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Беларусь +(375)257-127-884
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эл.почта: swf@nt-rt.ru || сайт: https://skf.nt-rt.ru/

319426 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	190 mm
Width	80 mm

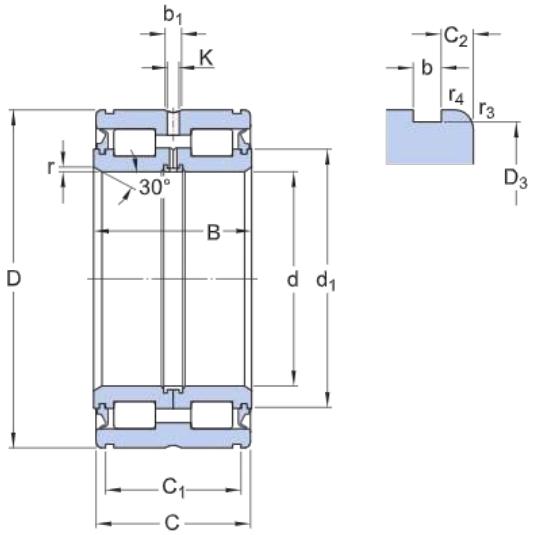
Performance

Basic dynamic load rating	446 kN
Basic static load rating	815 kN
Limiting speed	670 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Relubrication feature	With
Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

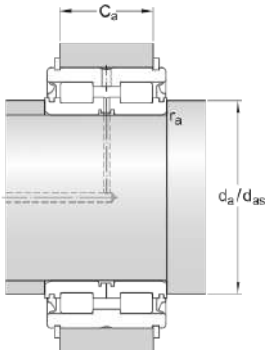


Dimensions

d	130 mm	Bore diameter
D	190 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 151 mm	Shoulder diameter inner ring
D_3	186 mm	Snap ring groove diameter at outer ring
C_1	71.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 137 mm	Abutment diameter shaft
d_a	147 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	63 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

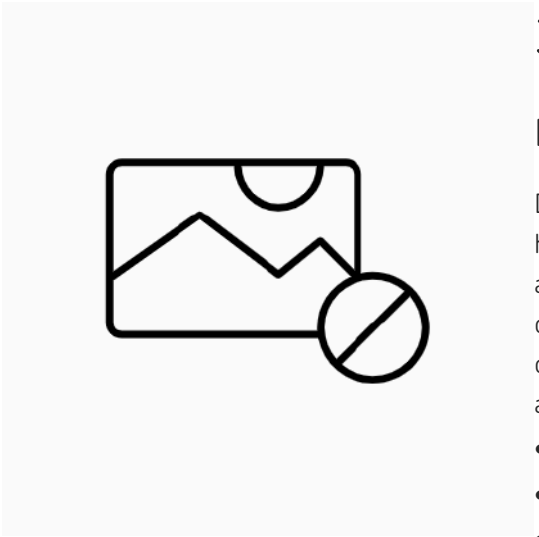
Basic dynamic load rating	C	446 kN
Basic static load rating	C_0	815 kN
Fatigue load limit	P_u	91.5 kN
Limiting speed		670 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	7.3 kg

Associated products

Snap ring Seeger	SW 190
Snap ring in accordance with DIN 471	190x4



314391

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	420 mm
Outside diameter	620 mm
Width	200 mm

Performance

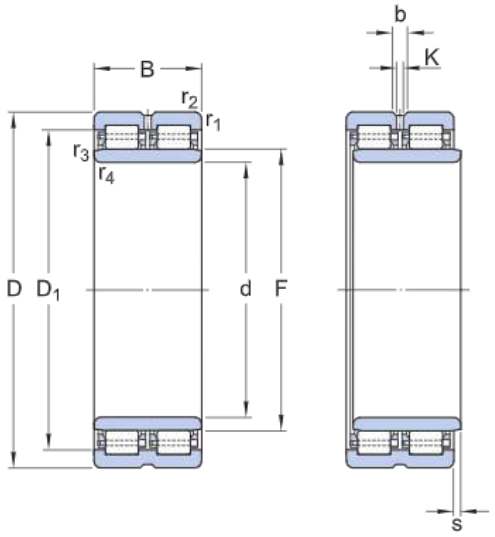
Basic dynamic load rating	3 470 kN
Basic static load rating	7 800 kN
Limiting speed	1 100 r/min
Reference speed	700 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C3
Relubrication feature	With
Sealing	Without

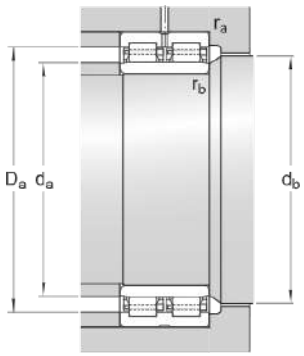
Technical Specification

Design variant/feature	NNU.3/C4W33WI



Dimensions

d	420 mm	Bore diameter
D	620 mm	Outside diameter
B	200 mm	Overall bearing width
D_1	≈ 550 mm	Shoulder diameter outer ring
F	473 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	6 mm	Diameter lubrication hole
$r_{1,2}$	min. 4 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 4 mm	Chamfer dimension inner ring
s	max. 4.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

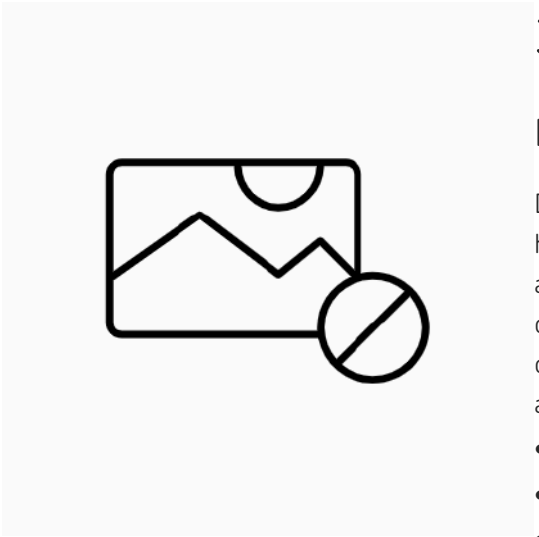
d_a	min. 436 mm	Abutment diameter spacer sleeve
d_a	max. 468 mm	Abutment diameter spacer sleeve
d_b	min. 478 mm	Abutment diameter shaft
D_a	max. 604 mm	Abutment diameter spacer sleeve / housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 470 kN
Basic static load rating	C_0	7 800 kN
Fatigue load limit	P_u	655 kN
Reference speed		700 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.29

Mass

Mass bearing	220 kg



314419

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	720 mm
Width	218 mm

Performance

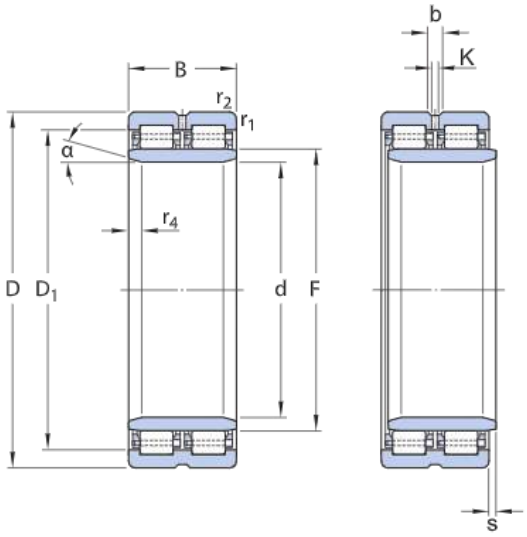
Basic dynamic load rating	4 730 kN
Basic static load rating	10 800 kN
Limiting speed	850 r/min
Reference speed	600 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C3
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.3/C3W33WI

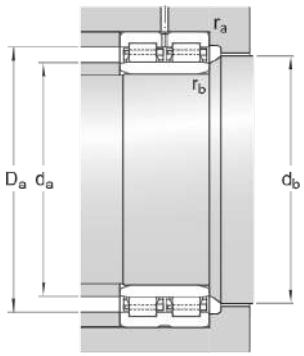


Dimensions

d	500 mm	Bore diameter
D	720 mm	Outside diameter
B	218 mm	Overall bearing width
D_1	≈ 650 mm	Shoulder diameter outer ring
F	554 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 6 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 13.5 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 3.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 520	mm	Abutment diameter spacer sleeve
d_a	max. 547	mm	Abutment diameter spacer sleeve
d_b	min. 559	mm	Abutment diameter shaft
D_a	max. 694	mm	Abutment diameter spacer sleeve / housing



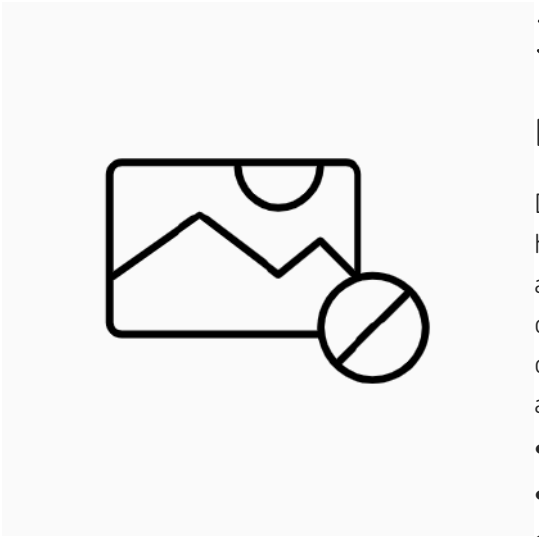
r_a max. 5 mm		Fillet radius
r_b max. 5 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	4 730 kN
Basic static load rating	C_0	10 800 kN
Fatigue load limit	P_u	815 kN
Reference speed		600 r/min
Limiting speed		850 r/min
Calculation factor	k_r	0.29

Mass

Mass bearing	299 kg



314420

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	750 mm
Outside diameter	1 000 mm
Width	250 mm

Performance

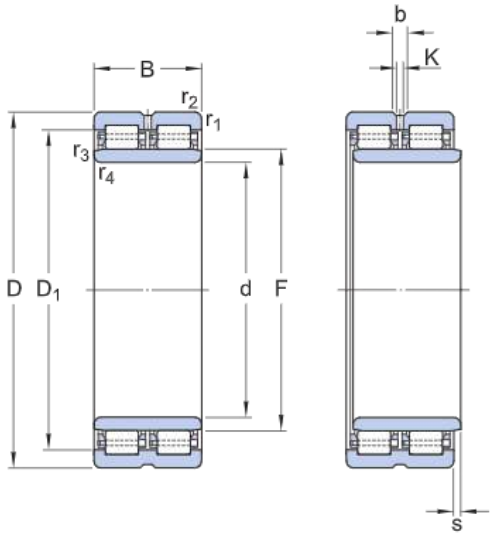
Basic dynamic load rating	6 160 kN
Basic static load rating	16 600 kN
Limiting speed	560 r/min
Reference speed	380 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.3/C4W33WI

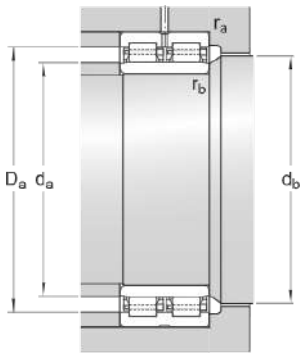


Dimensions

d	750 mm	Bore diameter
D	1 000 mm	Outside diameter
B	250 mm	Overall bearing width
D_1	≈ 916 mm	Shoulder diameter outer ring
F	816 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 6 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 6 mm	Chamfer dimension inner ring
s	max. 5.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 776 mm	Abutment diameter spacer sleeve
d_a	max. 807 mm	Abutment diameter spacer sleeve
d_b	min. 822 mm	Abutment diameter shaft
D_a	max. 974 mm	Abutment diameter spacer sleeve / housing
r_a	max. 5 mm	Fillet radius



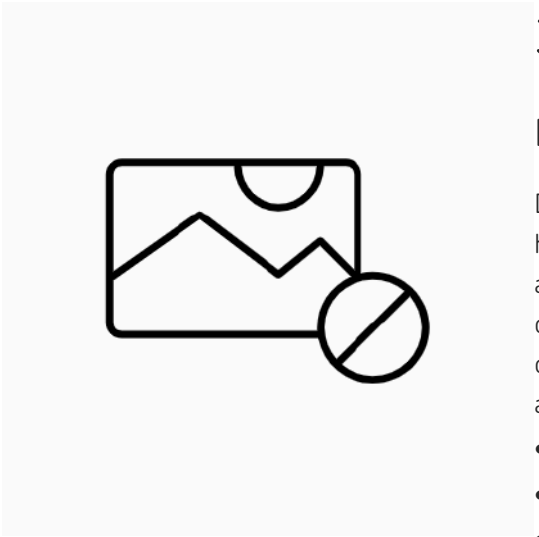
r_b max. 5 mm — Fillet radius

Calculation data

Basic dynamic load rating	C	6 160 kN
Basic static load rating	C_0	16 600 kN
Fatigue load limit	P_u	1 120 kN
Reference speed		380 r/min
Limiting speed		560 r/min
Calculation factor	k_r	0.22

Mass

Mass bearing	562 kg



314982

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	420 mm
Outside diameter	600 mm
Width	220 mm

Performance

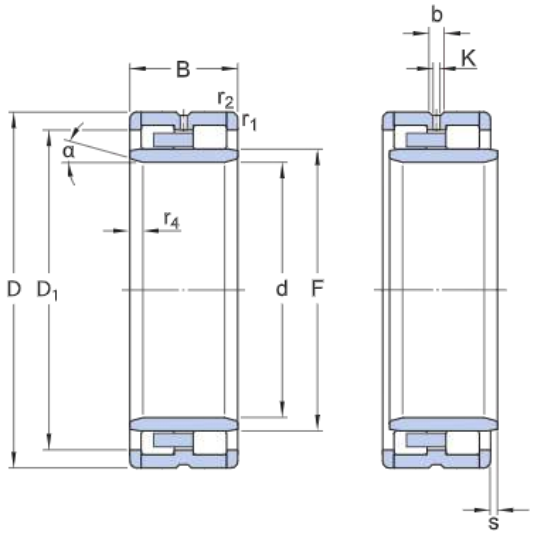
Basic dynamic load rating	3 580 kN
Basic static load rating	8 800 kN
Limiting speed	1 100 r/min
Reference speed	750 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C3
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.2/C4W33

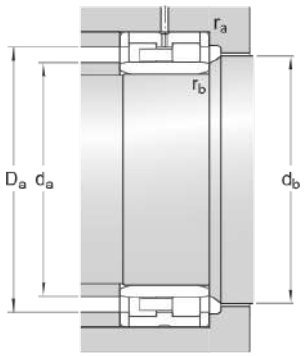


Dimensions

d	420 mm	Bore diameter
D	600 mm	Outside diameter
B	220 mm	Overall bearing width
D_1	≈ 540 mm	Shoulder diameter outer ring
F	470 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 2 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 8 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 3.6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 430 mm	Abutment diameter spacer sleeve
d_a	max. 467 mm	Abutment diameter spacer sleeve
d_b	min. 475 mm	Abutment diameter shaft
D_a	max. 590 mm	Abutment diameter spacer sleeve / housing
r_a	max. 2 mm	Fillet radius



r_b max. 2 mm

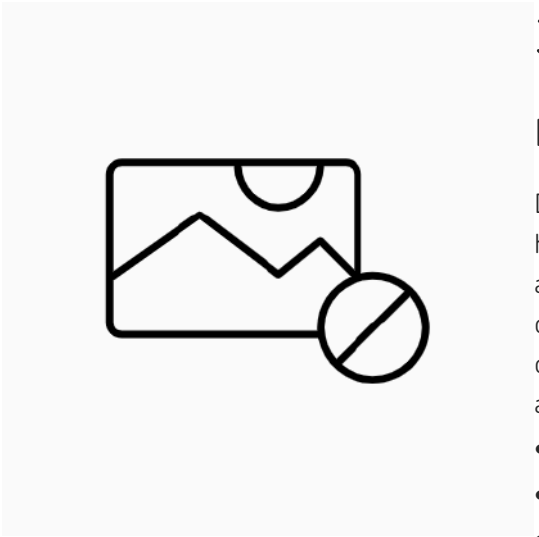
Fillet radius

Calculation data

Basic dynamic load rating	C	3 580 kN
Basic static load rating	C_0	8 800 kN
Fatigue load limit	P_u	720 kN
Reference speed		750 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.33

Mass

Mass bearing	206 kg



314987 B

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	560 mm
Width	205 mm

Performance

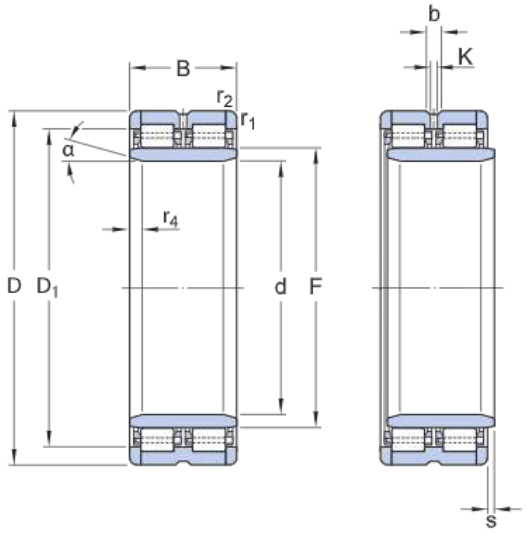
Basic dynamic load rating	3 140 kN
Basic static load rating	7 800 kN
Limiting speed	1 200 r/min
Reference speed	800 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.4/C4W33WI

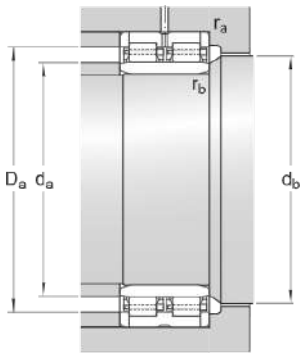


Dimensions

d	400 mm	Bore diameter
D	560 mm	Outside diameter
B	205 mm	Overall bearing width
D_1	≈ 509 mm	Shoulder diameter outer ring
F	445 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 2 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 13.6 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 2.7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 420 mm	Abutment diameter spacer sleeve
d_a	max. 438 mm	Abutment diameter spacer sleeve
d_b	min. 450 mm	Abutment diameter shaft
D_a	max. 550 mm	Abutment diameter spacer sleeve / housing



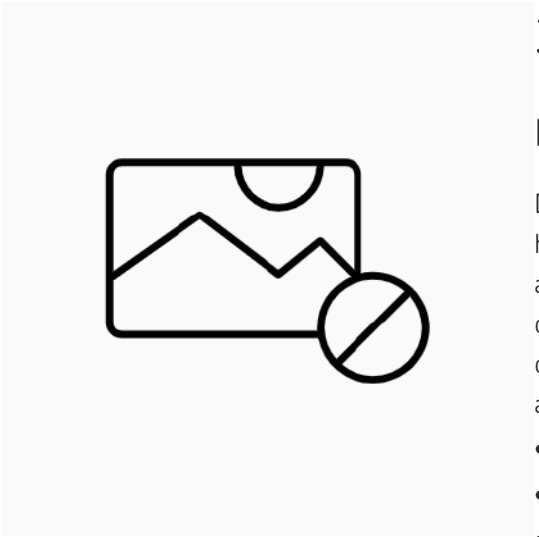
r_a max. 1.5 mm	Fillet radius
r_b max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 140 kN
Basic static load rating	C_0	7 800 kN
Fatigue load limit	P_u	655 kN
Reference speed		800 r/min
Limiting speed		1 200 r/min
Calculation factor	k_r	0.33

Mass

Mass bearing	160 kg



314987 C

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	560 mm
Width	205 mm

Performance

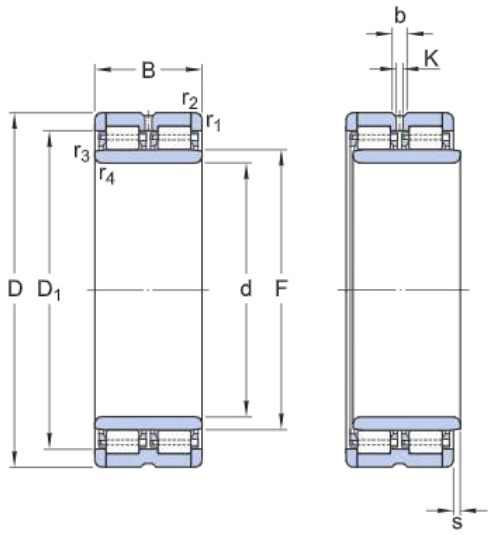
Basic dynamic load rating	3 140 kN
Basic static load rating	7 800 kN
Limiting speed	1 200 r/min
Reference speed	800 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

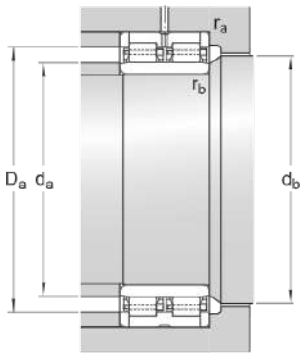
Technical Specification

Design variant/feature	NNU.4/C4W33WI



Dimensions

d	400 mm	Bore diameter
D	560 mm	Outside diameter
B	205 mm	Overall bearing width
D_1	≈ 509 mm	Shoulder diameter outer ring
F	445 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 2 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 2.7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

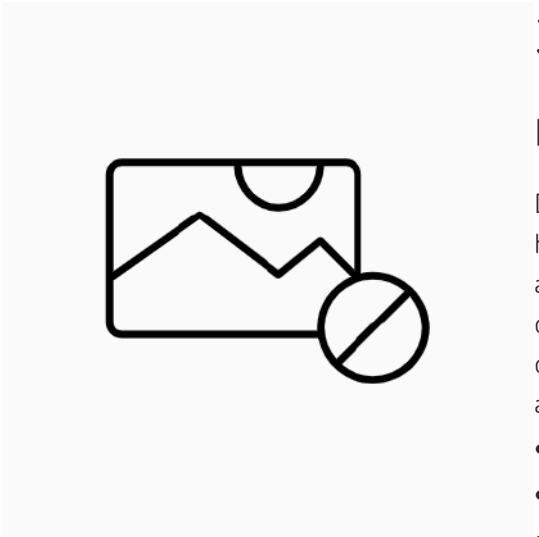
d_a	min. 420 mm	Abutment diameter spacer sleeve
d_a	max. 439 mm	Abutment diameter spacer sleeve
d_b	min. 450 mm	Abutment diameter shaft
D_a	max. 500 mm	Abutment diameter spacer sleeve / housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 140 kN
Basic static load rating	C_0	7 800 kN
Fatigue load limit	P_u	655 kN
Reference speed		800 r/min
Limiting speed		1 200 r/min
Calculation factor	k_r	0.33

Mass

Mass bearing	160 kg



315583 C

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	480 mm
Width	175 mm

Performance

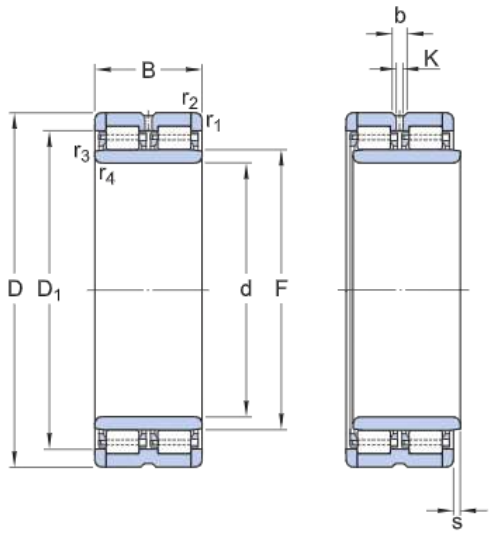
Basic dynamic load rating	2 460 kN
Basic static load rating	5 400 kN
Limiting speed	1 400 r/min
Reference speed	950 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C3
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.4/C3W33



Dimensions

d	320 mm	Bore diameter
D	480 mm	Outside diameter
B	175 mm	Overall bearing width
D_1	≈ 426 mm	Shoulder diameter outer ring
F	364 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 1.5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 4 mm	Chamfer dimension inner ring
s	max. 3.6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 336 mm	Abutment diameter spacer sleeve
d_a	max. 359 mm	Abutment diameter spacer sleeve
d_b	min. 368 mm	Abutment diameter shaft
D_a	max. 472 mm	Abutment diameter spacer sleeve / housing
r_a	max. 1.5 mm	Fillet radius

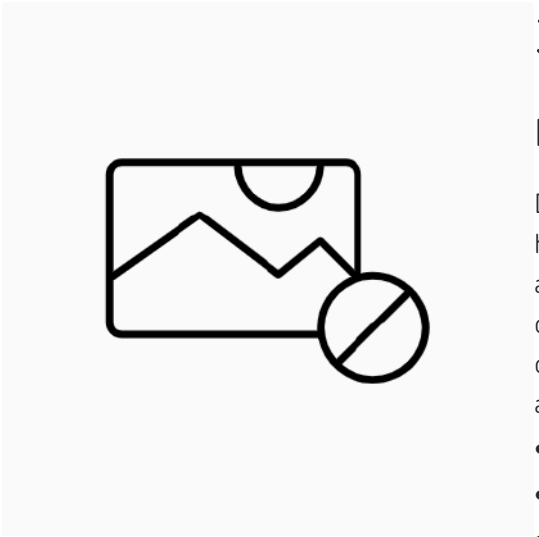
	r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 460 kN
Basic static load rating	C_0	5 400 kN
Fatigue load limit	P_u	510 kN
Reference speed		950 r/min
Limiting speed		1 400 r/min
Calculation factor	k_r	0.33

Mass

Mass bearing	115 kg



316019

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	410 mm
Outside diameter	600 mm
Width	220 mm

Performance

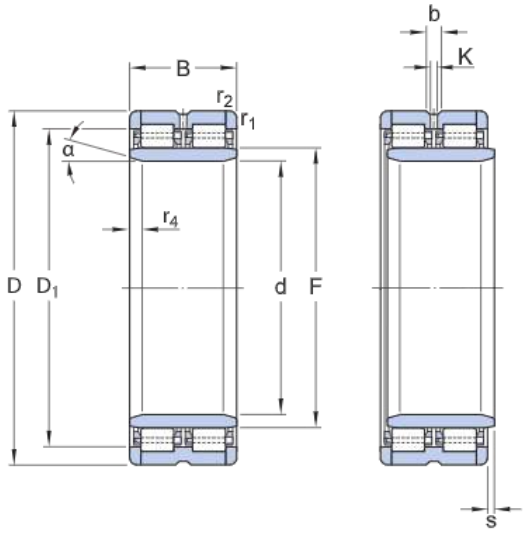
Basic dynamic load rating	3 800 kN
Basic static load rating	8 650 kN
Limiting speed	1 100 r/min
Reference speed	750 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.4/C4W33WI

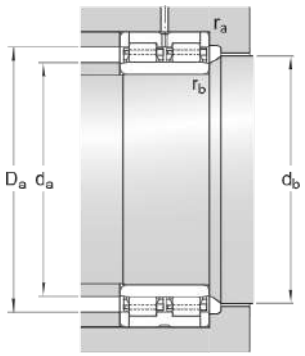


Dimensions

d	410 mm	Bore diameter
D	600 mm	Outside diameter
B	220 mm	Overall bearing width
D_1	≈ 540 mm	Shoulder diameter outer ring
F	460 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 13 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 6.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 430 mm	Abutment diameter spacer sleeve
d_a	max. 456 mm	Abutment diameter spacer sleeve
d_b	min. 465 mm	Abutment diameter shaft
D_a	max. 580 mm	Abutment diameter spacer sleeve / housing



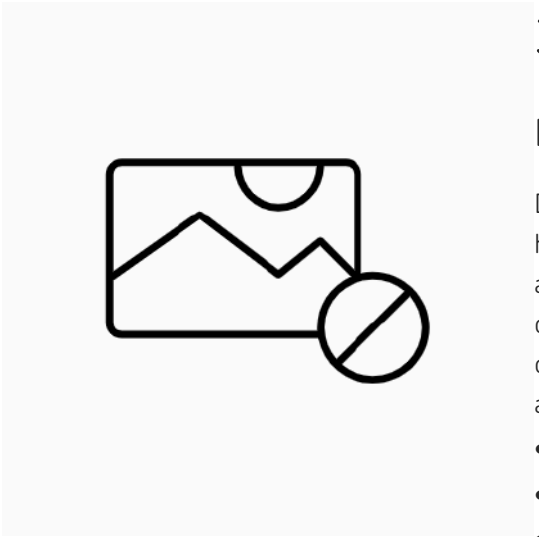
r_a max. 4 mm		Fillet radius
r_b max. 4 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	3 800 kN
Basic static load rating	C_0	8 650 kN
Fatigue load limit	P_u	720 kN
Reference speed		750 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.33

Mass

Mass bearing	215 kg



316077 A

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	440 mm
Outside diameter	620 mm
Width	225 mm

Performance

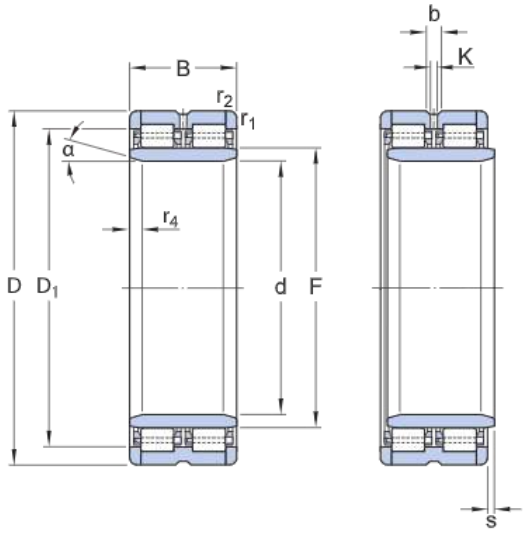
Basic dynamic load rating	3 910 kN
Basic static load rating	9 800 kN
Limiting speed	1 000 r/min
Reference speed	700 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.4/C4W33WI

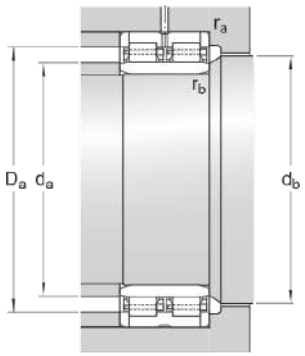


Dimensions

d	440 mm	Bore diameter
D	620 mm	Outside diameter
B	225 mm	Overall bearing width
D_1	≈ 557 mm	Shoulder diameter outer ring
F	487 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 2 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 12 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 2.7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 460 mm	Abutment diameter spacer sleeve
d_a	max. 480 mm	Abutment diameter spacer sleeve
d_b	min. 492 mm	Abutment diameter shaft
D_a	max. 610 mm	Abutment diameter spacer sleeve / housing



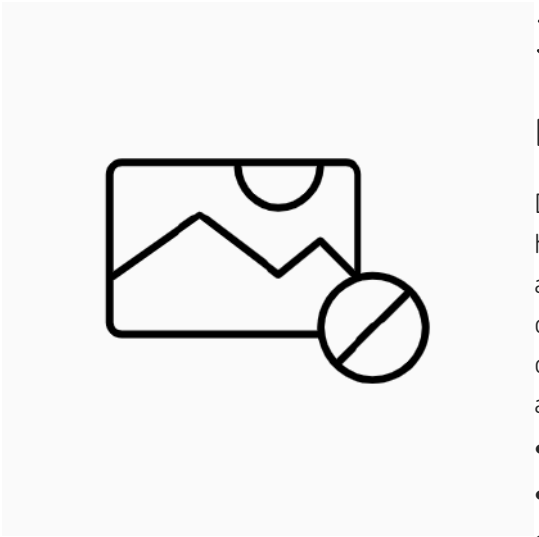
r_a max. 1.5 mm	Fillet radius
r_b max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 910 kN
Basic static load rating	C_0	9 800 kN
Fatigue load limit	P_u	800 kN
Reference speed		700 r/min
Limiting speed		1 000 r/min
Calculation factor	k_r	0.35

Mass

Mass bearing	217 kg



316115

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	550 mm
Outside diameter	800 mm
Width	260 mm

Performance

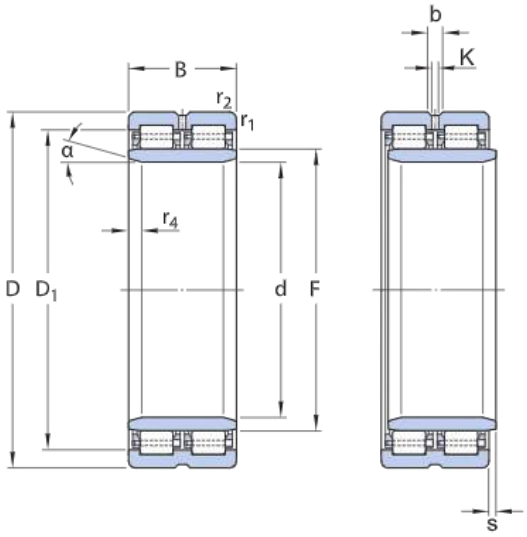
Basic dynamic load rating	5 830 kN
Basic static load rating	13 400 kN
Limiting speed	750 r/min
Reference speed	530 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C3
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.3/C3W33

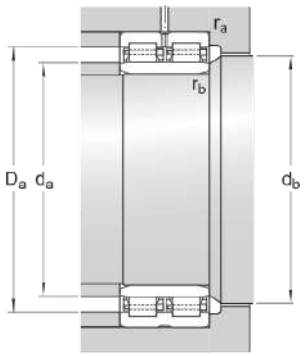


Dimensions

d	550 mm	Bore diameter
D	800 mm	Outside diameter
B	260 mm	Overall bearing width
D_1	≈ 721 mm	Shoulder diameter outer ring
F	612 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 6 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 10 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 6.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 576 mm	Abutment diameter spacer sleeve
d_a	max. 603 mm	Abutment diameter spacer sleeve
d_b	min. 617 mm	Abutment diameter shaft
D_a	max. 774 mm	Abutment diameter spacer sleeve / housing



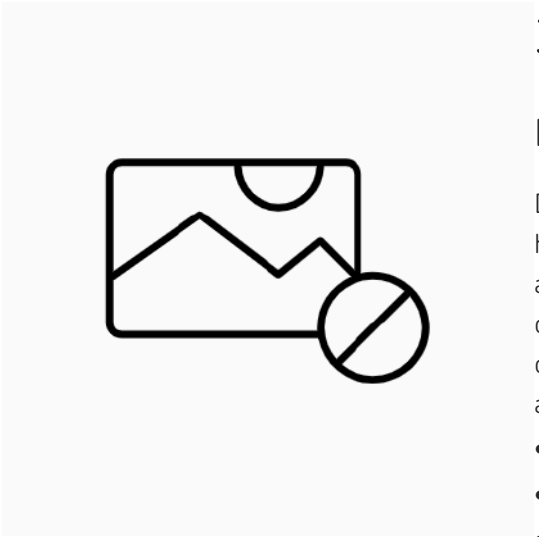
r_a max. 5 mm		Fillet radius
r_b max. 5 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	5 830 kN
Basic static load rating	C_0	13 400 kN
Fatigue load limit	P_u	980 kN
Reference speed		530 r/min
Limiting speed		750 r/min
Calculation factor	k_r	0.29

Mass

Mass bearing	448 kg



316189

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	480 mm
Outside diameter	700 mm
Width	260 mm

Performance

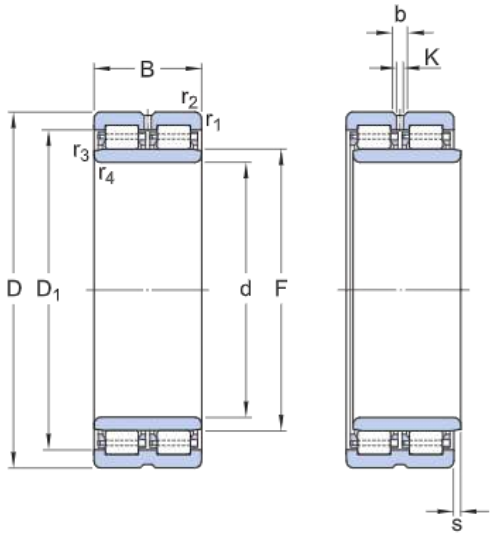
Basic dynamic load rating	5 390 kN
Basic static load rating	12 500 kN
Limiting speed	900 r/min
Reference speed	600 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C3
Relubrication feature	With
Sealing	Without

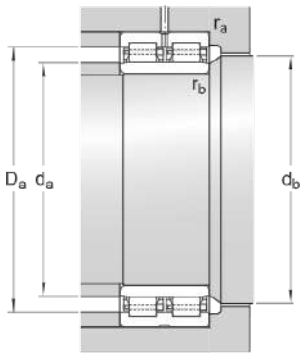
Technical Specification

Design variant/feature	NNU.3/C3W33



Dimensions

d	480 mm	Bore diameter
D	700 mm	Outside diameter
B	260 mm	Overall bearing width
D_1	≈ 631 mm	Shoulder diameter outer ring
F	535 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 6 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 6 mm	Chamfer dimension inner ring
s	max. 4.1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

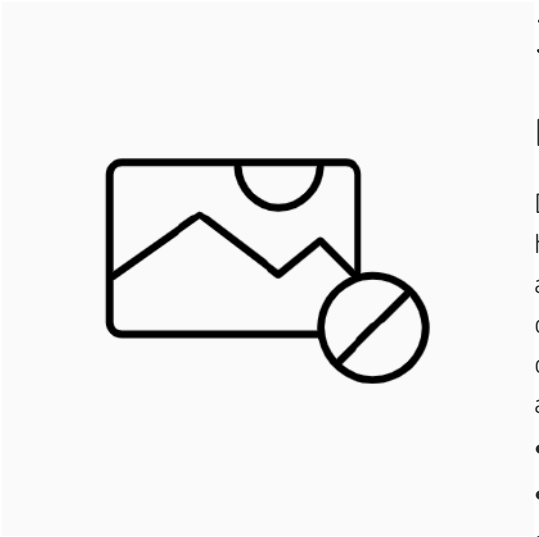
d_a	min. 506 mm	Abutment diameter spacer sleeve
d_a	max. 527 mm	Abutment diameter spacer sleeve
d_b	min. 540 mm	Abutment diameter shaft
D_a	max. 674 mm	Abutment diameter spacer sleeve / housing
r_a	max. 5 mm	Fillet radius
r_b	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	5 390 kN
Basic static load rating	C_0	12 500 kN
Fatigue load limit	P_u	950 kN
Reference speed		600 r/min
Limiting speed		900 r/min
Calculation factor	k_r	0.35

Mass

Mass bearing	348 kg



316739 A

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	460 mm
Outside diameter	650 mm
Width	235 mm

Performance

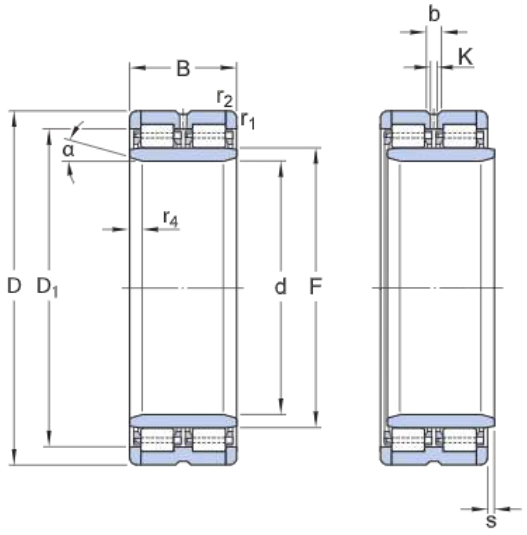
Basic dynamic load rating	4 400 kN
Basic static load rating	11 200 kN
Limiting speed	1 000 r/min
Reference speed	670 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.4/C4W33WI

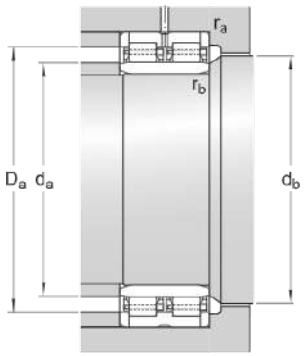


Dimensions

d	460 mm	Bore diameter
D	650 mm	Outside diameter
B	235 mm	Overall bearing width
D_1	≈ 589 mm	Shoulder diameter outer ring
F	509 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 4 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 12 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 3.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 480 mm	Abutment diameter spacer sleeve
d_a	max. 502 mm	Abutment diameter spacer sleeve
d_b	min. 514 mm	Abutment diameter shaft
D_a	max. 636 mm	Abutment diameter spacer sleeve / housing



r_a max. 4 mm	Fillet radius
r_b max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 400 kN
Basic static load rating	C_0	11 200 kN
Fatigue load limit	P_u	900 kN
Reference speed		670 r/min
Limiting speed		1 000 r/min
Calculation factor	k_r	0.36

Mass

Mass bearing	260 kg

319428 DA-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	200 mm
Width	80 mm

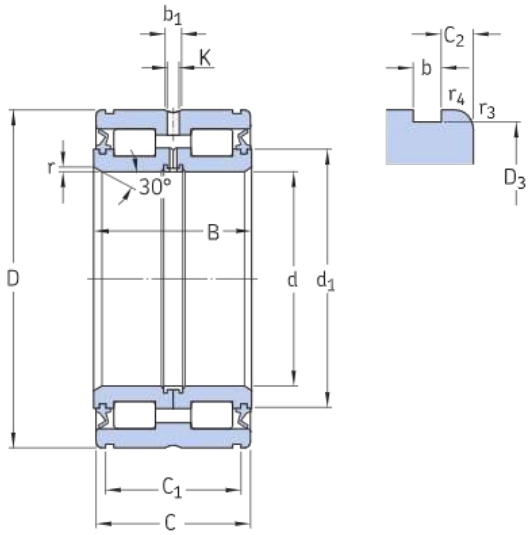
Performance

Basic dynamic load rating	468 kN
Basic static load rating	865 kN
Limiting speed	630 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Relubrication feature	With
Sealing	Seal on both sides

Technical Specification

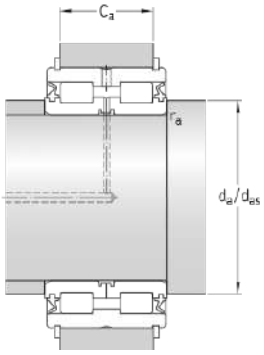


Dimensions

d	140 mm	Bore diameter
D	200 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 160 mm	Shoulder diameter inner ring
D_3	196 mm	Snap ring groove diameter at outer ring
C_1	71.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 147 mm	Abutment diameter shaft
d_a	156 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	63 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	468 kN
Basic static load rating	C_0	865 kN
Fatigue load limit	P_u	96.5 kN
Limiting speed		630 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	8 kg

Associated products

Snap ring Seeger	SW 200
Snap ring in accordance with DIN 471	200x4

319430 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	210 mm
Width	80 mm

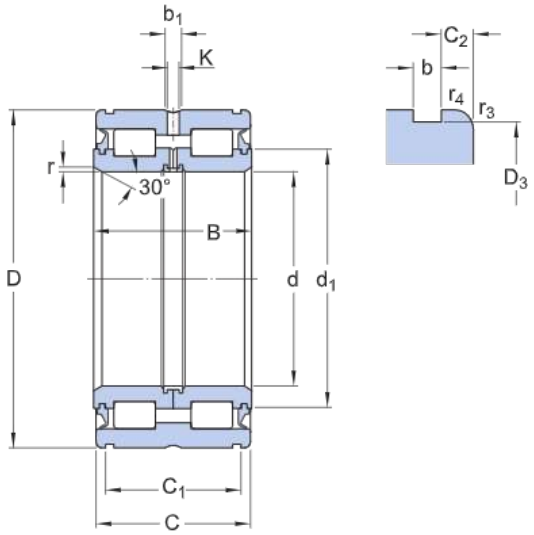
Performance

Basic dynamic load rating	484 kN
Basic static load rating	915 kN
Limiting speed	600 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Technical Specification

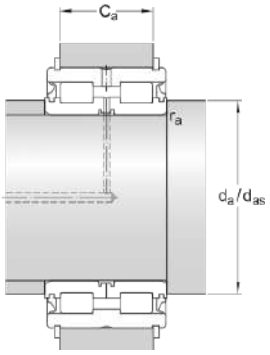


Dimensions

d	150 mm	Bore diameter
D	210 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 170 mm	Shoulder diameter inner ring
D_3	206 mm	Snap ring groove diameter at outer ring
C_1	71.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 157 mm	Abutment diameter shaft
d_a	166 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	61 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	484 kN
Basic static load rating	C_0	915 kN
Fatigue load limit	P_u	100 kN
Limiting speed		600 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	8.4 kg

Associated products

Snap ring Seeger	SW 210
Snap ring in accordance with DIN 471	210x5

319432 DA-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	220 mm
Width	80 mm

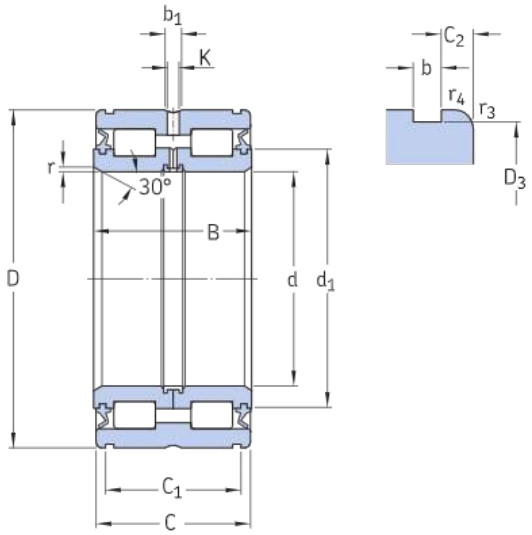
Performance

Basic dynamic load rating	501 kN
Basic static load rating	1 000 kN
Limiting speed	530 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Relubrication feature	With
Sealing	Seal on both sides

Technical Specification

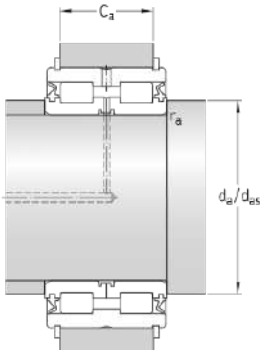


Dimensions

d	160 mm	Bore diameter
D	220 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 184 mm	Shoulder diameter inner ring
D_3	216 mm	Snap ring groove diameter at outer ring
C_1	71.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 167 mm	Abutment diameter shaft
d_a	180 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	61 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	501 kN
Basic static load rating	C_0	1 000 kN
Fatigue load limit	P_u	106 kN
Limiting speed		530 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	8.8 kg

Associated products

Snap ring Seeger	SW 220
Snap ring in accordance with DIN 471	220x5

319434 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	230 mm
Width	80 mm

Performance

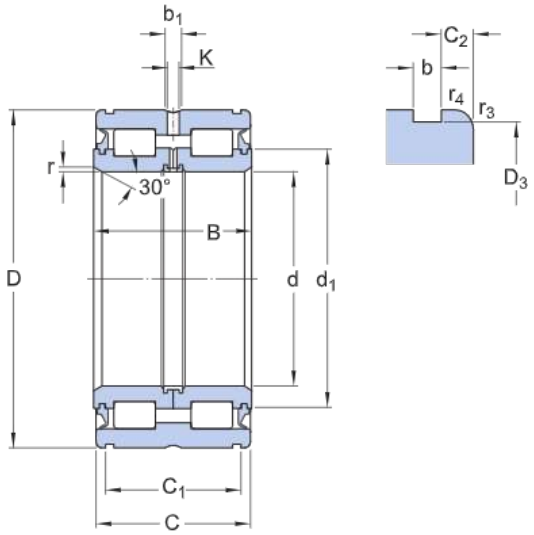
Basic dynamic load rating	512 kN
Basic static load rating	1 060 kN
Limiting speed	530 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

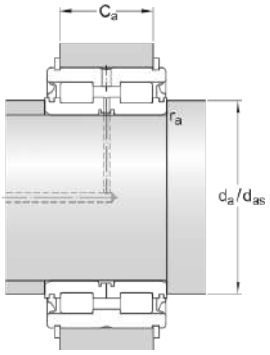


Dimensions

d	170 mm	Bore diameter
D	230 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 194 mm	Shoulder diameter inner ring
D_3	226 mm	Snap ring groove diameter at outer ring
C_1	71.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 177 mm	Abutment diameter shaft
d_a	190 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	61 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	512 kN
Basic static load rating	C_0	1 060 kN
Fatigue load limit	P_u	110 kN
Limiting speed		530 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	9.2 kg

Associated products

Snap ring Seeger	SW 230
Snap ring in accordance with DIN 471	230x5

319436 DA-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	240 mm
Width	80 mm

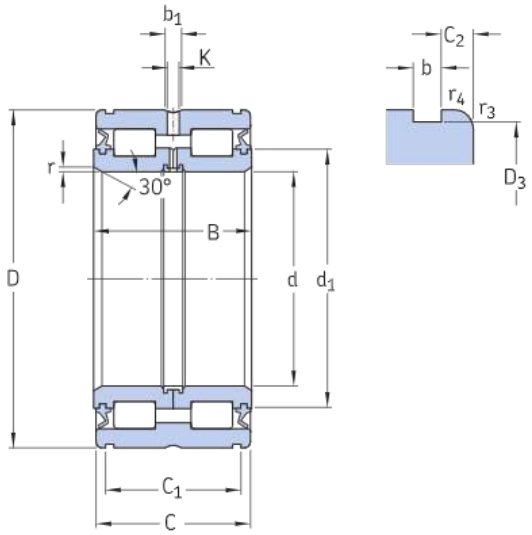
Performance

Basic dynamic load rating	528 kN
Basic static load rating	1 100 kN
Limiting speed	480 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Relubrication feature	With
Sealing	Seal on both sides

Technical Specification

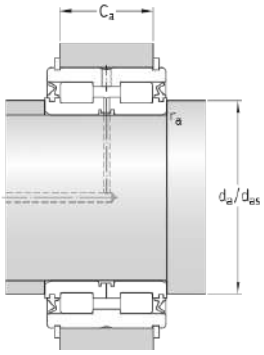


Dimensions

d	180 mm	Bore diameter
D	240 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 203 mm	Shoulder diameter inner ring
D_3	236 mm	Snap ring groove diameter at outer ring
C_1	71.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 187 mm	Abutment diameter shaft
d_a	199 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	61 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	528 kN
Basic static load rating	C_0	1 100 kN
Fatigue load limit	P_u	114 kN
Limiting speed		480 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	9.8 kg

Associated products

Snap ring Seeger	SW 240
Snap ring in accordance with DIN 471	240x5

319438 DA-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	260 mm
Width	80 mm

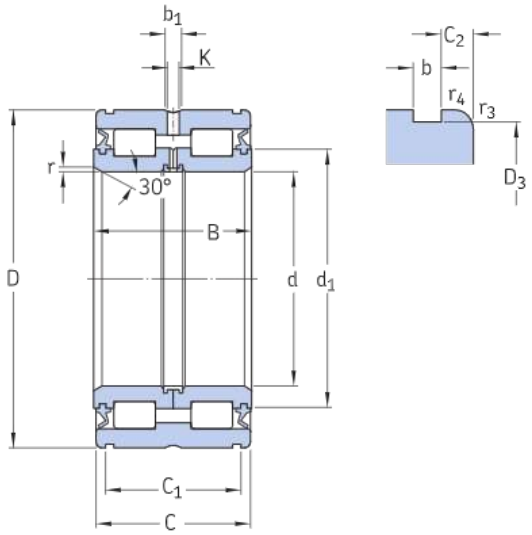
Performance

Basic dynamic load rating	550 kN
Basic static load rating	1 180 kN
Limiting speed	450 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Relubrication feature	With
Sealing	Seal on both sides

Technical Specification

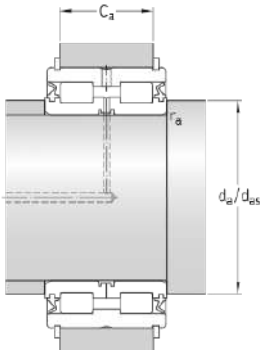


Dimensions

d	190 mm	Bore diameter
D	260 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 218 mm	Shoulder diameter inner ring
D_3	254 mm	Snap ring groove diameter at outer ring
C_1	73.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 197 mm	Abutment diameter shaft
d_a	214 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	63 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	550 kN
Basic static load rating	C_0	1 180 kN
Fatigue load limit	P_u	120 kN
Limiting speed		450 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	12.7 kg

Associated products

Snap ring Seeger	SW 260
Snap ring in accordance with DIN 471	260x5

319440 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	270 mm
Width	80 mm

Performance

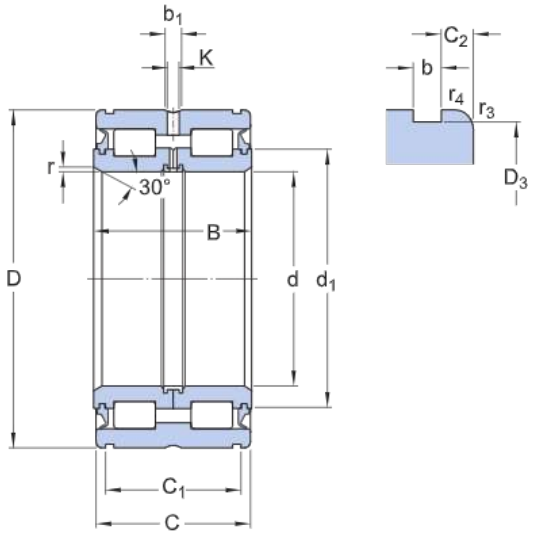
Basic dynamic load rating	627 kN
Basic static load rating	1 370 kN
Limiting speed	500 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

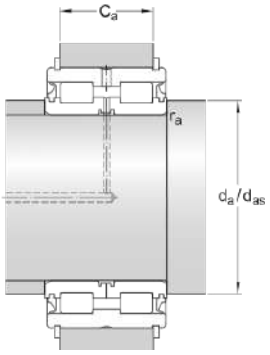


Dimensions

d	200 mm	Bore diameter
D	270 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 227.5 mm	Shoulder diameter inner ring
D_3	264 mm	Snap ring groove diameter at outer ring
C_1	73.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 207 mm	Abutment diameter shaft
d_a	223 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	63 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	627 kN
Basic static load rating	C_0	1 370 kN
Fatigue load limit	P_u	137 kN
Limiting speed		500 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	13.1 kg

Associated products

Snap ring Seeger	SW 270
Snap ring in accordance with DIN 471	270x5

319444 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	300 mm
Width	95 mm

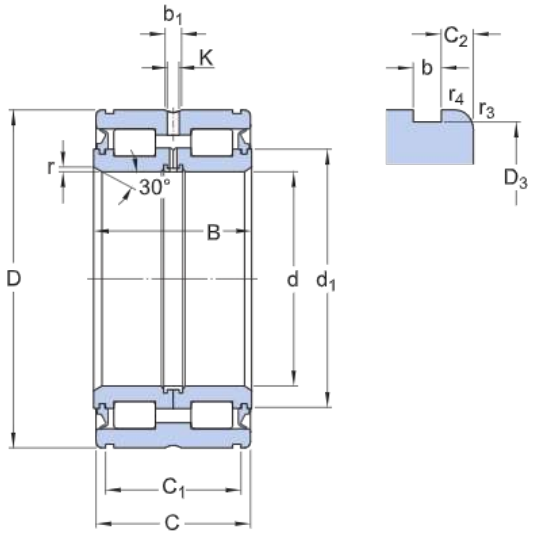
Performance

Basic dynamic load rating	880 kN
Basic static load rating	1 860 kN
Limiting speed	380 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Relubrication feature	With
Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

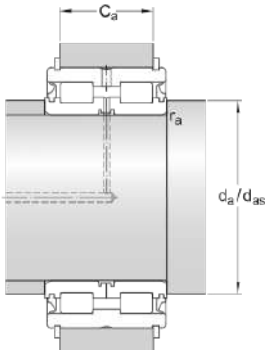


Dimensions

d	220 mm	Bore diameter
D	300 mm	Outside diameter
B	95 mm	Width
C	94 mm	Outer ring width (sealed bearing)
d_1	≈ 250 mm	Shoulder diameter inner ring
D_3	295 mm	Snap ring groove diameter at outer ring
C_1	83.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	5.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	6 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 1 mm	Chamfer dimension

Abutment dimensions

d_a	min. 227 mm	Abutment diameter shaft
d_a	246 mm	Abutment diameter shaft
C_a	75 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	73 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	880 kN
Basic static load rating	C_0	1 860 kN
Fatigue load limit	P_u	186 kN
Limiting speed		380 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	18.9 kg

Associated products

Snap ring Seeger	SW 300
Snap ring in accordance with DIN 471	300x5

319448 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	320 mm
Width	95 mm

Performance

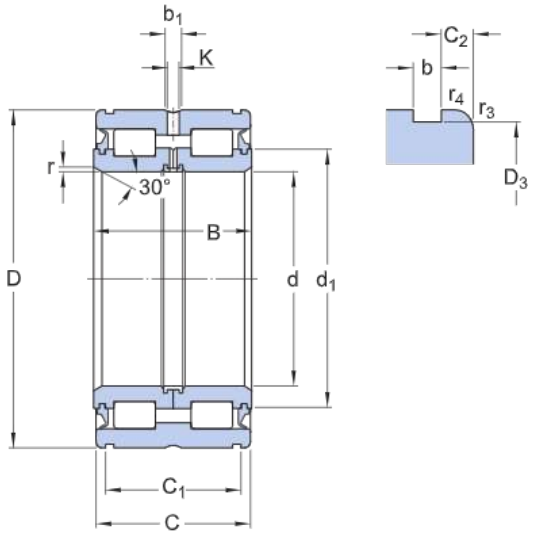
Basic dynamic load rating	952 kN
Basic static load rating	2 040 kN
Limiting speed	360 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

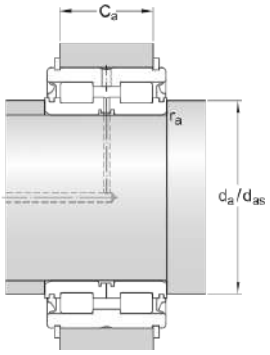


Dimensions

d	240 mm	Bore diameter
D	320 mm	Outside diameter
B	95 mm	Width
C	94 mm	Outer ring width (sealed bearing)
d_1	≈ 269.2 mm	Shoulder diameter inner ring
D_3	314 mm	Snap ring groove diameter at outer ring
C_1	83.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	5.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	6.3 mm	Width snap ring groove outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	6 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 1 mm	Chamfer dimension

Abutment dimensions

d_a	min. 247 mm	Abutment diameter shaft
d_a	265 mm	Abutment diameter shaft
C_a	75 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	71 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	952 kN
Basic static load rating	C_0	2 040 kN
Fatigue load limit	P_u	200 kN
Limiting speed		360 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	20.1 kg

Associated products

Snap ring Seeger	SW 320
Snap ring in accordance with DIN 471	320x6

319452 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	340 mm
Width	95 mm

Performance

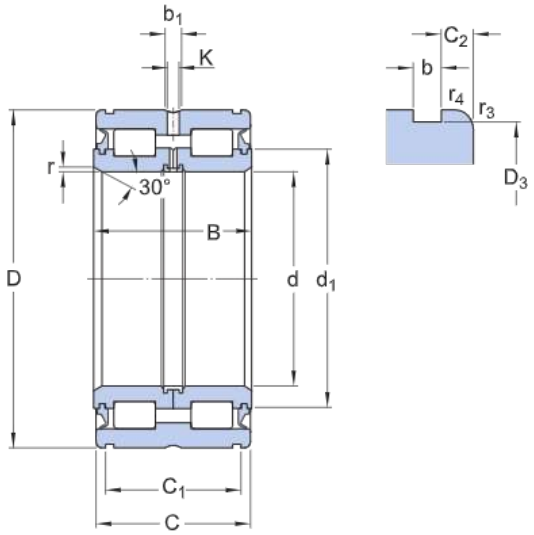
Basic dynamic load rating	990 kN
Basic static load rating	2 160 kN
Limiting speed	340 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

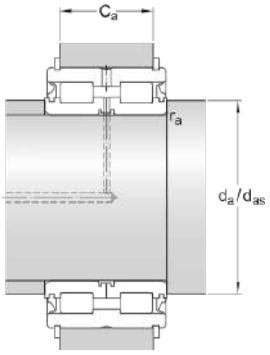


Dimensions

d	260 mm	Bore diameter
D	340 mm	Outside diameter
B	95 mm	Width
C	94 mm	Outer ring width (sealed bearing)
d_1	≈ 291.2 mm	Shoulder diameter inner ring
D_3	334 mm	Snap ring groove diameter at outer ring
C_1	83.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	5.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	6.3 mm	Width snap ring groove outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	6 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 1 mm	Chamfer dimension

Abutment dimensions

d_a	min. 267 mm	Abutment diameter shaft
d_a	286 mm	Abutment diameter shaft
C_a	75 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	71 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

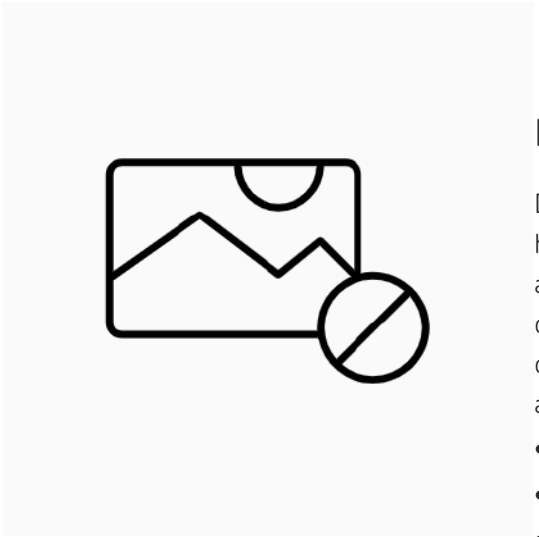
Basic dynamic load rating	C	990 kN
Basic static load rating	C_0	2 160 kN
Fatigue load limit	P_u	212 kN
Limiting speed		340 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	22 kg

Associated products

Snap ring Seeger	SW 340
Snap ring in accordance with DIN 471	340x6



BC2-8004/HA1

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	460 mm
Outside diameter	780 mm
Width	280 mm

Performance

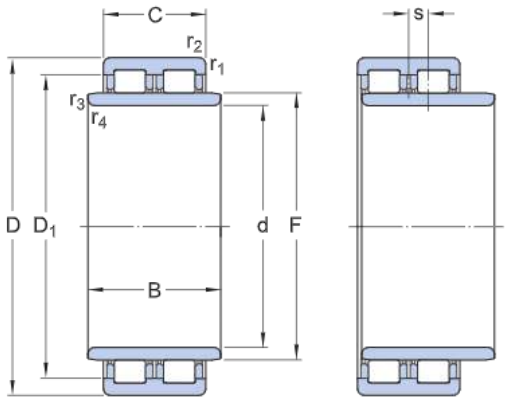
Basic dynamic load rating	5 610 kN
Basic static load rating	10 400 kN
Limiting speed	850 r/min
Reference speed	560 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Inner ring extension	On both sides
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	2
Relubrication feature	Without
Sealing	Without

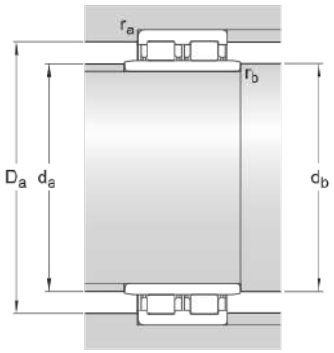
Technical Specification

Design variant/feature	NNUB.4/C4



Dimensions

d	460 mm	Bore diameter
D	780 mm	Outside diameter
B	280 mm	Overall bearing width
C	250 mm	Width outer ring
D_1	≈ 685 mm	Shoulder diameter outer ring
F	543 mm	Raceway diameter inner ring
$r_{1,2}$	min. 7.5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension inner ring
s	max. 30 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

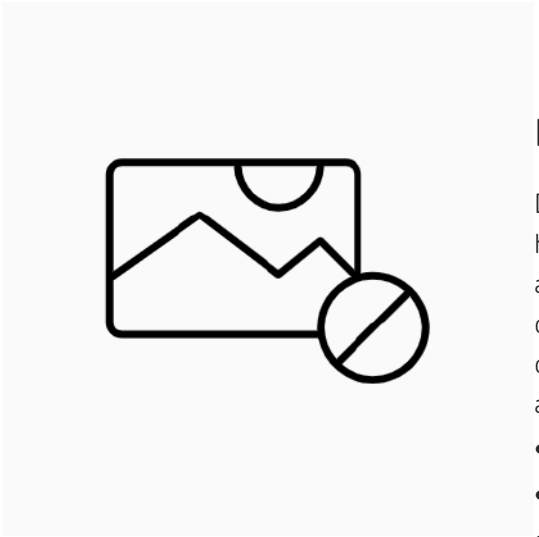
d_a	min. 493 mm	Abutment diameter spacer sleeve
d_a	max. 539 mm	Abutment diameter spacer sleeve
d_b	min. 548 mm	Abutment diameter shaft
D_a	max. 743 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	5 610 kN
Basic static load rating	C_0	10 400 kN
Fatigue load limit	P_u	780 kN
Reference speed		560 r/min
Limiting speed		850 r/min
Calculation factor	k_r	0.26

Mass

Mass bearing	540 kg



BC2-8005/HB1

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	600 mm
Outside diameter	820 mm
Width	365 mm

Performance

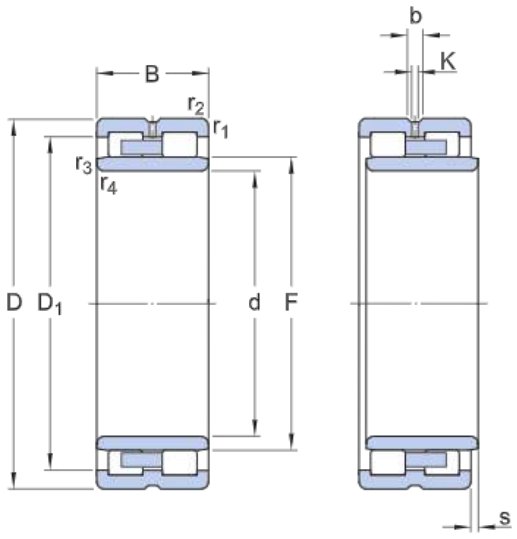
Basic dynamic load rating	7 810 kN
Basic static load rating	21 200 kN
Limiting speed	700 r/min
Reference speed	480 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU/CNW33

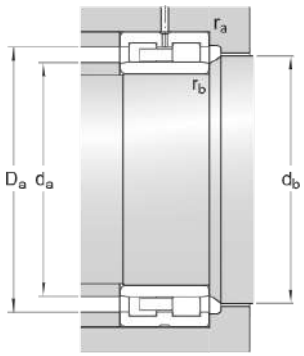


Dimensions

d	600 mm	Bore diameter
D	820 mm	Outside diameter
B	365 mm	Overall bearing width
D_1	≈ 755 mm	Shoulder diameter outer ring
F	655 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 620	mm	Abutment diameter spacer sleeve
d_a	max. 651	mm	Abutment diameter spacer sleeve
d_b	min. 661	mm	Abutment diameter shaft
D_a	max. 800	mm	Abutment diameter spacer sleeve / housing



r_a max. 4 mm		Fillet radius
r_b max. 4 mm		Fillet radius

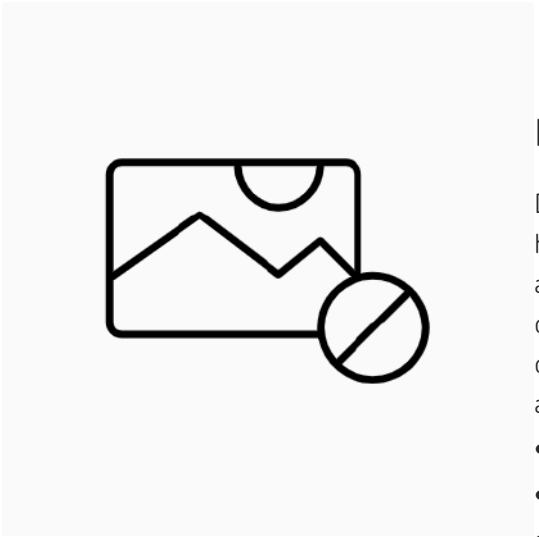
Calculation data

Basic dynamic load rating	C	7 810 kN
Basic static load rating	C_0	21 200 kN
Fatigue load limit	P_u	1 530 kN
Reference speed		480 r/min
Limiting speed		700 r/min
Calculation factor	k_r	0.41

Mass

Mass bearing	577 kg

BC2-8022/HA1



Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	950 mm
Outside diameter	1 360 mm
Width	420 mm

Performance

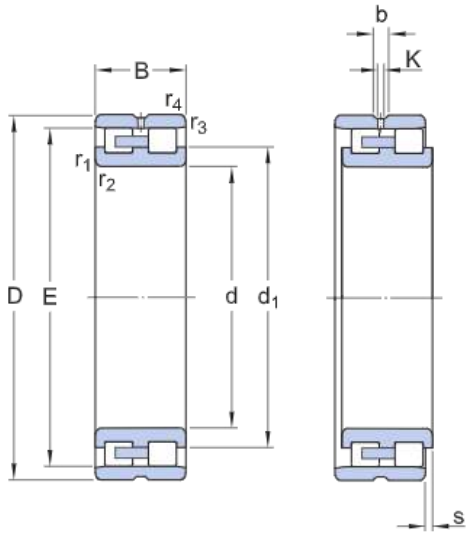
Basic dynamic load rating	14 000 kN
Basic static load rating	33 500 kN
Limiting speed	360 r/min
Reference speed	260 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	C3
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NN/W33

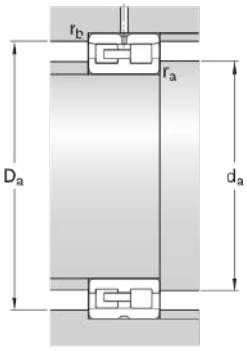


Dimensions

d	950 mm	Bore diameter
D	1 360 mm	Outside diameter
B	420 mm	Overall bearing width
d_1	≈ 1 092 mm	Shoulder diameter inner ring
E	1 279 mm	Raceway diameter outer ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 7.5 mm	Chamfer dimension inner ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension outer ring
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 984 mm	Abutment diameter spacer sleeve
D_a	min. 1 290 mm	Abutment diameter spacer sleeve / housing
D_a	max. 1 326	Abutment diameter spacer sleeve /



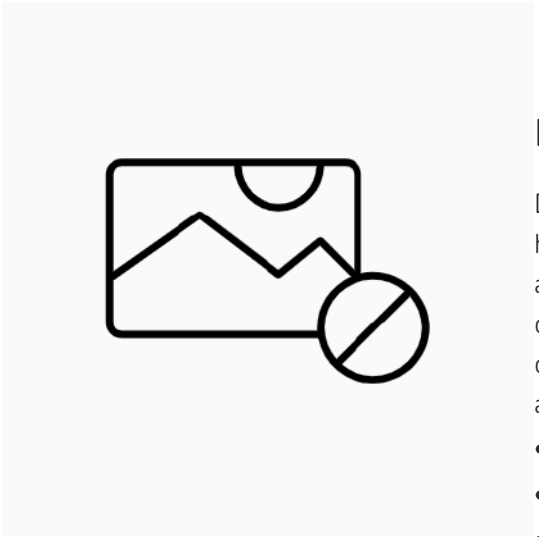
	mm	housing
r_a	max. 6 mm	Fillet radius
r_b	max. 6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	14 000 kN
Basic static load rating	C_0	33 500 kN
Fatigue load limit	P_u	2 080 kN
Reference speed		260 r/min
Limiting speed		360 r/min
Calculation factor	k_r	0.25

Mass

Mass bearing	1 900 kg



BC2-8074/HA5

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	690 mm
Outside diameter	980 mm
Width	365 mm

Performance

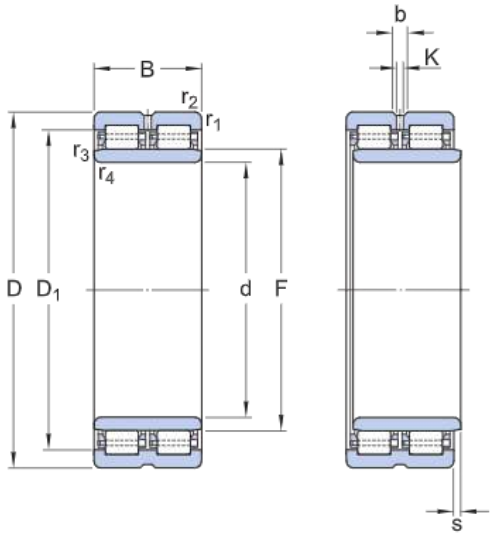
Basic dynamic load rating	10 500 kN
Basic static load rating	27 000 kN
Limiting speed	600 r/min
Reference speed	400 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.3/CNW33

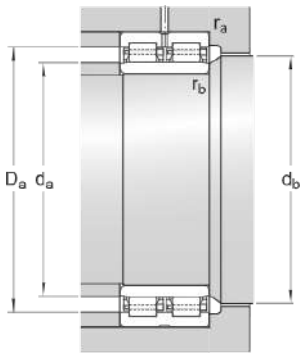


Dimensions

d	690 mm	Bore diameter
D	980 mm	Outside diameter
B	365 mm	Overall bearing width
D_1	≈ 894 mm	Shoulder diameter outer ring
F	759 mm	Raceway diameter inner ring
b	25.3 mm	Width of annular groove
K	15 mm	Diameter lubrication hole
$r_{1,2}$	min. 7.5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension inner ring
s	max. 9.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 718 mm	Abutment diameter spacer sleeve
d_a	max. 750 mm	Abutment diameter spacer sleeve
d_b	min. 785 mm	Abutment diameter shaft
D_a	max. 952 mm	Abutment diameter spacer sleeve / housing
r_a	max. 6 mm	Fillet radius



r_b max. 6 mm — Fillet radius

Calculation data

Basic dynamic load rating	C	10 500 kN
Basic static load rating	C_0	27 000 kN
Fatigue load limit	P_u	1 830 kN
Reference speed		400 r/min
Limiting speed		600 r/min
Calculation factor	k_r	0.38

Mass

Mass bearing	1 000 kg

BC2B 316521

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	440 mm
Outside diameter	640 mm
Width	230 mm

Performance

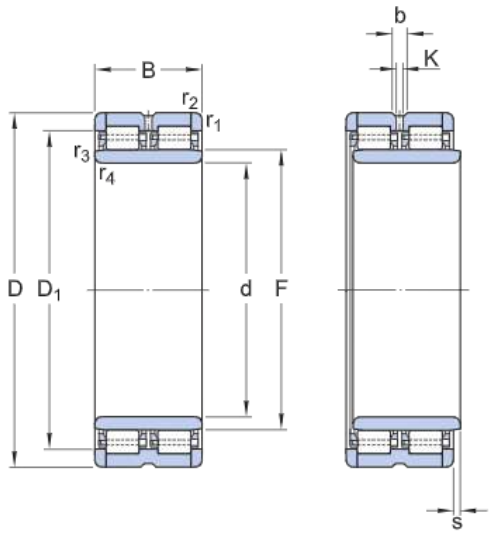
Basic dynamic load rating	4 570 kN
Basic static load rating	9 800 kN
Limiting speed	1 000 r/min
Reference speed	850 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

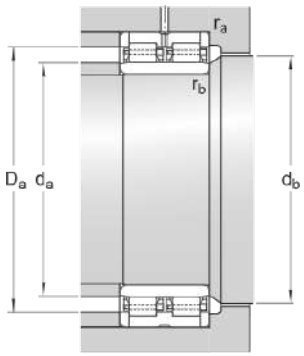
Technical Specification

Design variant/feature	NNU.4/W33W



Dimensions

d	440 mm	Bore diameter
D	640 mm	Outside diameter
B	230 mm	Overall bearing width
D_1	≈ 578 mm	Shoulder diameter outer ring
F	482 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 6 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 6 mm	Chamfer dimension inner ring
s	max. 5.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

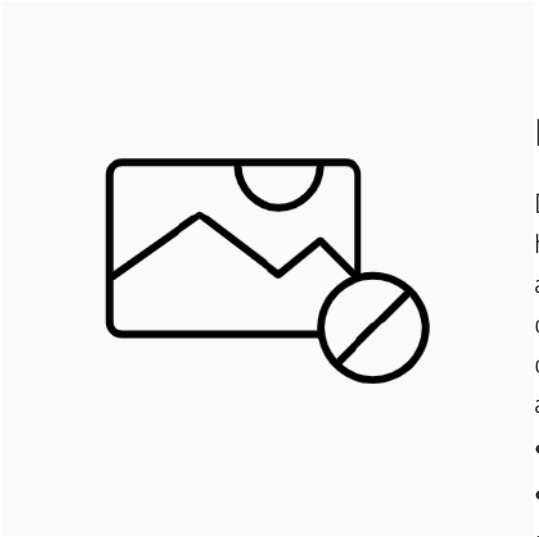
d_a	min. 466 mm	Abutment diameter spacer sleeve
d_a	max. 475 mm	Abutment diameter spacer sleeve
d_b	min. 487 mm	Abutment diameter shaft
D_a	max. 614 mm	Abutment diameter spacer sleeve / housing
r_a	max. 5 mm	Fillet radius
r_b	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 570 kN
Basic static load rating	C_0	9 800 kN
Fatigue load limit	P_u	780 kN
Reference speed		850 r/min
Limiting speed		1 000 r/min
Calculation factor	k_r	0.33

Mass

Mass bearing	250 kg



BC2B 319878

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	350 mm
Outside diameter	520 mm
Width	150 mm

Performance

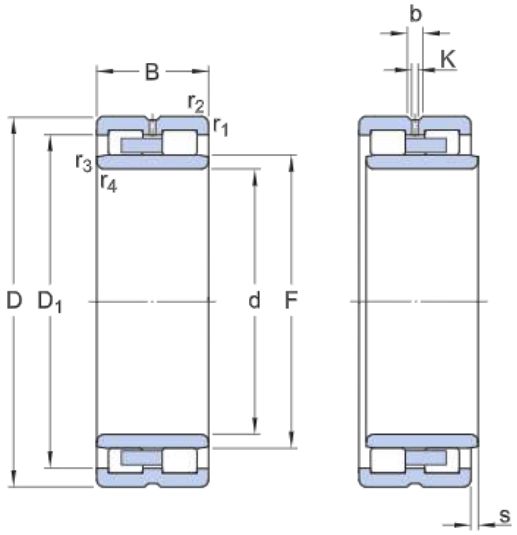
Basic dynamic load rating	2 120 kN
Basic static load rating	4 500 kN
Limiting speed	1 300 r/min
Reference speed	850 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C2
Relubrication feature	With
Sealing	Without

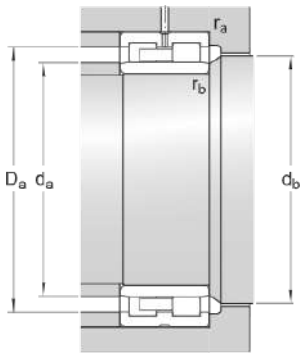
Technical Specification

Design variant/feature	NNU/W33



Dimensions

d	350 mm	Bore diameter
D	520 mm	Outside diameter
B	150 mm	Overall bearing width
D_1	≈ 468 mm	Shoulder diameter outer ring
F	401 mm	Raceway diameter inner ring
b	11.6 mm	Width of annular groove
K	6 mm	Diameter lubrication hole
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 4.9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

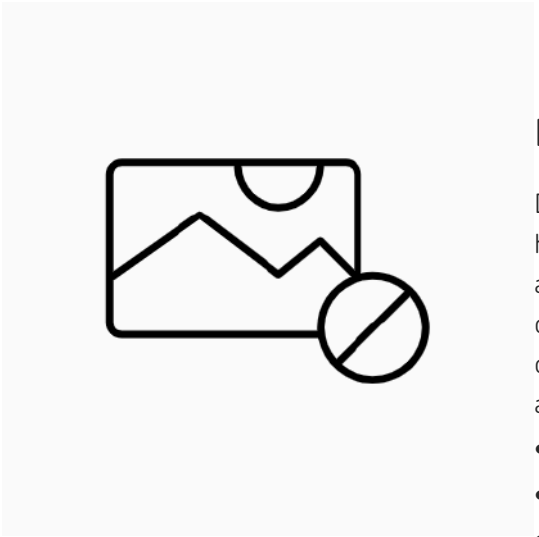
d_a	min. 370 mm	Abutment diameter spacer sleeve
d_a	max. 396 mm	Abutment diameter spacer sleeve
d_b	min. 405 mm	Abutment diameter shaft
D_a	max. 500 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 120 kN
Basic static load rating	C_0	4 500 kN
Fatigue load limit	P_u	400 kN
Reference speed		850 r/min
Limiting speed		1 300 r/min
Calculation factor	k_r	0.24

Mass

Mass bearing	220 kg



BC2B 319961

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	370 mm
Outside diameter	520 mm
Width	220 mm

Performance

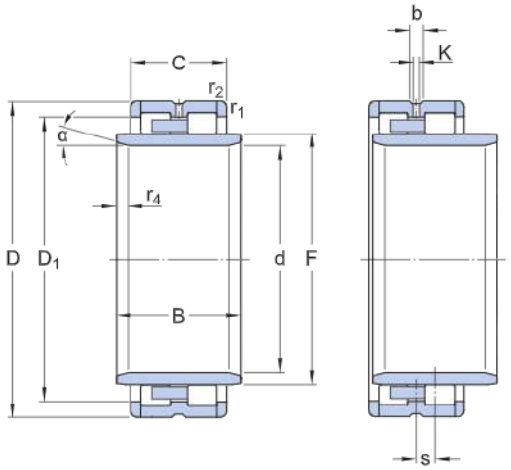
Basic dynamic load rating	2 750 kN
Basic static load rating	6 700 kN
Limiting speed	1 300 r/min
Reference speed	850 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Inner ring extension	On both sides
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNUB.1/W33WI

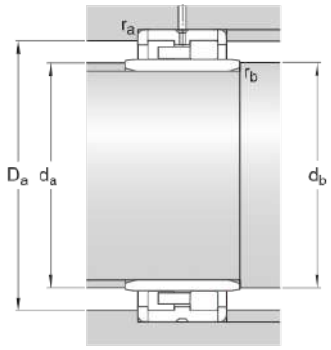


Dimensions

d	370 mm	Bore diameter
D	520 mm	Outside diameter
B	220 mm	Overall bearing width
C	193 mm	Width outer ring
D_1	≈ 468 mm	Shoulder diameter outer ring
F	409 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 1.5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 10.8 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 16.7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 390 mm	Abutment diameter spacer sleeve
d_a	max. 404 mm	Abutment diameter spacer sleeve



d_b	min. 414 mm	Abutment diameter shaft
D_a	max. 512 mm	Abutment diameter spacer sleeve / housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 750 kN
Basic static load rating	C_0	6 700 kN
Fatigue load limit	P_u	570 kN
Reference speed		850 r/min
Limiting speed		1 300 r/min
Calculation factor	k_r	0.34

Mass

Mass bearing	130 kg

BC2B 320041

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	540 mm
Width	200 mm

Performance

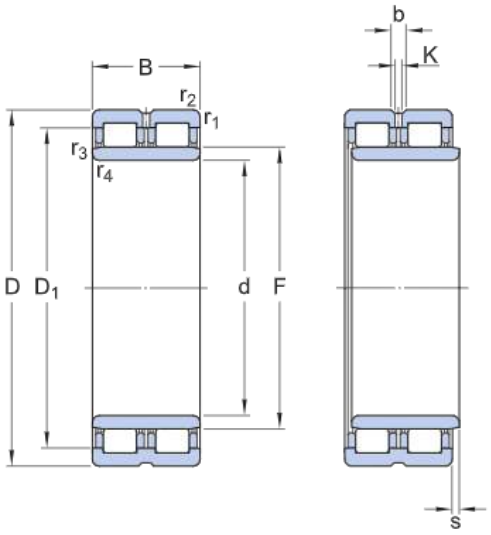
Basic dynamic load rating	2 860 kN
Basic static load rating	6 800 kN
Limiting speed	1 200 r/min
Reference speed	800 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

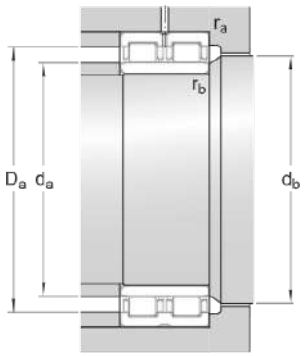
Technical Specification

Design variant/feature	NNU.1/C4W33



Dimensions

d	380 mm	Bore diameter
D	540 mm	Outside diameter
B	200 mm	Overall bearing width
D_1	≈ 486 mm	Shoulder diameter outer ring
F	422 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 2 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 4.9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

d_a	min. 400 mm	Abutment diameter spacer sleeve
d_a	max. 418 mm	Abutment diameter spacer sleeve
d_b	min. 427 mm	Abutment diameter shaft
D_a	max. 530 mm	Abutment diameter spacer sleeve / housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 860 kN
Basic static load rating	C_0	6 800 kN
Fatigue load limit	P_u	585 kN
Reference speed		800 r/min
Limiting speed		1 200 r/min
Calculation factor	k_r	0.32

Mass

Mass bearing	145 kg

BC2B 320075/VJ202

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	360 mm
Outside diameter	500 mm
Width	250 mm

Performance

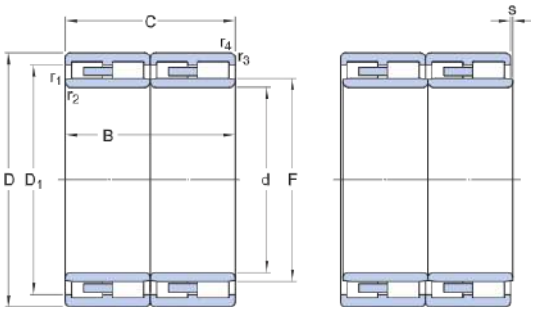
Basic dynamic load rating	3 910 kN
Basic static load rating	7 350 kN
Limiting speed	1 300 r/min
Reference speed	900 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	Without
Sealing	Without

Technical Specification

Design variant/feature	BC4.7/WO
Bore type	Cylindrical



Dimensions

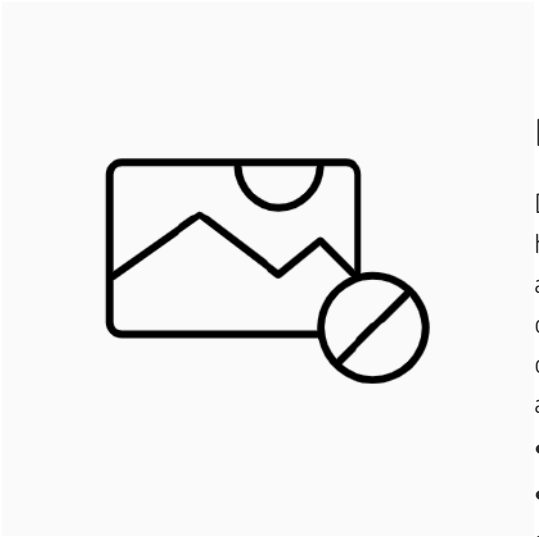
d	360 mm	Bore diameter
D	500 mm	Outside diameter
B	250 mm	Total bearing width over inner ring(s)
C	250 mm	Total bearing width over outer ring(s)
D_1	≈ 461.2 mm	Outer ring shoulder diameter
F	394 mm	Raceway diameter inner ring
$r_{1,2}$	min. 3 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	3 910 kN
Basic static load rating	C_0	7 350 kN
Fatigue load limit	P_u	670 kN
Calculation factor	k_r	390

Mass

Mass bearing	145 kg



BC2B 320117/HA4

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	530 mm
Outside diameter	780 mm
Width	475 mm

Performance

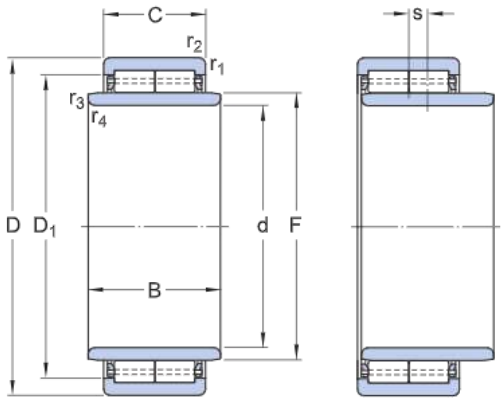
Basic dynamic load rating	7 210 kN
Basic static load rating	17 300 kN
Limiting speed	800 r/min
Reference speed	530 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Inner ring extension	On both sides
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C3
Relubrication feature	Without
Sealing	Without

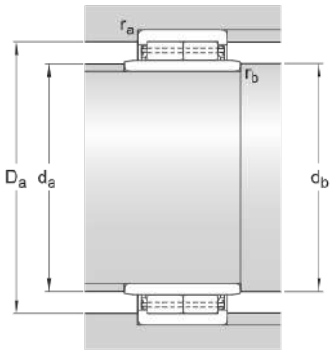
Technical Specification

Design variant/feature	NNUB.3/C3W0



Dimensions

d	530 mm	Bore diameter
D	780 mm	Outside diameter
B	475 mm	Overall bearing width
C	285 mm	Width outer ring
D_1	≈ 699 mm	Shoulder diameter outer ring
F	590 mm	Raceway diameter inner ring
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 100 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

d_a	min. 550 mm	Abutment diameter spacer sleeve
d_a	max. 582 mm	Abutment diameter spacer sleeve
d_b	min. 595 mm	Abutment diameter shaft
D_a	max. 760 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	7 210 kN
Basic static load rating	C_0	17 300 kN
Fatigue load limit	P_u	1 290 kN
Reference speed		530 r/min
Limiting speed		800 r/min
Calculation factor	k_r	0.4

Mass

Mass bearing	561 kg

BC2B 320118

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	520 mm
Width	305 mm

Performance

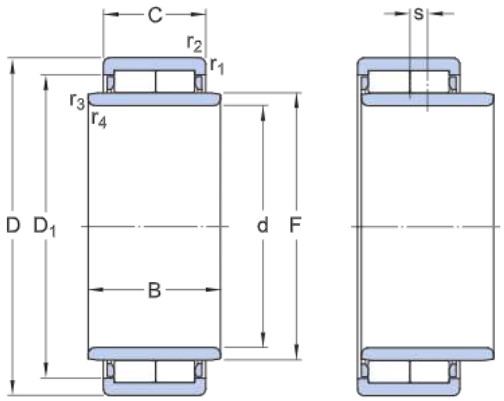
Basic dynamic load rating	3 300 kN
Basic static load rating	7 100 kN
Limiting speed	1 300 r/min
Reference speed	900 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Inner ring extension	On both sides
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C3
Relubrication feature	Without
Sealing	Without

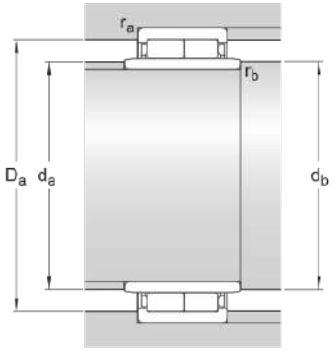
Technical Specification

Design variant/feature	NNUB.2/C3W0



Dimensions

d	340 mm	Bore diameter
D	520 mm	Outside diameter
B	305 mm	Overall bearing width
C	200 mm	Width outer ring
D_1	≈ 461 mm	Shoulder diameter outer ring
F	384 mm	Raceway diameter inner ring
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 45 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

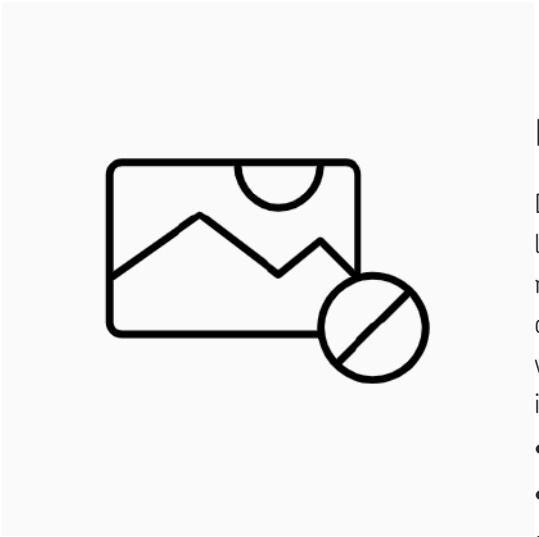
d_a	min. 360 mm	Abutment diameter spacer sleeve
d_a	max. 374 mm	Abutment diameter spacer sleeve
d_b	min. 388 mm	Abutment diameter shaft
D_a	max. 500 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 300 kN
Basic static load rating	C_0	7 100 kN
Fatigue load limit	P_u	610 kN
Reference speed		900 r/min
Limiting speed		1 300 r/min
Calculation factor	k_r	0.38

Mass

Mass bearing	185 kg



BC2B 320119

Double row cylindrical roller bearing, NNU design

Double row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having three flanges on the outer ring and no flanges on the inner ring, NNU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Separable design
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	460 mm
Width	180 mm

Performance

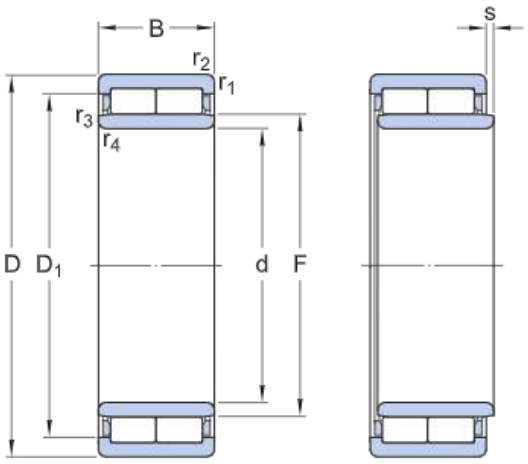
Basic dynamic load rating	2 600 kN
Basic static load rating	5 500 kN
Limiting speed	1 500 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C3
Relubrication feature	Without
Sealing	Without

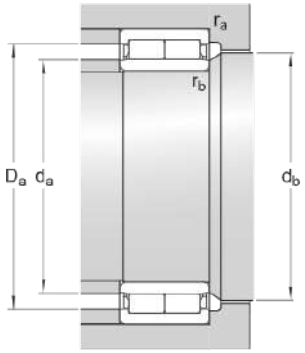
Technical Specification

Design variant/feature	NNU.5/C3



Dimensions

d	300 mm	Bore diameter
D	460 mm	Outside diameter
B	180 mm	Overall bearing width
D_1	≈ 407 mm	Shoulder diameter outer ring
F	339 mm	Raceway diameter inner ring
$r_{1,2}$	min. 4 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 4 mm	Chamfer dimension inner ring
s	max. 4.9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

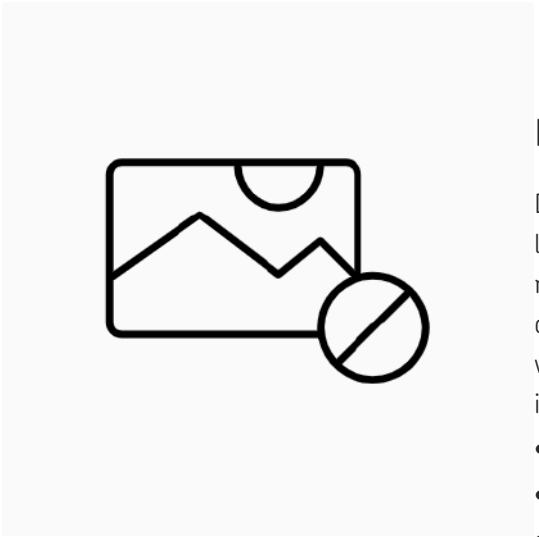
d_a	min. 316 mm	Abutment diameter spacer sleeve
d_a	max. 334 mm	Abutment diameter spacer sleeve
d_b	min. 343 mm	Abutment diameter shaft
D_a	max. 444 mm	Abutment diameter spacer sleeve / housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 600 kN
Basic static load rating	C_0	5 500 kN
Fatigue load limit	P_u	490 kN
Reference speed		1 000 r/min
Limiting speed		1 500 r/min
Calculation factor	k_r	0.38

Mass

Mass bearing	118 kg



BC2B 322216

Double row cylindrical roller bearing, NNU design

Double row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having three flanges on the outer ring and no flanges on the inner ring, NNU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Separable design
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	460 mm
Width	120 mm

Performance

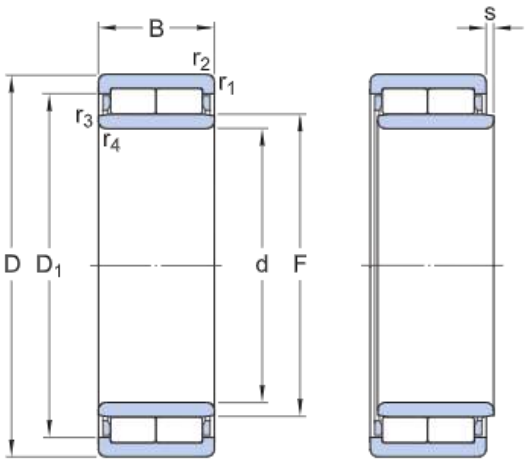
Basic dynamic load rating	1 720 kN
Basic static load rating	3 600 kN
Limiting speed	1 400 r/min
Reference speed	950 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	NSTD
Relubrication feature	Without
Sealing	Without

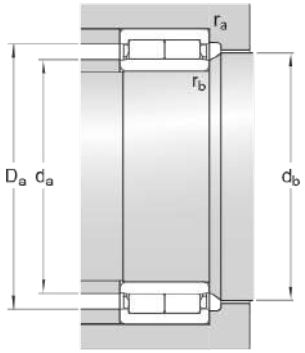
Technical Specification

Design variant/feature	NNU.5/W0



Dimensions

d	320 mm	Bore diameter
D	460 mm	Outside diameter
B	120 mm	Overall bearing width
D_1	≈ 425 mm	Shoulder diameter outer ring
F	364 mm	Raceway diameter inner ring
$r_{1,2}$	min. 3 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 3 mm	Chamfer dimension inner ring
s	max. 3.9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

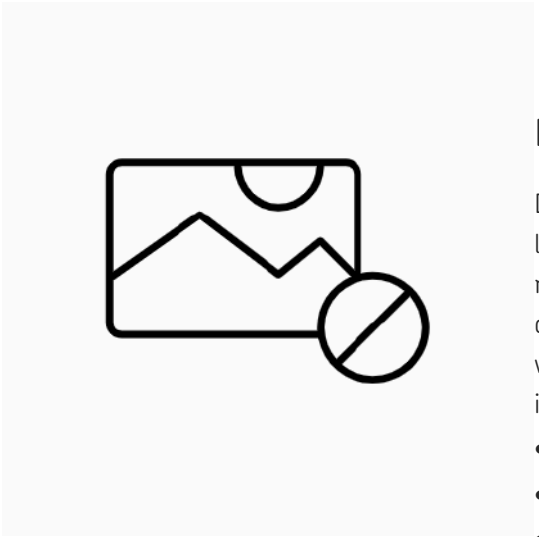
d_a	min. 334 mm	Abutment diameter spacer sleeve
d_a	max. 360 mm	Abutment diameter spacer sleeve
d_b	min. 368 mm	Abutment diameter shaft
D_a	max. 446 mm	Abutment diameter spacer sleeve / housing
r_a	max. 2.5 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 720 kN
Basic static load rating	C_0	3 600 kN
Fatigue load limit	P_u	335 kN
Reference speed		950 r/min
Limiting speed		1 400 r/min
Calculation factor	k_r	0.23

Mass

Mass bearing	70 kg



BC2B 322217

Double row cylindrical roller bearing, NNU design

Double row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having three flanges on the outer ring and no flanges on the inner ring, NNU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Separable design
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	360 mm
Outside diameter	500 mm
Width	125 mm

Performance

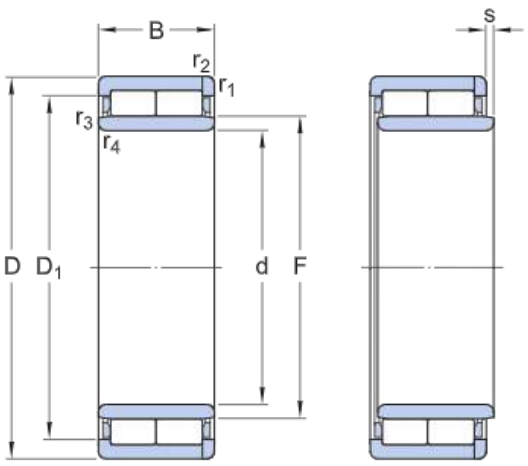
Basic dynamic load rating	2 050 kN
Basic static load rating	4 300 kN
Limiting speed	1 300 r/min
Reference speed	900 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	NSTD
Relubrication feature	Without
Sealing	Without

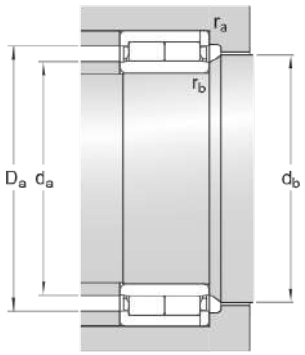
Technical Specification

Design variant/feature	NNU.7/W0



Dimensions

d	360 mm	Bore diameter
D	500 mm	Outside diameter
B	125 mm	Overall bearing width
D_1	≈ 463 mm	Shoulder diameter outer ring
F	394 mm	Raceway diameter inner ring
$r_{1,2}$	min. 3 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 3 mm	Chamfer dimension inner ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

d_a	min. 374 mm	Abutment diameter spacer sleeve
d_a	max. 390 mm	Abutment diameter spacer sleeve
d_b	min. 398 mm	Abutment diameter shaft
D_a	max. 486 mm	Abutment diameter spacer sleeve / housing
r_a	max. 2.5 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

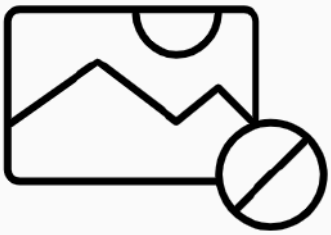
Calculation data

Basic dynamic load rating	C	2 050 kN
Basic static load rating	C_0	4 300 kN
Fatigue load limit	P_u	360 kN
Reference speed		900 r/min
Limiting speed		1 300 r/min
Calculation factor	k_r	0.23

Mass

Mass bearing	80 kg

BC2B 322217/VJ202



Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	360 mm
Outside diameter	500 mm
Width	250 mm

Performance

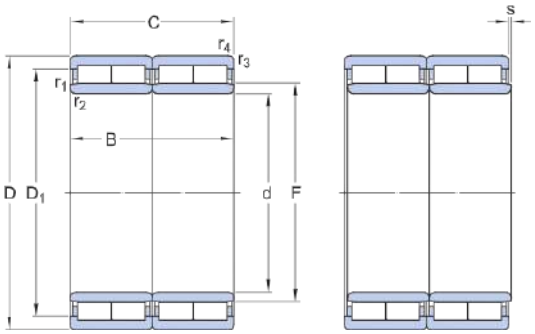
Basic dynamic load rating	4 400 kN
Basic static load rating	8 500 kN
Limiting speed	1 300 r/min
Reference speed	900 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	Without
Sealing	Without

Technical Specification

Design variant/feature	BC4.13/W0
Bore type	Cylindrical



Dimensions

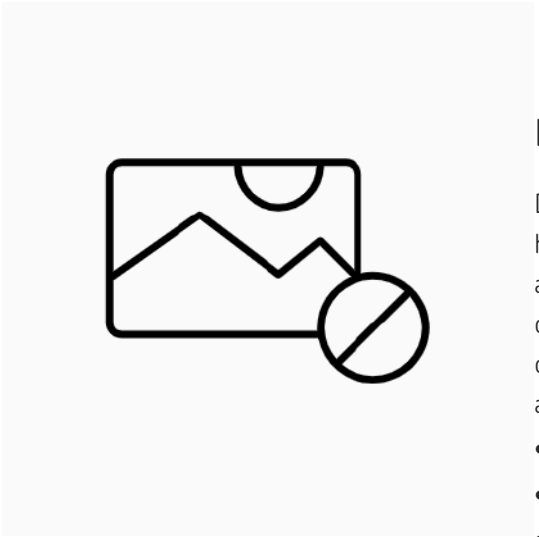
d	360 mm	Bore diameter
D	500 mm	Outside diameter
B	250 mm	Total bearing width over inner ring(s)
C	250 mm	Total bearing width over outer ring(s)
D_1	≈ 463 mm	Outer ring shoulder diameter
F	394 mm	Raceway diameter inner ring
$r_{1,2}$	min. 3 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	4 400 kN
Basic static load rating	C_0	8 500 kN
Fatigue load limit	P_u	780 kN
Calculation factor	k_r	0

Mass

Mass bearing	160 kg



BC2B 322969/HB1

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	457.2 mm
Outside diameter	660.4 mm
Width	228.6 mm

Performance

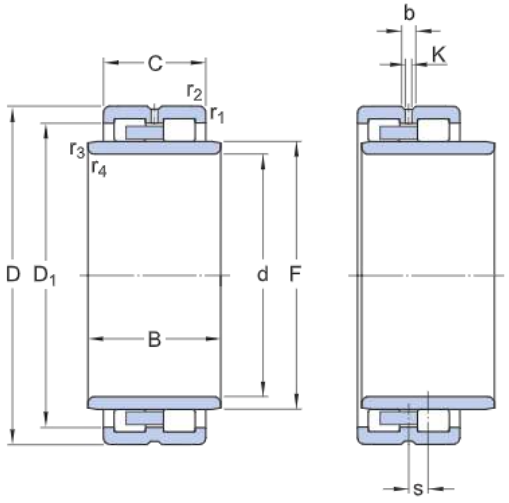
Basic dynamic load rating	3 690 kN
Basic static load rating	8 150 kN
Limiting speed	950 r/min
Reference speed	670 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Inner ring extension	On both sides
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNUB/W33

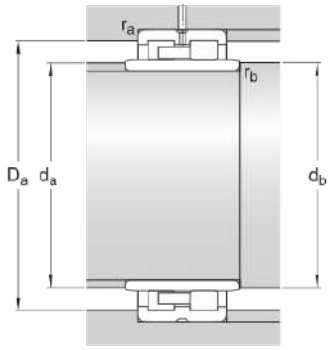


Dimensions

d	457.2 mm	Bore diameter
D	660.4 mm	Outside diameter
B	228.6 mm	Overall bearing width
C	203.2 mm	Width outer ring
D_1	≈ 599 mm	Shoulder diameter outer ring
F	508 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 6 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 6 mm	Chamfer dimension inner ring
s	max. 15.6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 483	mm	Abutment diameter spacer sleeve
d_a	max. 499	mm	Abutment diameter spacer sleeve
d_b	min. 513	mm	Abutment diameter shaft
D_a	max. 634	mm	Abutment diameter spacer sleeve / housing



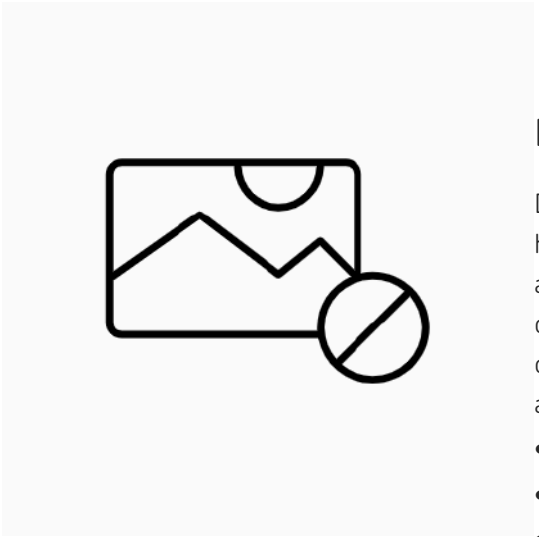
r_a max. 5 mm		Fillet radius
r_b max. 5 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	3 690 kN
Basic static load rating	C_0	8 150 kN
Fatigue load limit	P_u	640 kN
Reference speed		670 r/min
Limiting speed		950 r/min
Calculation factor	k_r	0.26

Mass

Mass bearing	235 kg



BC2B 326064/HA1

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	530 mm
Outside diameter	780 mm
Width	225 mm

Performance

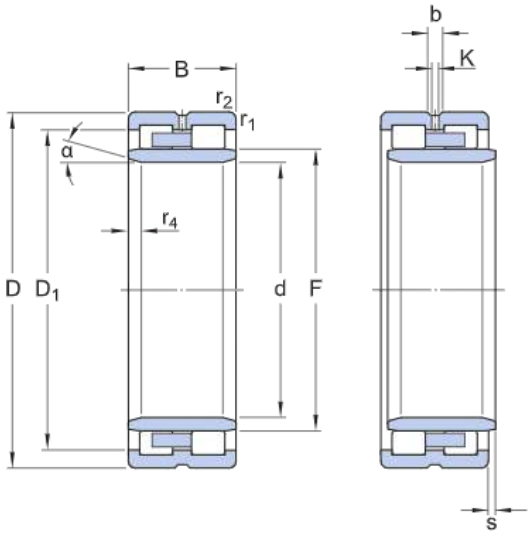
Basic dynamic load rating	4 400 kN
Basic static load rating	9 500 kN
Limiting speed	800 r/min
Reference speed	530 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU/W33

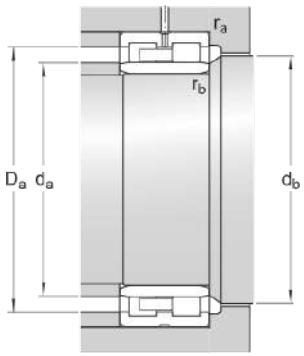


Dimensions

d	530 mm	Bore diameter
D	780 mm	Outside diameter
B	225 mm	Overall bearing width
D_1	≈ 711 mm	Shoulder diameter outer ring
F	601 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 6 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 20 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 11.2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 554 mm	Abutment diameter spacer sleeve
d_a	max. 592 mm	Abutment diameter spacer sleeve
d_b	min. 606 mm	Abutment diameter shaft
D_a	max. 754 mm	Abutment diameter spacer sleeve / housing



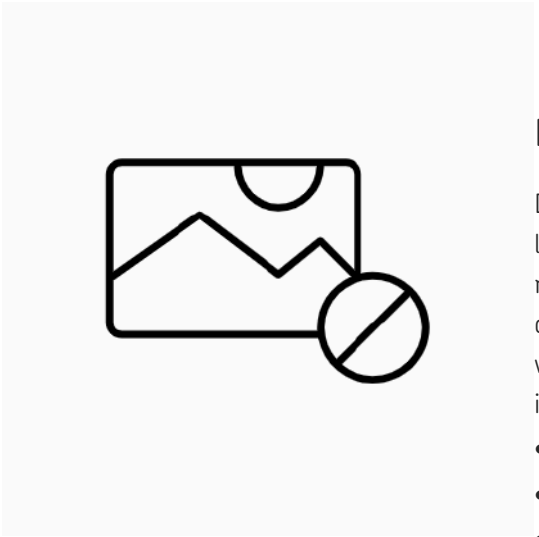
r_a max. 5 mm		Fillet radius
r_b max. 5 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	4 400 kN
Basic static load rating	C_0	9 500 kN
Fatigue load limit	P_u	695 kN
Reference speed		530 r/min
Limiting speed		800 r/min
Calculation factor	k_r	0.21

Mass

Mass bearing	350 kg



BC2B 326131/HB1

Double row cylindrical roller bearing, NNU design

Double row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having three flanges on the outer ring and no flanges on the inner ring, NNU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Separable design
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	540 mm
Width	130 mm

Performance

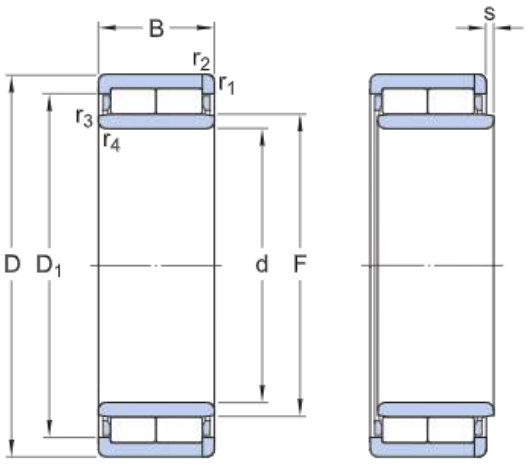
Basic dynamic load rating	2 010 kN
Basic static load rating	4 300 kN
Limiting speed	1 200 r/min
Reference speed	800 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C4
Relubrication feature	Without
Sealing	Without

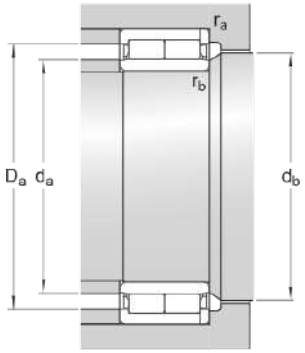
Technical Specification

Design variant/feature	NNU.7/W0



Dimensions

d	380 mm	Bore diameter
D	540 mm	Outside diameter
B	130 mm	Overall bearing width
D_1	≈ 495 mm	Shoulder diameter outer ring
F	428 mm	Raceway diameter inner ring
$r_{1,2}$	min. 4 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 4 mm	Chamfer dimension inner ring
s	max. 4.9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

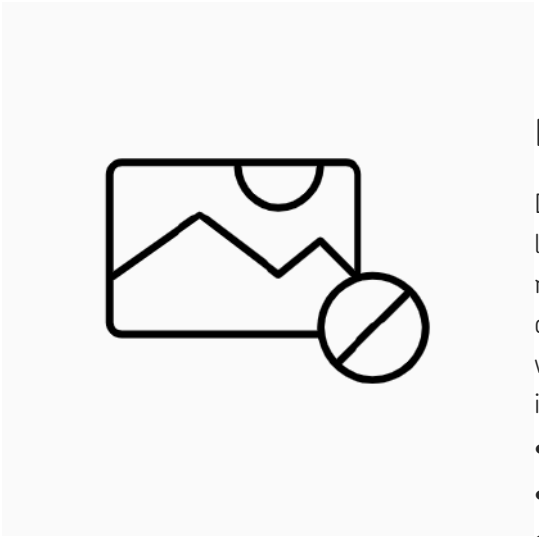
d_a	min. 396 mm	Abutment diameter spacer sleeve
d_a	max. 421 mm	Abutment diameter spacer sleeve
d_b	min. 433 mm	Abutment diameter shaft
D_a	max. 524 mm	Abutment diameter spacer sleeve / housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 010 kN
Basic static load rating	C_0	4 300 kN
Fatigue load limit	P_u	380 kN
Reference speed		800 r/min
Limiting speed		1 200 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	100 kg



BC2B 326137/HB1

Double row cylindrical roller bearing, NNU design

Double row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having three flanges on the outer ring and no flanges on the inner ring, NNU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Separable design
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	420 mm
Outside diameter	580 mm
Width	130 mm

Performance

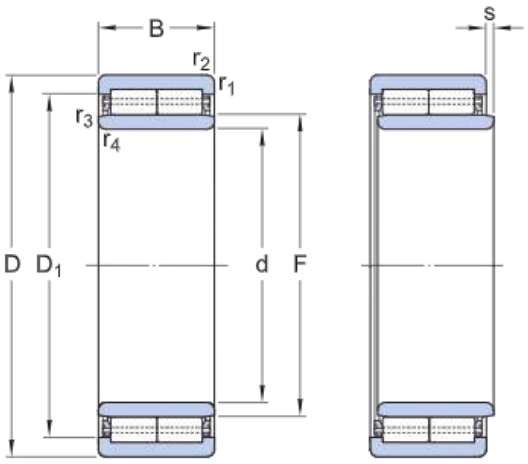
Basic dynamic load rating	2 380 kN
Basic static load rating	5 300 kN
Limiting speed	1 100 r/min
Reference speed	750 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C4
Relubrication feature	Without
Sealing	Without

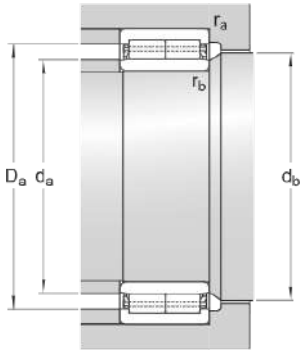
Technical Specification

Design variant/feature	NNU.6/W0



Dimensions

d	420 mm	Bore diameter
D	580 mm	Outside diameter
B	130 mm	Overall bearing width
D_1	≈ 531 mm	Shoulder diameter outer ring
F	460 mm	Raceway diameter inner ring
$r_{1,2}$	min. 4 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 4 mm	Chamfer dimension inner ring
s	max. 4.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

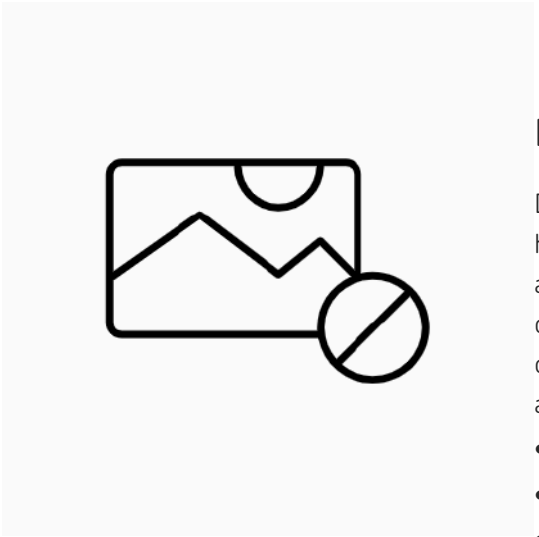
d_a	min. 436 mm	Abutment diameter spacer sleeve
d_a	max. 453 mm	Abutment diameter spacer sleeve
d_b	min. 465 mm	Abutment diameter shaft
D_a	max. 564 mm	Abutment diameter spacer sleeve / housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 380 kN
Basic static load rating	C_0	5 300 kN
Fatigue load limit	P_u	465 kN
Reference speed		750 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.21

Mass

Mass bearing	110 kg



BC2B 326363/HA4

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	600.19 mm
Width	200 mm

Performance

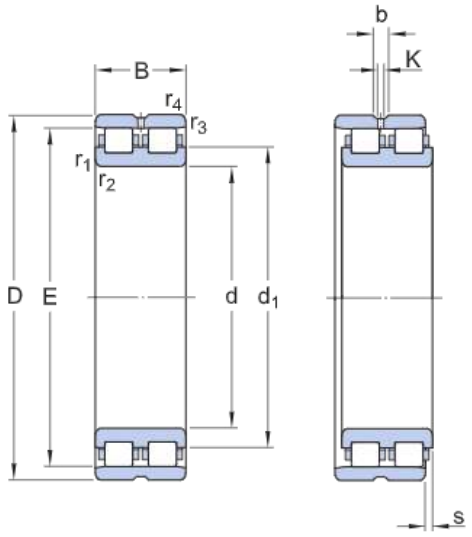
Basic dynamic load rating	3 470 kN
Basic static load rating	7 200 kN
Limiting speed	1 100 r/min
Reference speed	750 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

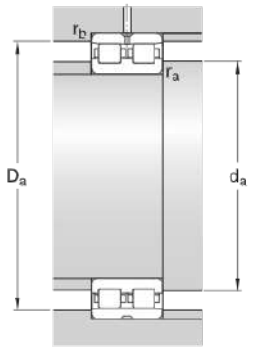
Technical Specification

Design variant/feature	NN.1/W33



Dimensions

d	400 mm	Bore diameter
D	600.19 mm	Outside diameter
B	200 mm	Overall bearing width
d_1	≈ 468 mm	Shoulder diameter inner ring
E	557 mm	Raceway diameter outer ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 5 mm	Chamfer dimension inner ring
$r_{3,4}$	min. 5 mm	Chamfer dimension outer ring
s	max. 4.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

d_a	min. 420 mm	Abutment diameter spacer sleeve
D_a	min. 564 mm	Abutment diameter spacer sleeve / housing
D_a	max. 580 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 470 kN
Basic static load rating	C_0	7 200 kN
Fatigue load limit	P_u	600 kN
Reference speed		750 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.28

Mass

Mass bearing	206 kg

BC2B 326372/HA1

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	1 319.5 mm
Outside diameter	1 720 mm
Width	300 mm

Performance

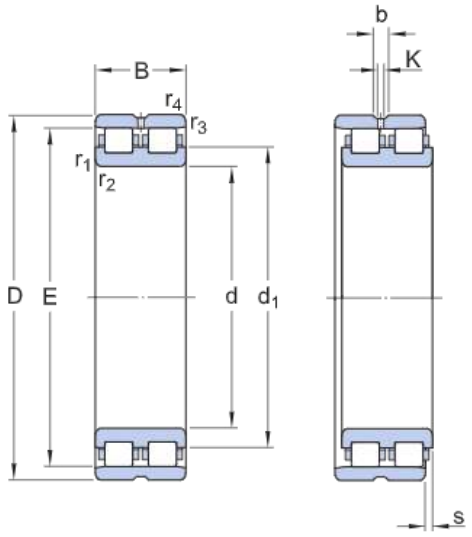
Basic dynamic load rating	12 500 kN
Basic static load rating	34 500 kN
Limiting speed	240 r/min
Reference speed	160 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NN.1/C4W33

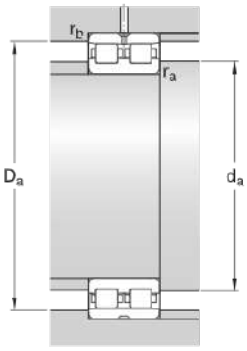


Dimensions

d	1 319.5 mm	Bore diameter
D	1 720 mm	Outside diameter
B	300 mm	Overall bearing width
d_1	≈ 1 464 mm	Shoulder diameter inner ring
E	1 636 mm	Raceway diameter outer ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 7.5 mm	Chamfer dimension inner ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 1 344 mm	Abutment diameter spacer sleeve
D_a	min. 1 645 mm	Abutment diameter spacer sleeve / housing



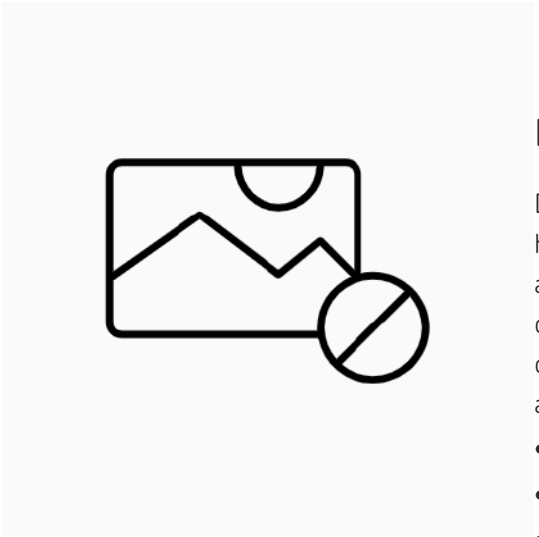
D_i	max. 1 689 mm	Abutment diameter spacer sleeve / housing
r_a	max. 6 mm	Fillet radius
r_b	max. 6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	12 500 kN
Basic static load rating	C_0	34 500 kN
Fatigue load limit	P_u	2 000 kN
Reference speed		160 r/min
Limiting speed		240 r/min
Calculation factor	k_r	0.15

Mass

Mass bearing	1 820 kg



BC2B 326379/HA4

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	800 mm
Outside diameter	1 260 mm
Width	375 mm

Performance

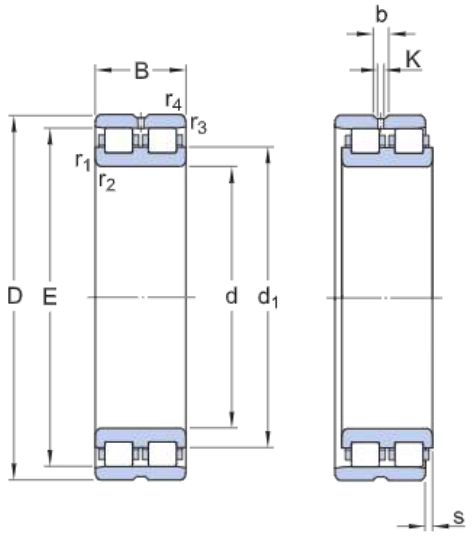
Basic dynamic load rating	12 800 kN
Basic static load rating	28 000 kN
Limiting speed	430 r/min
Reference speed	300 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NN.1/C2W33

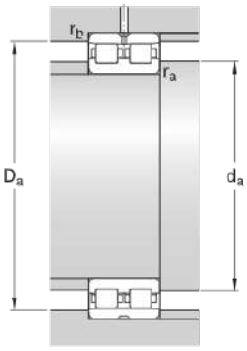


Dimensions

d	800 mm	Bore diameter
D	1 260 mm	Outside diameter
B	375 mm	Overall bearing width
d_1	≈ 963 mm	Shoulder diameter inner ring
E	1 161 mm	Raceway diameter outer ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 9.5 mm	Chamfer dimension inner ring
$r_{3,4}$	min. 9.5 mm	Chamfer dimension outer ring
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 840 mm	Abutment diameter spacer sleeve
D_a	min. 1 175 mm	Abutment diameter spacer sleeve / housing
D_a	max. 1 220 mm	Abutment diameter spacer sleeve / housing



r_a max. 8 mm		Fillet radius
r_b max. 8 mm		Fillet radius

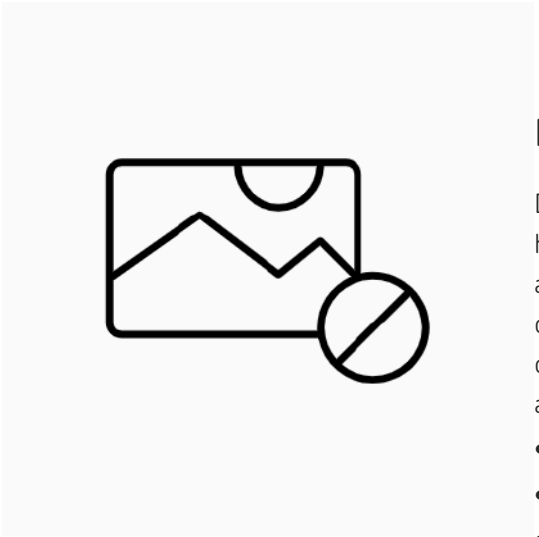
Calculation data

Basic dynamic load rating	C	12 800 kN
Basic static load rating	C_0	28 000 kN
Fatigue load limit	P_u	1 800 kN
Reference speed		300 r/min
Limiting speed		430 r/min
Calculation factor	k_r	0.26

Mass

Mass bearing	1 850 kg

BC2B 326894/HB1



Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	650 mm
Outside diameter	920 mm
Width	335 mm

Performance

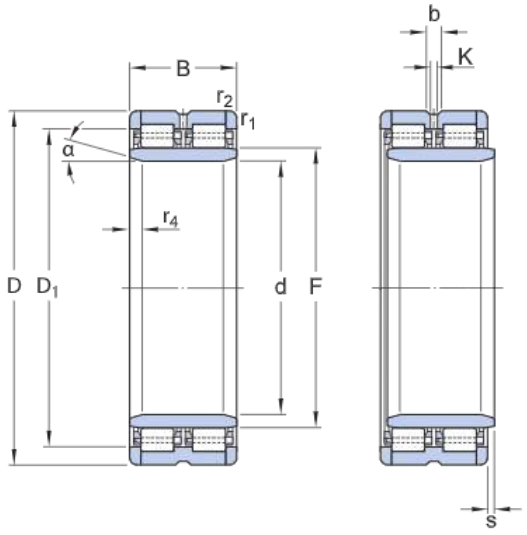
Basic dynamic load rating	8 580 kN
Basic static load rating	23 200 kN
Limiting speed	630 r/min
Reference speed	630 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU.4/C4W33WI

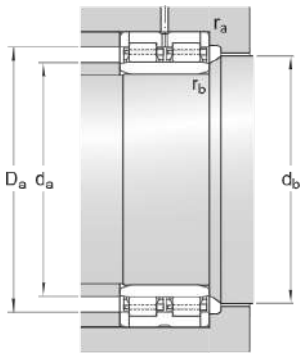


Dimensions

d	650 mm	Bore diameter
D	920 mm	Outside diameter
B	335 mm	Overall bearing width
D_1	≈ 826 mm	Shoulder diameter outer ring
F	723 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 4 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 17.5 mm	Chamfer dimension inner ring
α	20 °	Chamfer angle inner ring
s	max. 5.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 676 mm	Abutment diameter spacer sleeve
d_a	max. 713 mm	Abutment diameter spacer sleeve
d_b	min. 729 mm	Abutment diameter shaft
D_a	max. 894 mm	Abutment diameter spacer sleeve / housing



r_a max. 3 mm		Fillet radius
r_b max. 3 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	8 580 kN
Basic static load rating	C_0	23 200 kN
Fatigue load limit	P_u	1 600 kN
Reference speed		630 r/min
Limiting speed		630 r/min
Calculation factor	k_r	0.37

Mass

Mass bearing	740 kg

BC4-0051

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	270 mm
Width	200 mm

Performance

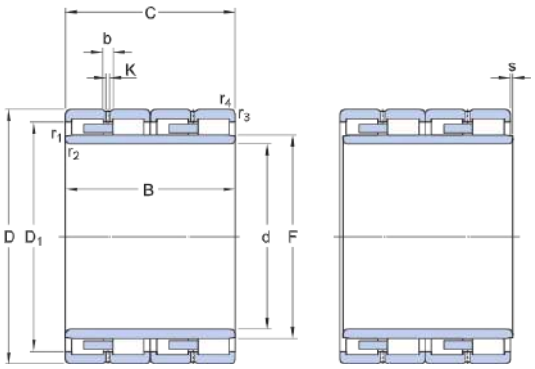
Basic dynamic load rating	1 700 kN
Basic static load rating	3 200 kN
Limiting speed	2 600 r/min
Reference speed	1 700 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

SKF performance class	SKF Explorer
Design variant/feature	BC4.1/WO
Bore type	Cylindrical



Dimensions

d	200 mm	Bore diameter
D	270 mm	Outside diameter
B	200 mm	Total bearing width over inner ring(s)
C	200 mm	Total bearing width over outer ring(s)
D_1	≈ 250.35 mm	Outer ring shoulder diameter
F	222.25 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 700 kN
Basic static load rating	C_0	3 200 kN
Fatigue load limit	P_u	335 kN

Mass

Mass bearing	33 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0051
Separable bearing ring	LBC4-0051

BC4-0092

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	280 mm
Width	200 mm

Performance

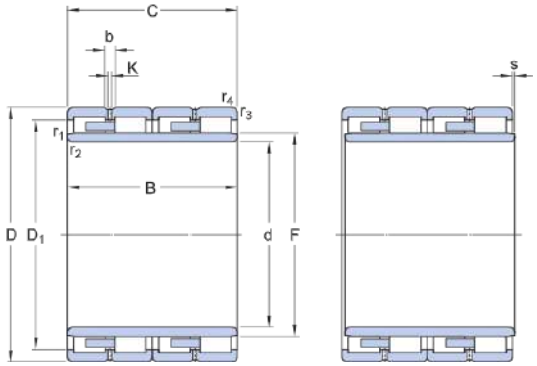
Basic dynamic load rating	1 860 kN
Basic static load rating	3 350 kN
Limiting speed	2 600 r/min
Reference speed	1 700 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With

Technical Specification

This bearing can replace	313893
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W33WO
Bore type	Cylindrical



Dimensions

d	200 mm	Bore diameter
D	280 mm	Outside diameter
B	200 mm	Total bearing width over inner ring(s)
C	200 mm	Total bearing width over outer ring(s)
D_1	≈ 251.5 mm	Outer ring shoulder diameter
F	222 mm	Raceway diameter inner ring
b	11.1 mm	Width of annular groove
K	6 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 860 kN
Basic static load rating	C_0	3 350 kN
Fatigue load limit	P_u	345 kN

Mass

Mass bearing	39.6 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0092
Separable bearing ring	LBC4-0092

BC4-0093

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	127 mm
Outside diameter	174.65 mm
Width	150.812 mm

Performance

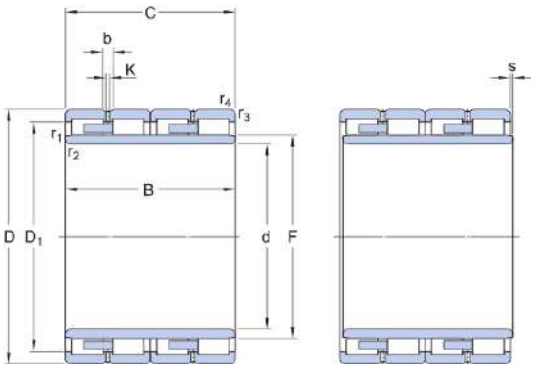
Basic dynamic load rating	780 kN
Basic static load rating	1 320 kN
Limiting speed	4 000 r/min
Reference speed	2 800 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4P
Relubrication feature	Without
Sealing	Without

Technical Specification

This bearing can replace	315643/C4PVJ202
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	127 mm	Bore diameter
D	174.65 mm	Outside diameter
B	150.812 mm	Total bearing width over inner ring(s)
C	150.812 mm	Total bearing width over outer ring(s)
D_1	≈ 158.9 mm	Outer ring shoulder diameter
F	139.5 mm	Raceway diameter inner ring
$r_{1,2}$	min. 1.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension on the outer ring
s	6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	780 kN
Basic static load rating	C_0	1 320 kN
Fatigue load limit	P_u	153 kN

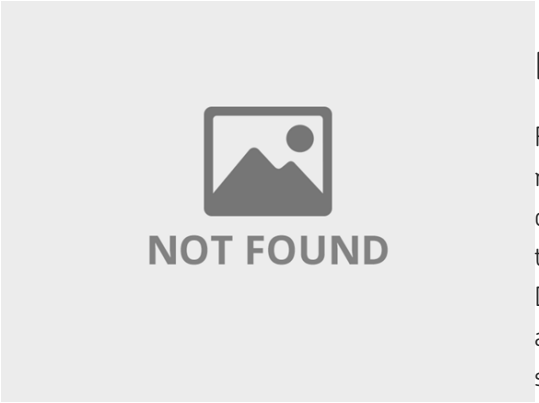
Mass

Mass bearing	10.6 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0093
Separable bearing ring	LBC4-0093

BC4-0094



Four-row cylindrical roller bearing, for long products

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- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	420 mm
Width	300 mm

Performance

Basic dynamic load rating	4 400 kN
Basic static load rating	8 300 kN
Limiting speed	1 600 r/min
Reference speed	1 100 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With

Sealing	Without

Technical Specification

This bearing can replace	314484 D
SKF performance class	SKF Explorer
Design variant/feature	BC4.8/W33WO
Bore type	Cylindrical

Dimensions

Bore diameter	d	300 mm
Outside diameter	D	420 mm
Total bearing width over inner ring(s)	B	300 mm
Total bearing width over outer ring(s)	C	300 mm
Bore diameter loose flange ring	D_1	≈ 378 mm
Outer ring shoulder diameter	D_1	≈ 378.2 mm
Raceway diameter inner ring	F	332 mm
Width of annular groove	b	11.1 mm
Diameter lubrication hole (outer ring)	K	6 mm
Corner radius/chamfer inner ring	r_2	min. 6.4 mm
Chamfer angle inner ring	α	20 °
Chamfer dimension on the outer ring	$r_{3,4}$	min. 1.5 mm
Permissible axial displacement from the normal position of one bearing ring relative to the other	s	3 mm

Calculation data

Basic dynamic load rating	C	4 400 kN
Basic static load rating	C_0	8 300 kN
Fatigue load limit	P_u	800 kN

Mass

Mass bearing	130 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0094
Separable bearing ring	LBC4-0094

BC4-0095

Four-row cylindrical roller bearing, for long products

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- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	280 mm
Width	170 mm

Performance

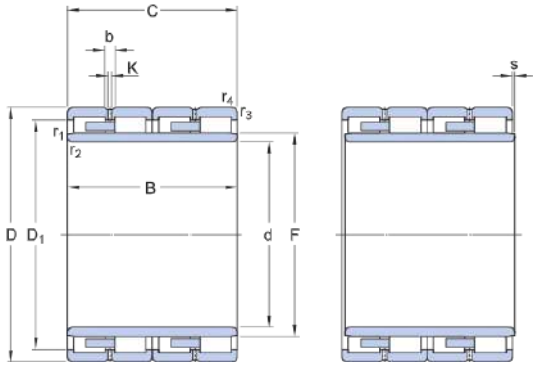
Basic dynamic load rating	1 700 kN
Basic static load rating	3 000 kN
Limiting speed	2 600 r/min
Reference speed	1 700 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	314385
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	200 mm	Bore diameter
D	280 mm	Outside diameter
B	170 mm	Total bearing width over inner ring(s)
C	170 mm	Total bearing width over outer ring(s)
D_1	≈ 251.5 mm	Outer ring shoulder diameter
F	222 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	2.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 700 kN
Basic static load rating	C_0	3 000 kN
Fatigue load limit	P_u	305 kN

Mass

Mass bearing	33.5 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0095
Separable bearing ring	LBC4-0095

BC4-0096

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	230 mm
Width	156 mm

Performance

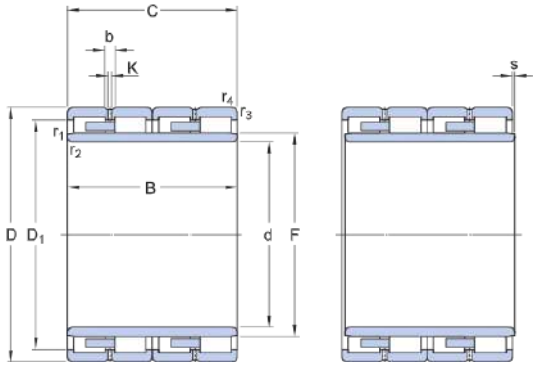
Basic dynamic load rating	1 120 kN
Basic static load rating	1 660 kN
Limiting speed	3 200 r/min
Reference speed	2 200 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	Without

Technical Specification

This bearing can replace	313891 A
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	150 mm	Bore diameter
D	230 mm	Outside diameter
B	156 mm	Total bearing width over inner ring(s)
C	156 mm	Total bearing width over outer ring(s)
D_1	≈ 201.7 mm	Outer ring shoulder diameter
F	174 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring
s	3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 120 kN
Basic static load rating	C_0	1 660 kN
Fatigue load limit	P_u	180 kN

Mass

Mass bearing	24.1 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0096
Separable bearing ring	LBC4-0096

BC4-0097

Four-row cylindrical roller bearing, for long products

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- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	310 mm
Width	225 mm

Performance

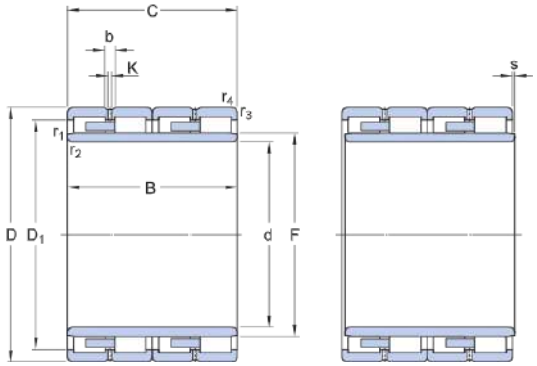
Basic dynamic load rating	2 280 kN
Basic static load rating	4 050 kN
Limiting speed	2 200 r/min
Reference speed	1 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	313894 B
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	220 mm	Bore diameter
D	310 mm	Outside diameter
B	225 mm	Total bearing width over inner ring(s)
C	225 mm	Total bearing width over outer ring(s)
D_1	≈ 277.9 mm	Outer ring shoulder diameter
F	244 mm	Raceway diameter inner ring
$r_{1,2}$	min. 3 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring
s	4.25 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	2 280 kN
Basic static load rating	C_0	4 050 kN
Fatigue load limit	P_u	400 kN

Mass

Mass bearing	53.8 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0097
Separable bearing ring	LBC4-0097

BC4-0098

Four-row cylindrical roller bearing, for long products

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- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	260 mm
Width	168 mm

Performance

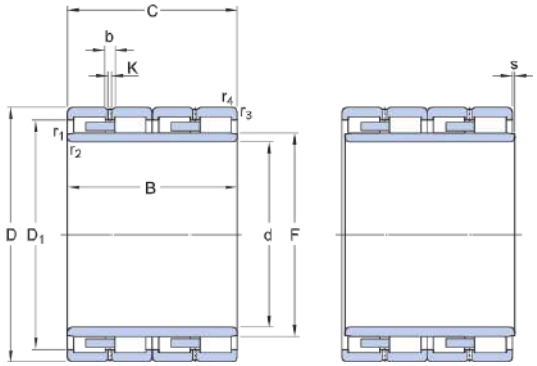
Basic dynamic load rating	1 430 kN
Basic static load rating	2 600 kN
Limiting speed	2 600 r/min
Reference speed	1 800 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	313651
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	190 mm	Bore diameter
D	260 mm	Outside diameter
B	168 mm	Total bearing width over inner ring(s)
C	168 mm	Total bearing width over outer ring(s)
D_1	≈ 237 mm	Outer ring shoulder diameter
F	212 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 430 kN
Basic static load rating	C_0	2 600 kN
Fatigue load limit	P_u	270 kN

Mass

Mass bearing	26.7 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0098
Separable bearing ring	LBC4-0098

BC4-0099

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	330 mm
Width	220 mm

Performance

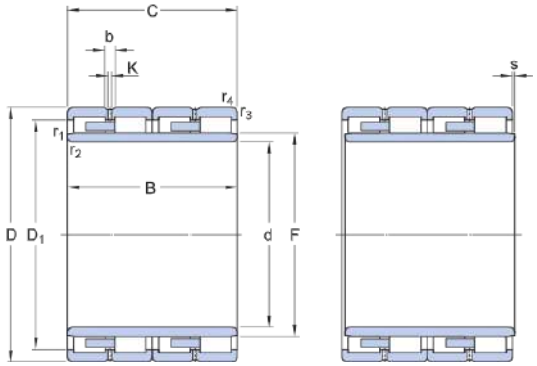
Basic dynamic load rating	2 160 kN
Basic static load rating	4 300 kN
Limiting speed	2 000 r/min
Reference speed	1 400 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C3
Relubrication feature	Without

Technical Specification

This bearing can replace	313921
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	240 mm	Bore diameter
D	330 mm	Outside diameter
B	220 mm	Total bearing width over inner ring(s)
C	220 mm	Total bearing width over outer ring(s)
D_1	≈ 299.2 mm	Outer ring shoulder diameter
F	270 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	2 160 kN
Basic static load rating	C_0	4 300 kN
Fatigue load limit	P_u	425 kN

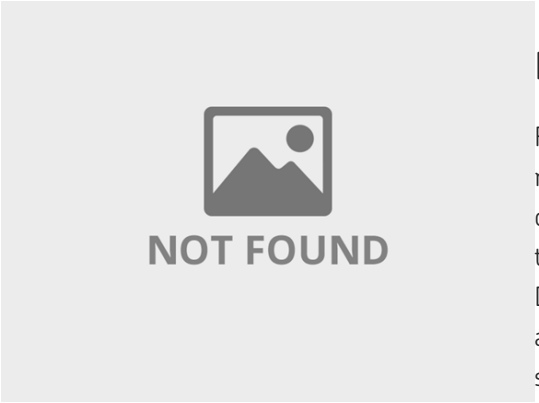
Mass

Mass bearing	58.2 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0099
Separable bearing ring	LBC4-0099

BC4-0100



Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	390 mm
Width	275 mm

Performance

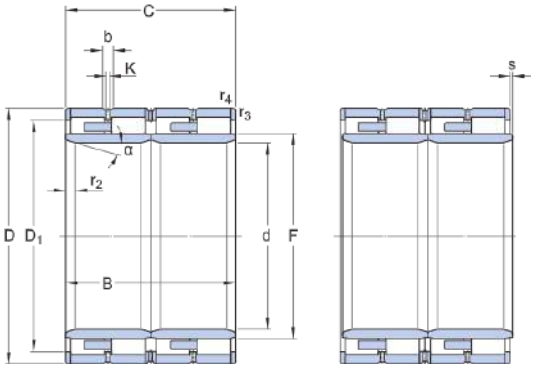
Basic dynamic load rating	3 750 kN
Basic static load rating	6 950 kN
Limiting speed	1 700 r/min
Reference speed	1 200 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With

Technical Specification

This bearing can replace	314719 C
SKF performance class	SKF Explorer
Design variant/feature	BC4.8/W33
Bore type	Cylindrical



Dimensions

d	280 mm	Bore diameter
D	390 mm	Outside diameter
B	275 mm	Total bearing width over inner ring(s)
C	275 mm	Total bearing width over outer ring(s)
D_1	≈ 352.97 mm	Bore diameter loose flange ring
D_1	≈ 353 mm	Outer ring shoulder diameter
F	308 mm	Raceway diameter inner ring
b	11.1 mm	Width of annular groove
K	6 mm	Diameter lubrication hole (outer ring)
r_2	min. 8.08 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 1.1 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	3 750 kN
Basic static load rating	C_0	6 950 kN
Fatigue load limit	P_u	670 kN

Mass

Mass bearing	102 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0100
Separable bearing ring	LBC4-0100

BC4-0101

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	145 mm
Outside diameter	210 mm
Width	155 mm

Performance

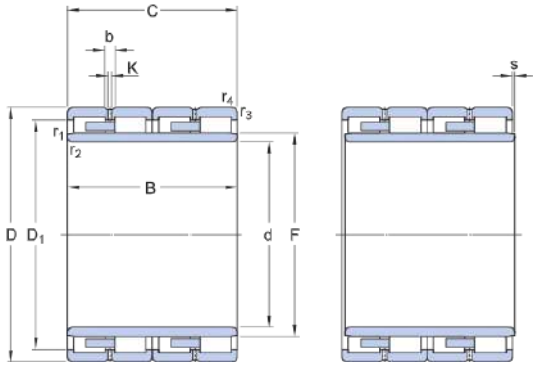
Basic dynamic load rating	980 kN
Basic static load rating	1 560 kN
Limiting speed	3 400 r/min
Reference speed	2 400 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	314625
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	145 mm	Bore diameter
D	210 mm	Outside diameter
B	155 mm	Total bearing width over inner ring(s)
C	155 mm	Total bearing width over outer ring(s)
D_1	≈ 189.3 mm	Outer ring shoulder diameter
F	166 mm	Raceway diameter inner ring
$r_{1,2}$	min. 1.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 1.1 mm	Chamfer dimension on the outer ring
s	4.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	980 kN
Basic static load rating	C_0	1 560 kN
Fatigue load limit	P_u	173 kN

Mass

Mass bearing	18 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0101
Separable bearing ring	LBC4-0101

BC4-0103

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	230 mm
Width	168 mm

Performance

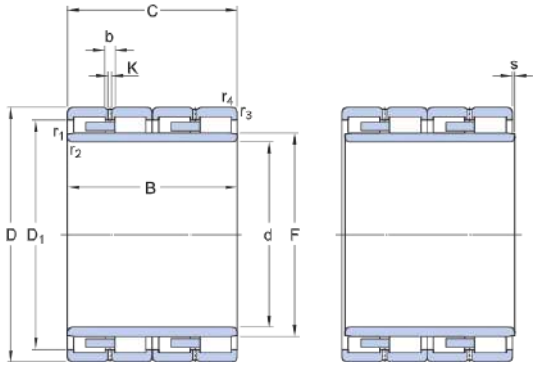
Basic dynamic load rating	1 290 kN
Basic static load rating	2 200 kN
Limiting speed	3 200 r/min
Reference speed	2 200 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	315189 A
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	160 mm	Bore diameter
D	230 mm	Outside diameter
B	168 mm	Total bearing width over inner ring(s)
C	168 mm	Total bearing width over outer ring(s)
D_1	≈ 203.9 mm	Outer ring shoulder diameter
F	179 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 290 kN
Basic static load rating	C_0	2 200 kN
Fatigue load limit	P_u	240 kN

Mass

Mass bearing	23.8 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0103
Separable bearing ring	LBC4-0103

BC4-0105

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	145 mm
Outside diameter	225 mm
Width	156 mm

Performance

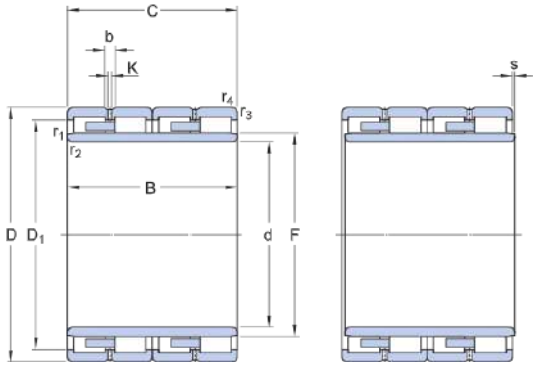
Basic dynamic load rating	1 100 kN
Basic static load rating	1 630 kN
Limiting speed	3 200 r/min
Reference speed	2 200 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	Without

Technical Specification

This bearing can replace	313924 A
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	145 mm	Bore diameter
D	225 mm	Outside diameter
B	156 mm	Total bearing width over inner ring(s)
C	156 mm	Total bearing width over outer ring(s)
D_1	≈ 197 mm	Outer ring shoulder diameter
F	169 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 100 kN
Basic static load rating	C_0	1 630 kN
Fatigue load limit	P_u	183 kN

Mass

Mass bearing	23.7 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0105
Separable bearing ring	LBC4-0105

BC4-0106

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	290 mm
Width	192 mm

Performance

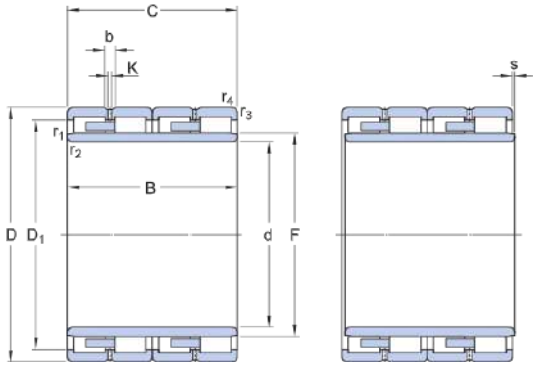
Basic dynamic load rating	1 930 kN
Basic static load rating	3 200 kN
Limiting speed	2 400 r/min
Reference speed	1 600 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	313811
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	200 mm	Bore diameter
D	290 mm	Outside diameter
B	192 mm	Total bearing width over inner ring(s)
C	192 mm	Total bearing width over outer ring(s)
D_1	≈ 259.9 mm	Outer ring shoulder diameter
F	226 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 930 kN
Basic static load rating	C_0	3 200 kN
Fatigue load limit	P_u	320 kN

Mass

Mass bearing	43 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0106
Separable bearing ring	LBC4-0106

BC4-0107

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	390 mm
Width	220 mm

Performance

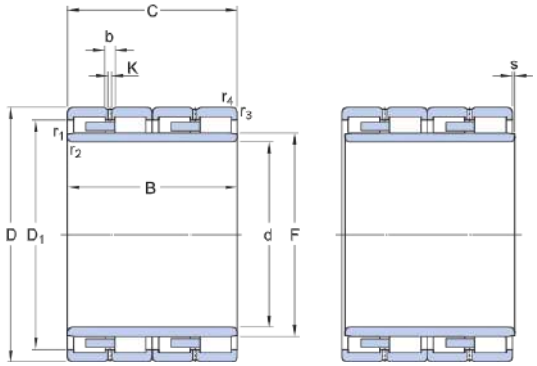
Basic dynamic load rating	2 800 kN
Basic static load rating	5 000 kN
Limiting speed	1 700 r/min
Reference speed	1 200 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	313822
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	280 mm	Bore diameter
D	390 mm	Outside diameter
B	220 mm	Total bearing width over inner ring(s)
C	220 mm	Total bearing width over outer ring(s)
D_1	≈ 352 mm	Outer ring shoulder diameter
F	312 mm	Raceway diameter inner ring
$r_{1,2}$	min. 3 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	2 800 kN
Basic static load rating	C_0	5 000 kN
Fatigue load limit	P_u	490 kN

Mass

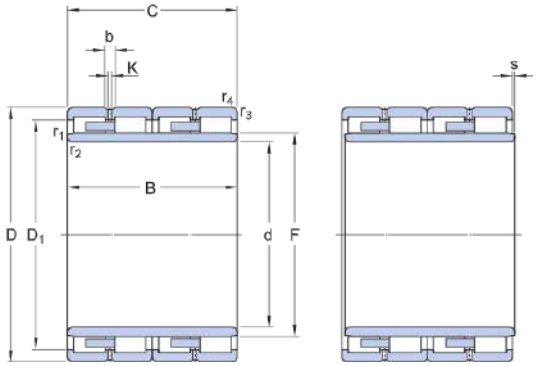
Mass bearing	87.2 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0107
Separable bearing ring	LBC4-0107

Technical Specification

This bearing can replace	314190
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	160 mm	Bore diameter
D	230 mm	Outside diameter
B	130 mm	Total bearing width over inner ring(s)
C	130 mm	Total bearing width over outer ring(s)
D_1	≈ 209.3 mm	Outer ring shoulder diameter
F	180 mm	Raceway diameter inner ring
$r_{1,2}$	min. 1.5 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the o

Calculation data

Basic dynamic load rating	C	965 kN
Basic static load rating	C_0	1 340 kN
Fatigue load limit	P_u	143 kN

Mass

Mass bearing	17.3 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0108
Separable bearing ring	LBC4-0108

BC4-0109

Four-row cylindrical roller bearing, for long products

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- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	270 mm
Width	200 mm

Performance

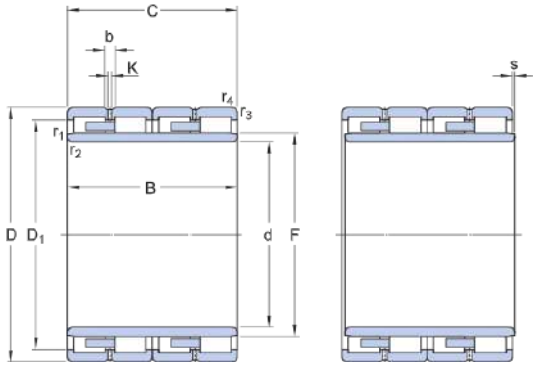
Basic dynamic load rating	1 800 kN
Basic static load rating	3 150 kN
Limiting speed	2 600 r/min
Reference speed	1 800 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	314199 B
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	190 mm	Bore diameter
D	270 mm	Outside diameter
B	200 mm	Total bearing width over inner ring(s)
C	200 mm	Total bearing width over outer ring(s)
D_1	≈ 241.5 mm	Outer ring shoulder diameter
F	212 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 800 kN
Basic static load rating	C_0	3 150 kN
Fatigue load limit	P_u	325 kN

Mass

Mass bearing	37.2 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0109
Separable bearing ring	LBC4-0109

BC4-0110

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	370 mm
Width	220 mm

Performance

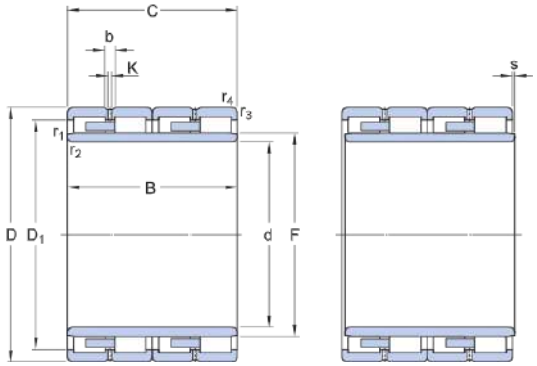
Basic dynamic load rating	2 700 kN
Basic static load rating	4 650 kN
Limiting speed	1 900 r/min
Reference speed	1 300 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	313823
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	260 mm	Bore diameter
D	370 mm	Outside diameter
B	220 mm	Total bearing width over inner ring(s)
C	220 mm	Total bearing width over outer ring(s)
D_1	≈ 332 mm	Outer ring shoulder diameter
F	292 mm	Raceway diameter inner ring
$r_{1,2}$	min. 3 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	2 700 kN
Basic static load rating	C_0	4 650 kN
Fatigue load limit	P_u	465 kN

Mass

Mass bearing	77.9 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0110
Separable bearing ring	LBC4-0110

BC4-0112

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	230 mm
Outside diameter	330 mm
Width	206 mm

Performance

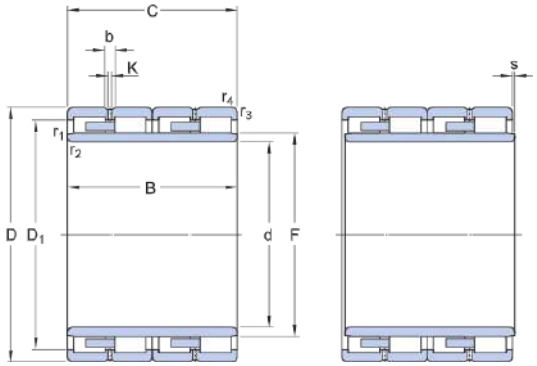
Basic dynamic load rating	2 320 kN
Basic static load rating	4 000 kN
Limiting speed	2 200 r/min
Reference speed	1 400 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	313824
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	230 mm	Bore diameter
D	330 mm	Outside diameter
B	206 mm	Total bearing width over inner ring(s)
C	206 mm	Total bearing width over outer ring(s)
D_1	≈ 297 mm	Outer ring shoulder diameter
F	260 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	2 320 kN
Basic static load rating	C_0	4 000 kN
Fatigue load limit	P_u	390 kN

Mass

Mass bearing	58.6 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0112
Separable bearing ring	LBC4-0112

BC4-0113

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	270 mm
Width	170 mm

Performance

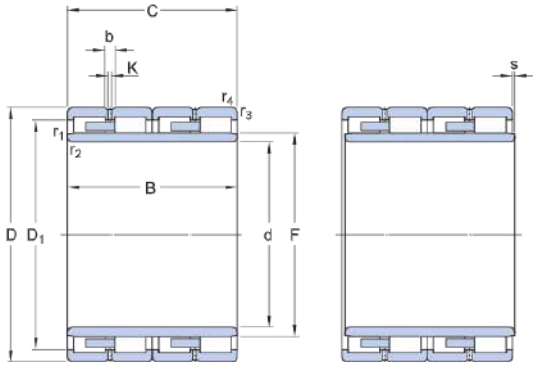
Basic dynamic load rating	1 430 kN
Basic static load rating	2 700 kN
Limiting speed	2 600 r/min
Reference speed	1 700 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Technical Specification

This bearing can replace	314553
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	200 mm	Bore diameter
D	270 mm	Outside diameter
B	170 mm	Total bearing width over inner ring(s)
C	170 mm	Total bearing width over outer ring(s)
D_1	≈ 247.6 mm	Outer ring shoulder diameter
F	222 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 430 kN
Basic static load rating	C_0	2 700 kN
Fatigue load limit	P_u	275 kN

Mass

Mass bearing	28.5 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0113
Separable bearing ring	LBC4-0095

BC4-0114

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	260 mm
Width	168 mm

Performance

Basic dynamic load rating	1 560 kN
Basic static load rating	2 500 kN
Limiting speed	2 800 r/min
Reference speed	1 900 r/min
SKF performance class	SKF Explorer

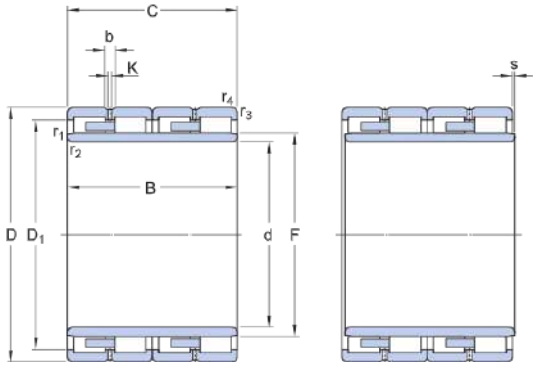
Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Sealing	Without

Technical Specification

This bearing can replace	313812
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	180 mm	Bore diameter
D	260 mm	Outside diameter
B	168 mm	Total bearing width over inner ring(s)
C	168 mm	Total bearing width over outer ring(s)
D_1	≈ 232.8 mm	Outer ring shoulder diameter
F	202 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 560 kN
Basic static load rating	C_0	2 500 kN
Fatigue load limit	P_u	265 kN

Mass

Mass bearing	30.1 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0114
Separable bearing ring	LBC4-0114

BC4-0116

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	280 mm
Width	200 mm

Performance

Basic dynamic load rating	2 080 kN
Basic static load rating	3 250 kN
Limiting speed	2 600 r/min
Reference speed	1 700 r/min
SKF performance class	SKF Explorer

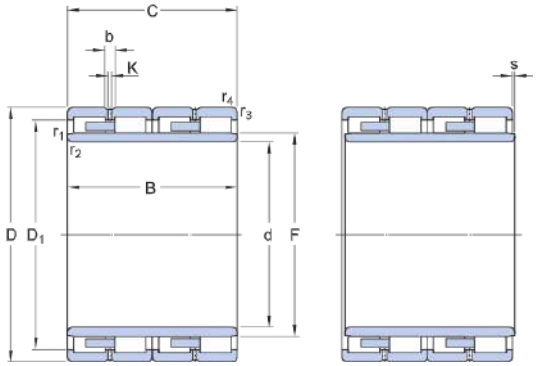
Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Sealing	Without

Technical Specification

This bearing can replace	314049 C
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	190 mm	Bore diameter
D	280 mm	Outside diameter
B	200 mm	Total bearing width over inner ring(s)
C	200 mm	Total bearing width over outer ring(s)
D_1	≈ 251 mm	Outer ring shoulder diameter
F	214 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	2 080 kN
Basic static load rating	C_0	3 250 kN
Fatigue load limit	P_u	335 kN

Mass

Mass bearing	41.5 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0116
Separable bearing ring	LBC4-0116

BC4-0117

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	310 mm
Width	192 mm

Performance

Basic dynamic load rating	1 900 kN
Basic static load rating	3 550 kN
Limiting speed	2 200 r/min
Reference speed	1 500 r/min
SKF performance class	SKF Explorer

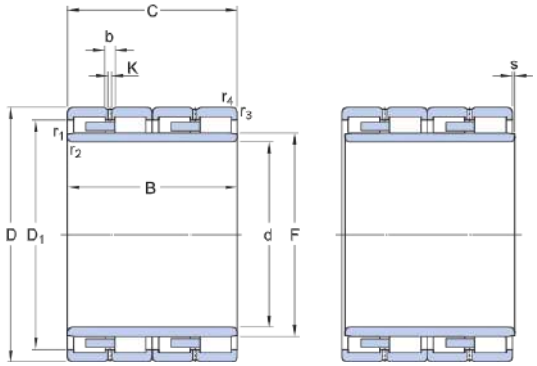
Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Sealing	Without

Technical Specification

This bearing can replace	313839
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	220 mm	Bore diameter
D	310 mm	Outside diameter
B	192 mm	Total bearing width over inner ring(s)
C	192 mm	Total bearing width over outer ring(s)
D_1	≈ 279.9 mm	Outer ring shoulder diameter
F	246 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2.1 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 900 kN
Basic static load rating	C_0	3 550 kN
Fatigue load limit	P_u	355 kN

Mass

Mass bearing	49 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0117
Separable bearing ring	LBC4-0117

BC4-0118

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	230 mm
Width	160 mm

Performance

Basic dynamic load rating	1 370 kN
Basic static load rating	2 360 kN
Limiting speed	3 000 r/min
Reference speed	2 000 r/min
SKF performance class	SKF Explorer

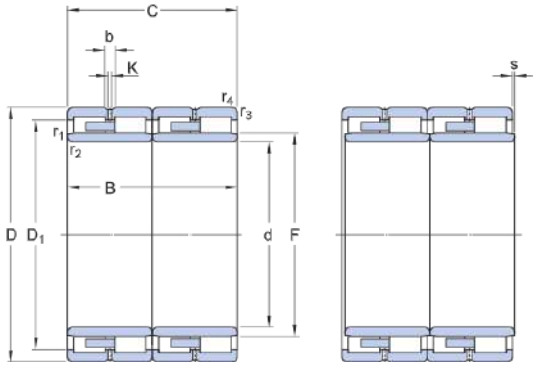
Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With

Sealing	Without

Technical Specification

This bearing can replace	BC2B 322340/HB1VJ202
SKF performance class	SKF Explorer
Design variant/feature	BC4.7/W33
Bore type	Cylindrical



Dimensions

d	170 mm	Bore diameter
D	230 mm	Outside diameter
B	160 mm	Total bearing width over inner ring(s)
C	160 mm	Total bearing width over outer ring(s)
D_1	≈ 211.5 mm	Outer ring shoulder diameter
F	185.5 mm	Raceway diameter inner ring
b	6 mm	Width of annular groove
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring
s	2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 370 kN
Basic static load rating	C_0	2 360 kN
Fatigue load limit	P_u	255 kN

Mass

Mass bearing	18.3 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0118
Separable bearing ring	LBC4-0118

BC4-0119

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	240 mm
Width	130 mm

Performance

Basic dynamic load rating	1 140 kN
Basic static load rating	1 830 kN
Limiting speed	3 000 r/min
Reference speed	2 000 r/min
SKF performance class	SKF Explorer

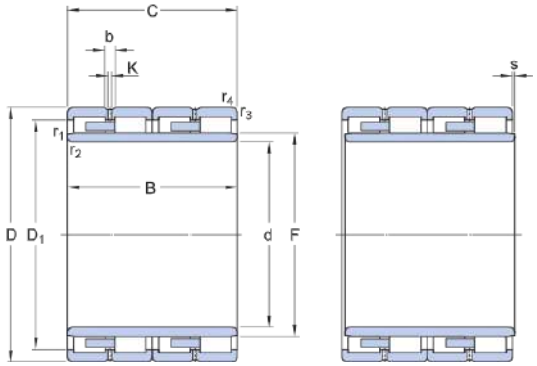
Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without

Sealing	Without

Technical Specification

This bearing can replace	BC4B 635121
SKF performance class	SKF Explorer
Design variant/feature	BC4.1/W0
Bore type	Cylindrical



Dimensions

d	170 mm	Bore diameter
D	240 mm	Outside diameter
B	130 mm	Total bearing width over inner ring(s)
C	130 mm	Total bearing width over outer ring(s)
D_1	≈ 217.2 mm	Outer ring shoulder diameter
F	190 mm	Raceway diameter inner ring
$r_{1,2}$	min. 2 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring
s	1.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	1 140 kN
Basic static load rating	C_0	1 830 kN
Fatigue load limit	P_u	196 kN

Mass

Mass bearing	19 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0119
Separable bearing ring	LBC4-0119

BC4-0124

Four-row cylindrical roller bearing, for long products

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The bearings are optimized for operating conditions typically found in long product mills, where they can provide increased performance and reduced total cost of ownership. Different design combinations of outer rings, inner rings, flange rings, etc. are available to fulfil different application demands. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- Exceptional high radial load carrying capacity
- Low friction and long service life
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	420 mm
Width	300 mm

Performance

Basic dynamic load rating	4 400 kN
Basic static load rating	8 300 kN
Limiting speed	1 600 r/min
Reference speed	1 100 r/min
SKF performance class	SKF Explorer

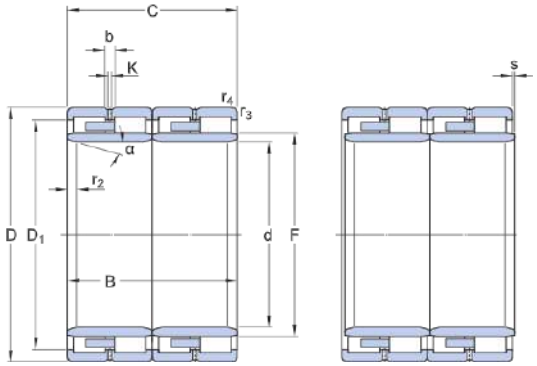
Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With

Sealing	Without

Technical Specification

This bearing can replace	314484 D
SKF performance class	SKF Explorer
Design variant/feature	BC4.7/W33WO
Bore type	Cylindrical



Dimensions

d	300 mm	Bore diameter
D	420 mm	Outside diameter
B	300 mm	Total bearing width over inner ring(s)
C	300 mm	Total bearing width over outer ring(s)
D_1	≈ 378.2 mm	Outer ring shoulder diameter
F	332 mm	Raceway diameter inner ring
b	11.1 mm	Width of annular groove
K	6 mm	Diameter lubrication hole (outer ring)
r_2	min. 6.4 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring
s	3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Calculation data

Basic dynamic load rating	C	4 400 kN
Basic static load rating	C_0	8 300 kN
Fatigue load limit	P_u	800 kN

Mass

Mass bearing	134 kg

Included products

Bearing ring with roller and cage assembly	RBC4-0124
Separable bearing ring	LBC4-0094

BC4-8022/HA1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	355.6 mm
Outside diameter	482.6 mm
Width	269.87 mm

Performance

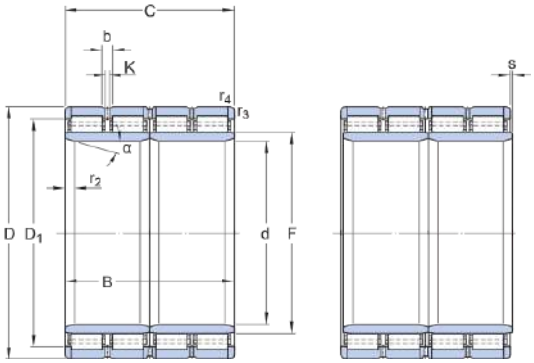
Basic dynamic load rating	2 970 kN
Basic static load rating	6 400 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	355.6 mm	Bore diameter
D	482.6 mm	Outside diameter
B	269.87 mm	Total bearing width over inner ring(s)
C	269.87 mm	Total bearing width over outer ring(s)
D_1	≈ 440 mm	Outer ring shoulder diameter
F	388 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 10 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	2 970 kN
Basic static load rating	C_0	6 400 kN
Fatigue load limit	P_u	585 kN
Calculation factor	k_r	360

Mass

Mass bearing	150 kg

BC4-8050

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	450 mm
Width	250 mm

Performance

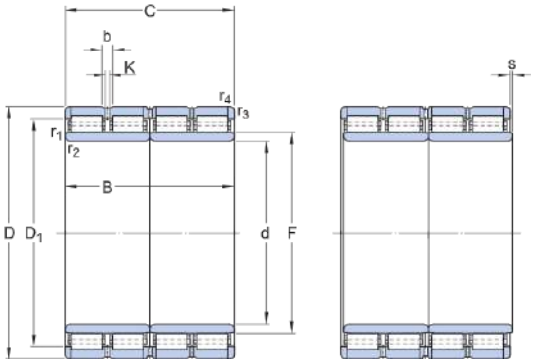
Basic dynamic load rating	2 550 kN
Basic static load rating	6 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	340 mm	Bore diameter
D	450 mm	Outside diameter
B	250 mm	Total bearing width over inner ring(s)
C	250 mm	Total bearing width over outer ring(s)
D_1	≈ 411 mm	Outer ring shoulder diameter
F	369 mm	Raceway diameter inner ring
b	13.9 mm	Width of annular groove
K	7.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 5 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	2 550 kN
Basic static load rating	C_0	6 000 kN
Fatigue load limit	P_u	550 kN
Calculation factor	k_r	380

Mass

Mass bearing	115 kg

BC4B 322261/HB1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	500 mm
Width	370 mm

Performance

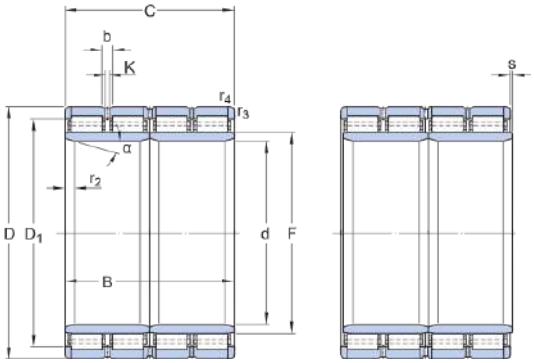
Basic dynamic load rating	5 230 kN
Basic static load rating	11 800 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	340 mm	Bore diameter
D	500 mm	Outside diameter
B	370 mm	Total bearing width over inner ring(s)
C	370 mm	Total bearing width over outer ring(s)
D_1	≈ 451.75 mm	Outer ring shoulder diameter
F	385 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 16 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	5 230 kN
Basic static load rating	C_0	11 800 kN
Fatigue load limit	P_u	1 080 kN
Calculation factor	k_r	650

Mass

Mass bearing	260 kg

BC4B 322777/HB1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	350 mm
Outside diameter	500 mm
Width	410 mm

Performance

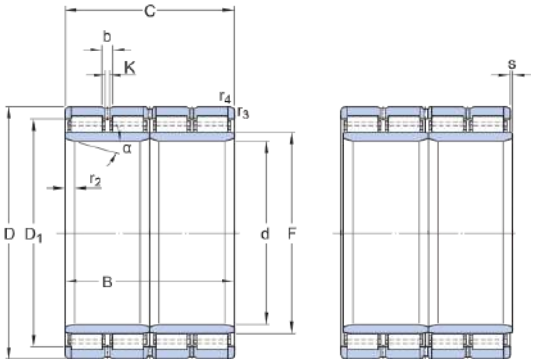
Basic dynamic load rating	5 830 kN
Basic static load rating	13 700 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	350 mm	Bore diameter
D	500 mm	Outside diameter
B	410 mm	Total bearing width over inner ring(s)
C	410 mm	Total bearing width over outer ring(s)
D_1	≈ 455 mm	Outer ring shoulder diameter
F	388 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 10 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	5 830 kN
Basic static load rating	C_0	13 700 kN
Fatigue load limit	P_u	1 200 kN
Calculation factor	k_r	750

Mass

Mass bearing	285 kg

BC4B 326909 A/HA3

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	350 mm
Outside diameter	520 mm
Width	300 mm

Performance

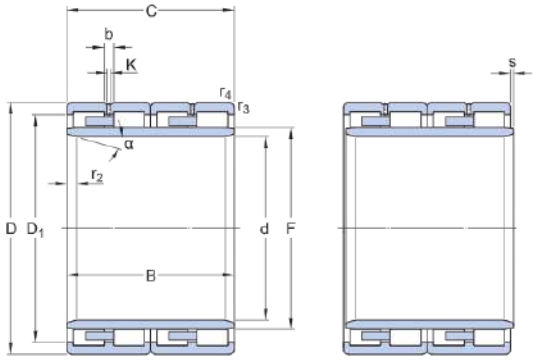
Basic dynamic load rating	4 680 kN
Basic static load rating	9 000 kN
Limiting speed	1 300 r/min
Reference speed	850 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C2
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.1/W33GWI
Bore type	Cylindrical with helical groove



Dimensions

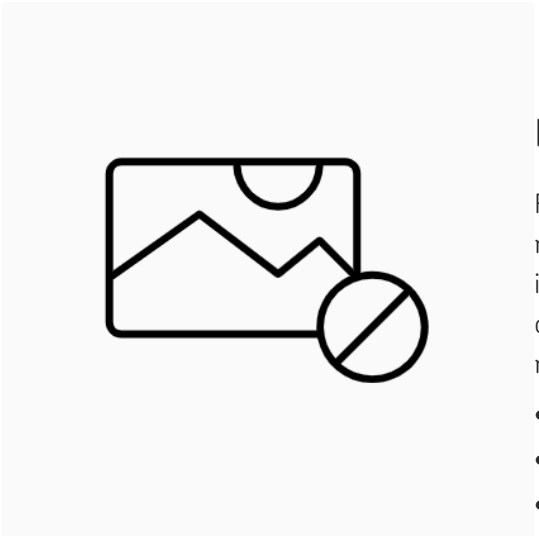
d	350 mm	Bore diameter
D	520 mm	Outside diameter
B	300 mm	Total bearing width over inner ring(s)
C	300 mm	Total bearing width over outer ring(s)
D_1	≈ 467.95 mm	Outer ring shoulder diameter
F	401 mm	Raceway diameter inner ring
E	485 mm	Raceway diameter outer ring
b	11.6 mm	Width of annular groove
K	6 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 10 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	4 680 kN
Basic static load rating	C_0	9 000 kN
Fatigue load limit	P_u	800 kN
Calculation factor	k_r	0

Mass

Mass bearing	220 kg



BC4B 457939 VAA

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	356.67 mm
Outside diameter	550 mm
Width	400 mm

Performance

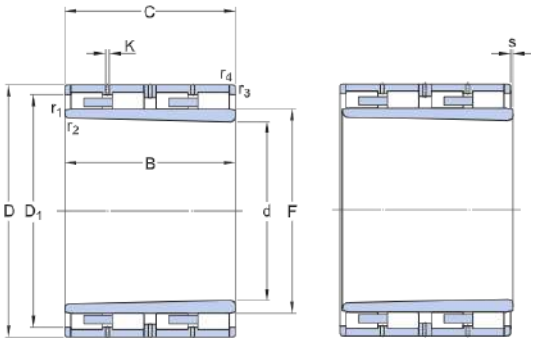
Basic dynamic load rating	5 280 kN
Basic static load rating	15 000 kN

Properties

Bearing part	Complete bearing
Bore type	Tapered 1:12
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4T.3/W20
Bore type	Tapered 1:12



Dimensions

d	356.67 mm	Bore diameter
D	550 mm	Outside diameter
B	400 mm	Total bearing width over inner ring(s)
C	400 mm	Total bearing width over outer ring(s)
D_1	≈ 482.6 mm	Bore diameter loose flange ring
F	423.7 mm	Raceway diameter inner ring
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 3.2 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring
β	45 °	Chamfer angle outer ring

Calculation data

Basic dynamic load rating	C	5 280 kN
Basic static load rating	C_0	15 000 kN
Fatigue load limit	P_u	1 290 kN
Calculation factor	k_r	700

Mass

Mass bearing	335 kg

N 203 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	12 mm

Performance

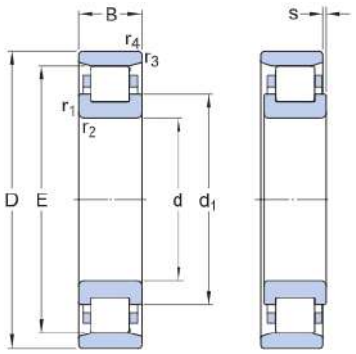
Basic dynamic load rating	20 kN
Basic static load rating	14.3 kN
Limiting speed	22 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

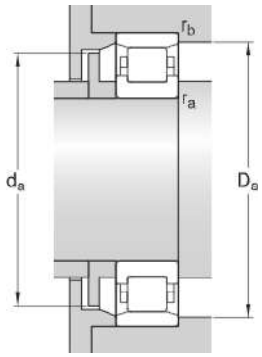
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	12 mm	Width
d_1	≈ 25 mm	Shoulder diameter of inner ring
E	35.1 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 20.7 mm	Diameter of spacer sleeve
d_a	max. 33 mm	Diameter of spacer sleeve
D_a	min. 37 mm	Diameter of housing abutment
D_a	max. 37.1 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet
r_b	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	20 kN
Basic static load rating	C_0	14.3 kN
Fatigue load limit	P_u	1.73 kN

Reference speed		20 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.066 kg

N 203 ECPH

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	12 mm

Performance

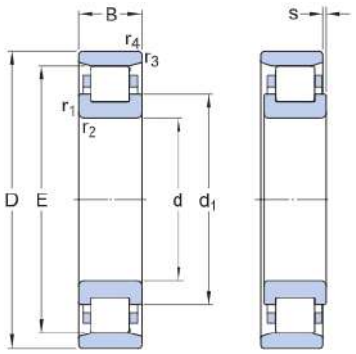
Basic dynamic load rating	20 kN
Basic static load rating	14.3 kN
Limiting speed	22 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

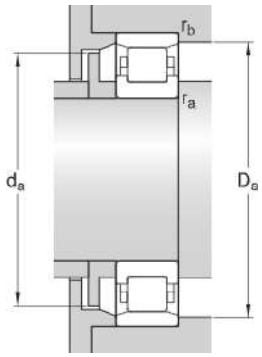
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	12 mm	Width
d_1	≈ 25 mm	Shoulder diameter of inner ring
E	35.1 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 20.7 mm	Diameter of spacer sleeve
d_a	max. 33 mm	Diameter of spacer sleeve
D_a	min. 37 mm	Diameter of housing abutment
D_a	max. 37.1 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet
r_b	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	20 kN
Basic static load rating	C_0	14.3 kN
Fatigue load limit	P_u	1.73 kN

Reference speed		20 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.065 kg

N 204 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

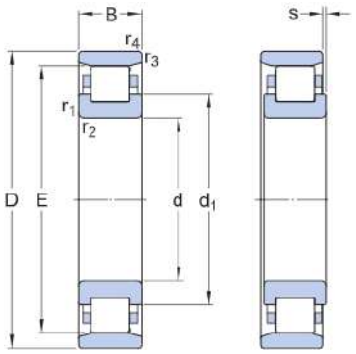
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	19 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

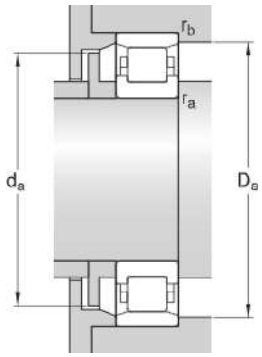
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 29.7 mm	Shoulder diameter of inner ring
E	41.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 25 mm	Diameter of spacer sleeve
d_a	max. 40 mm	Diameter of spacer sleeve
D_a	min. 43 mm	Diameter of housing abutment
D_a	max. 43.5 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN
Fatigue load limit	P_u	2.75 kN

Reference speed		17 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.11 kg

N 205 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

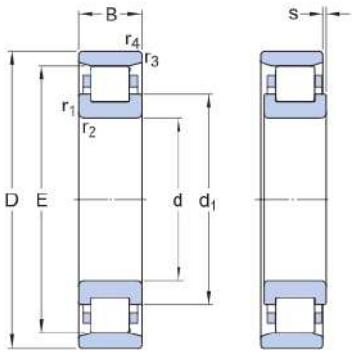
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	16 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

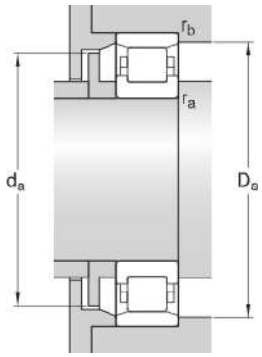
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 34.7 mm	Shoulder diameter of inner ring
E	46.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 29.9 mm	Diameter of spacer sleeve
d_a	max. 45 mm	Diameter of spacer sleeve
D_a	min. 48 mm	Diameter of housing abutment
D_a	max. 48.5 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN
Fatigue load limit	P_u	3.35 kN

Reference speed		15 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.13 kg

N 206 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

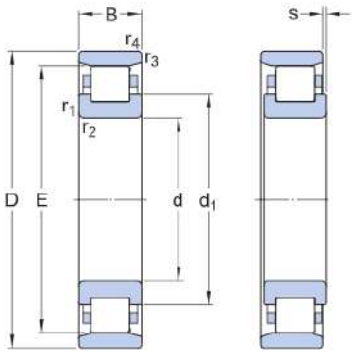
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

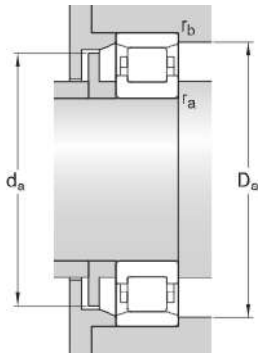
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
E	55.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_a	max. 54 mm	Diameter of spacer sleeve
D_a	min. 57 mm	Diameter of housing abutment
D_a	max. 58.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.5 kN

Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.2 kg

N 207 ECM

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

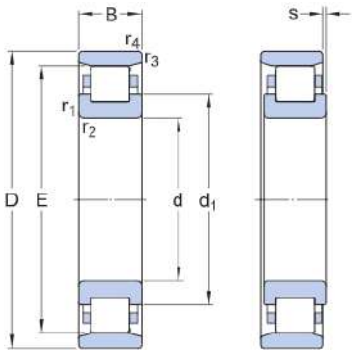
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

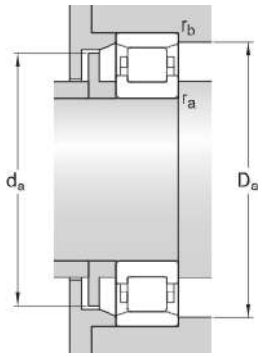
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
E	64 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 62 mm	Diameter of spacer sleeve
D_a	min. 66 mm	Diameter of housing abutment
D_a	max. 67.2 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.35 kg

N 207 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

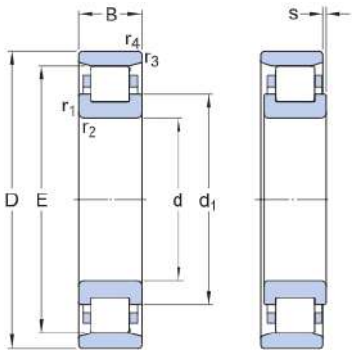
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

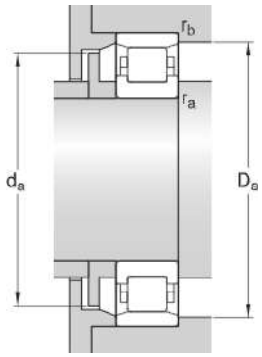
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
E	64 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 62 mm	Diameter of spacer sleeve
D_a	min. 66 mm	Diameter of housing abutment
D_a	max. 67.2 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.3 kg

N 208 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

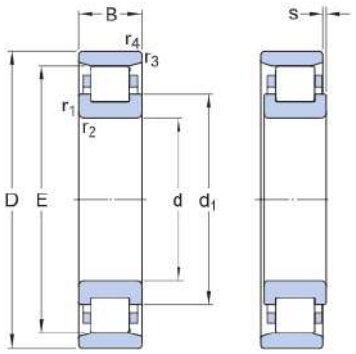
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

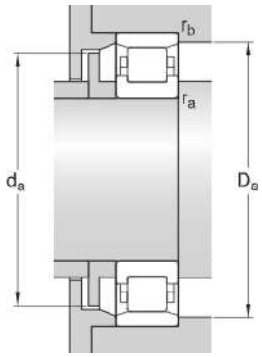
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
E	71.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 69 mm	Diameter of spacer sleeve
D_a	min. 73 mm	Diameter of housing abutment
D_a	max. 74.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.37 kg

N 208 ECPH

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

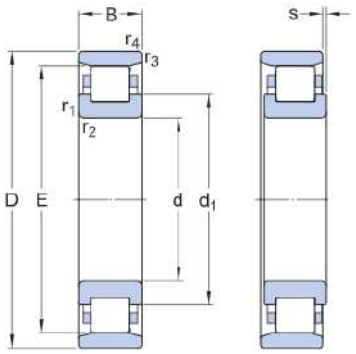
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

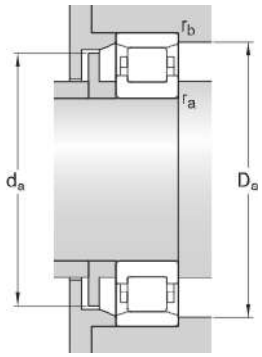
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
E	71.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 69 mm	Diameter of spacer sleeve
D_a	min. 73 mm	Diameter of housing abutment
D_a	max. 74.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.36 kg

N 209 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

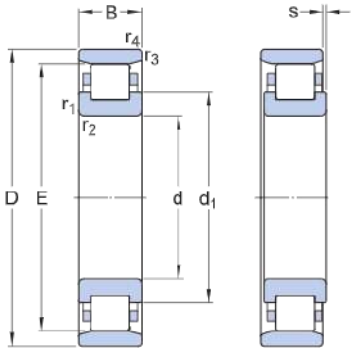
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

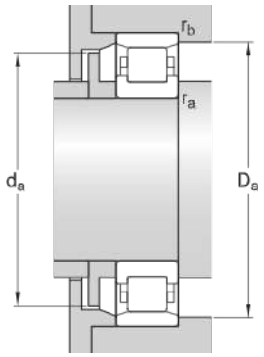
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
E	76.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 74 mm	Diameter of spacer sleeve
D_a	min. 78 mm	Diameter of housing abutment
D_a	max. 79.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.43 kg

N 210 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

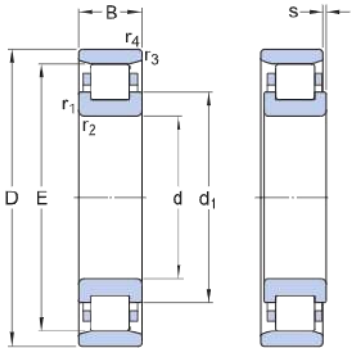
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Limiting speed	9 000 r/min
Reference speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

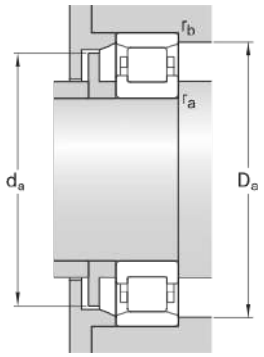
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
E	81.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 79 mm	Diameter of spacer sleeve
D_a	min. 83 mm	Diameter of housing abutment
D_a	max. 84 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.8 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.48 kg

N 211 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

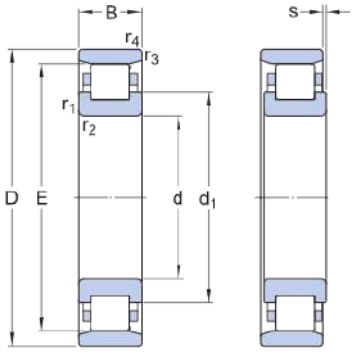
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	0
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

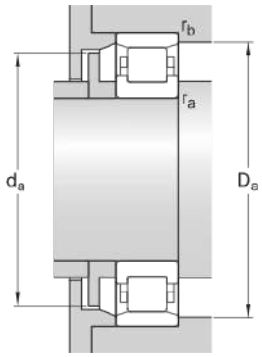
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
E	90 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 88 mm	Diameter of spacer sleeve
D_a	min. 92 mm	Diameter of housing abutment
D_a	max. 93 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN
Fatigue load limit	P_u	12.2 kN

Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.68 kg

N 303 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	47 mm
Width	14 mm

Performance

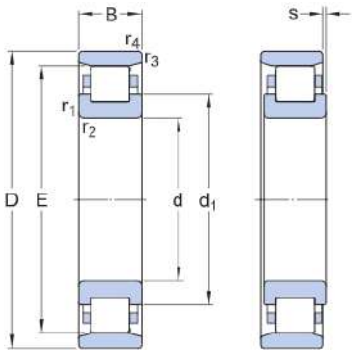
Basic dynamic load rating	28.5 kN
Basic static load rating	20.4 kN
Limiting speed	20 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

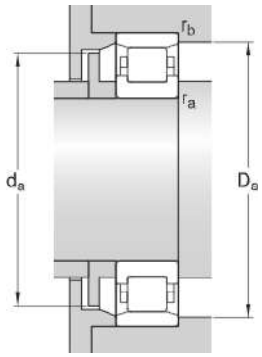
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 27.7 mm	Shoulder diameter of inner ring
E	40.2 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 22.1 mm	Diameter of spacer sleeve
d_a	max. 38 mm	Diameter of spacer sleeve
D_a	min. 42 mm	Diameter of housing abutment
D_a	max. 42.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	20.4 kN
Fatigue load limit	P_u	2.55 kN

Reference speed		17 000 r/min
Limiting speed		20 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.12 kg

N 304 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width	15 mm

Performance

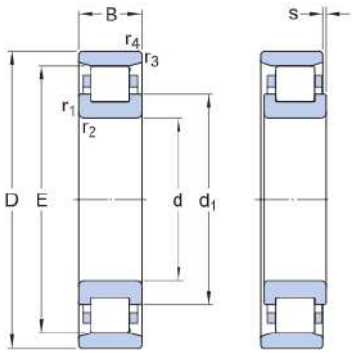
Basic dynamic load rating	35.5 kN
Basic static load rating	26 kN
Limiting speed	18 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

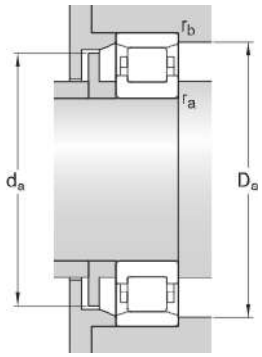
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 31.2 mm	Shoulder diameter of inner ring
E	45.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 0.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 26.1 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
D_a	min. 47 mm	Diameter of housing abutment
D_a	max. 48 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	35.5 kN
Basic static load rating	C_0	26 kN
Fatigue load limit	P_u	3.25 kN

Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.15 kg

N 305 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

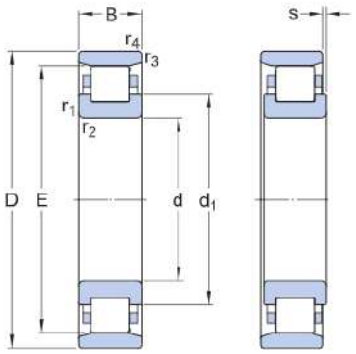
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

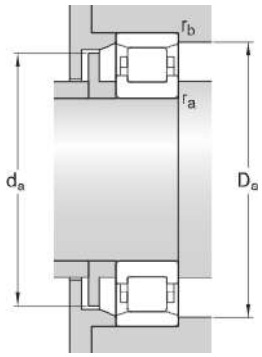
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
E	54 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 52 mm	Diameter of spacer sleeve
D_a	min. 56 mm	Diameter of housing abutment
D_a	max. 56.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.23 kg

N 306 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

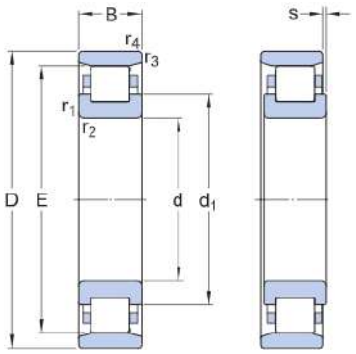
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

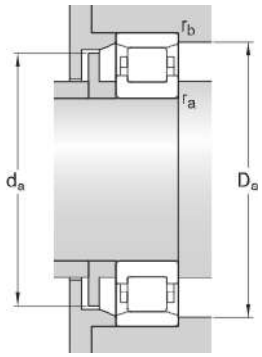
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
E	62.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 61 mm	Diameter of spacer sleeve
D_a	min. 64 mm	Diameter of housing abutment
D_a	max. 65.5 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.36 kg

N 307 ECM

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

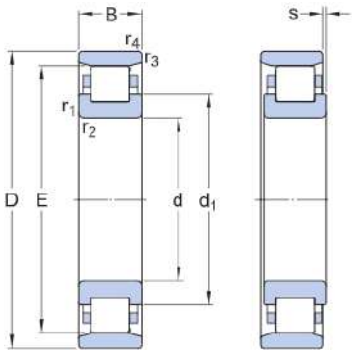
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

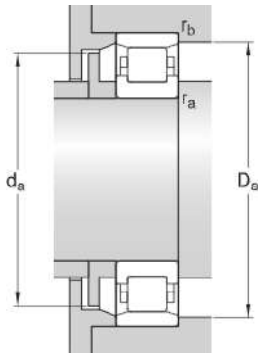
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
E	70.2 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 68 mm	Diameter of spacer sleeve
D_a	min. 72 mm	Diameter of housing abutment
D_a	max. 73.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.4 kg

N 307 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

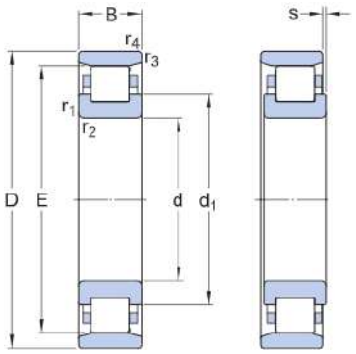
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

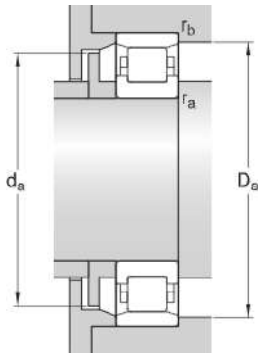
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
E	70.2 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 68 mm	Diameter of spacer sleeve
D_a	min. 72 mm	Diameter of housing abutment
D_a	max. 73.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.48 kg

N 308 ECM

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

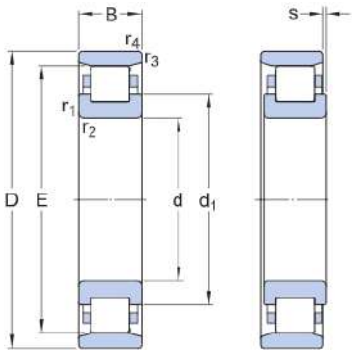
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

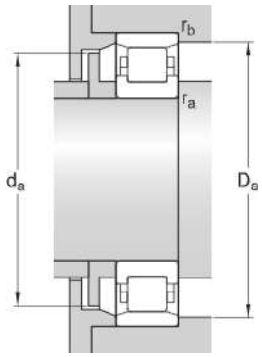
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
E	80 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 78 mm	Diameter of spacer sleeve
D_a	min. 82 mm	Diameter of housing abutment
D_a	max. 83.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.77 kg

N 308 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

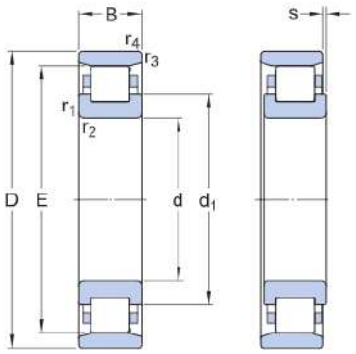
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

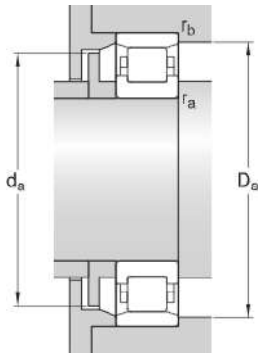
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
E	80 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 78 mm	Diameter of spacer sleeve
D_a	min. 82 mm	Diameter of housing abutment
D_a	max. 83.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.63 kg

N 309 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

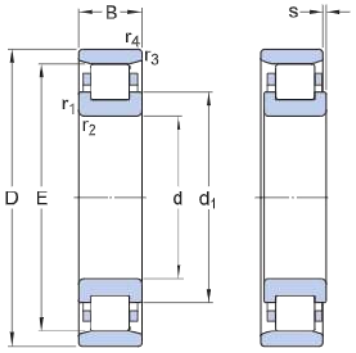
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

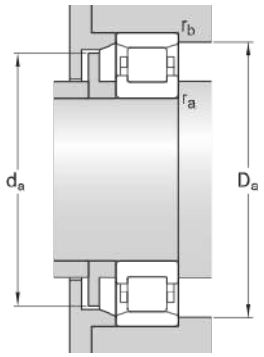
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
E	88.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 86 mm	Diameter of spacer sleeve
D_a	min. 91 mm	Diameter of housing abutment
D_a	max. 92.3 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.88 kg

N 310 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

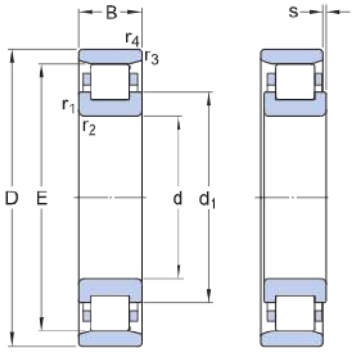
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Limiting speed	8 000 r/min
Reference speed	6 700 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

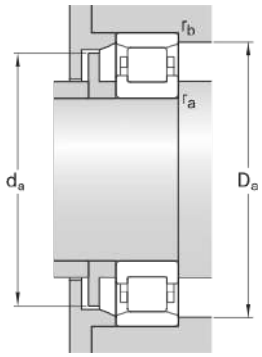
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
E	97 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 95 mm	Diameter of spacer sleeve
D_a	min. 99 mm	Diameter of housing abutment
D_a	max. 101 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.11 kg

N 311 ECM

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	29 mm

Performance

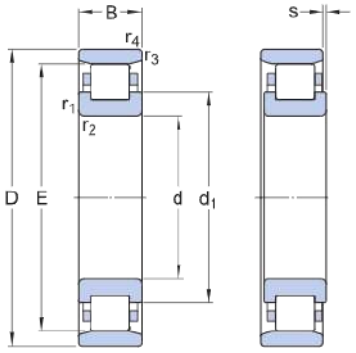
Basic dynamic load rating	156 kN
Basic static load rating	143 kN
Reference speed	6 000 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	0
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

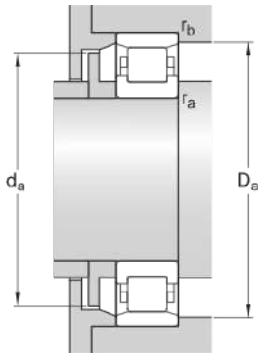
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d_1	≈ 77.5 mm	Shoulder diameter of inner ring
E	106.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 65 mm	Diameter of spacer sleeve
d_a	max. 104 mm	Diameter of spacer sleeve
D_a	min. 109 mm	Diameter of housing abutment
D_a	max. 111 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	143 kN
Fatigue load limit	P_u	18.6 kN

Reference speed		6 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.66 kg

N 311 ECP

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	29 mm

Performance

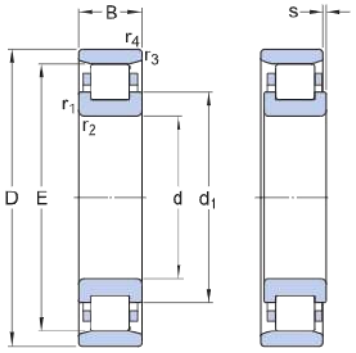
Basic dynamic load rating	156 kN
Basic static load rating	143 kN
Reference speed	6 000 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	0
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

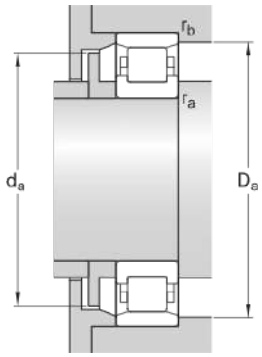
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d_1	≈ 77.5 mm	Shoulder diameter of inner ring
E	106.5 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 65 mm	Diameter of spacer sleeve
d_a	max. 104 mm	Diameter of spacer sleeve
D_a	min. 109 mm	Diameter of housing abutment
D_a	max. 111 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	143 kN
Fatigue load limit	P_u	18.6 kN

Reference speed		6 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.46 kg

N 2207 ECM

Single row cylindrical roller bearing, N design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the inner ring and no flanges on the outer ring, N design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

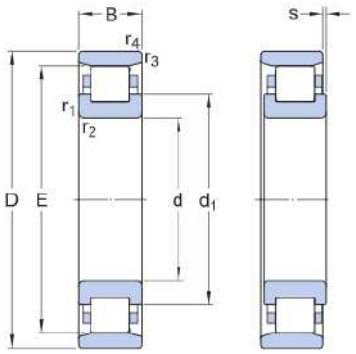
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

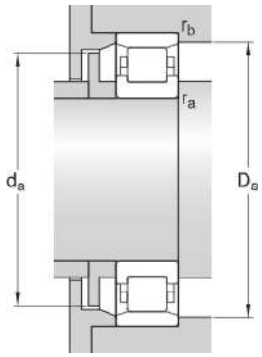
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
E	64 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 62 mm	Diameter of spacer sleeve
D_a	min. 66 mm	Diameter of housing abutment
D_a	max. 67.2 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.16
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.5 kg

NCF 2228 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	250 mm
Width	68 mm

Performance

Basic dynamic load rating	680 kN
Basic static load rating	880 kN
Limiting speed	3 600 r/min
Reference speed	2 800 r/min
SKF performance class	SKF Explorer

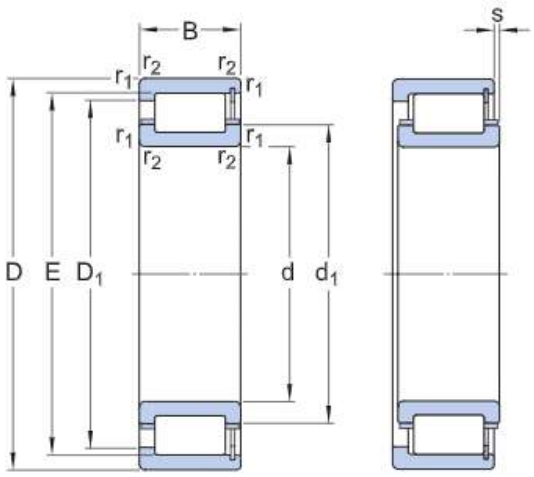
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

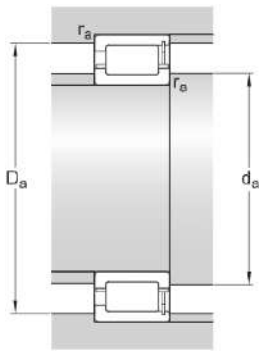
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	140 mm	Bore diameter
D	250 mm	Outside diameter
B	68 mm	Width
d_1	≈ 179.7 mm	Shoulder diameter inner ring
D_1	≈ 215.7 mm	Shoulder diameter outer ring
E	225 mm	Raceway diameter outer ring
s	max. 4.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 154 mm	Abutment diameter shaft
d_a	max. 174 mm	Abutment diameter shaft
D_a	min. 220 mm	Abutment diameter housing
D_a	max. 235 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	680 kN
Basic static load rating	C_0	880 kN
Fatigue load limit	P_u	96.5 kN
Reference speed		2 800 r/min
Limiting speed		3 600 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	14.5 kg

NCF 2230 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	270 mm
Width	73 mm

Performance

Basic dynamic load rating	780 kN
Basic static load rating	1 040 kN
Limiting speed	3 400 r/min
Reference speed	2 600 r/min
SKF performance class	SKF Explorer

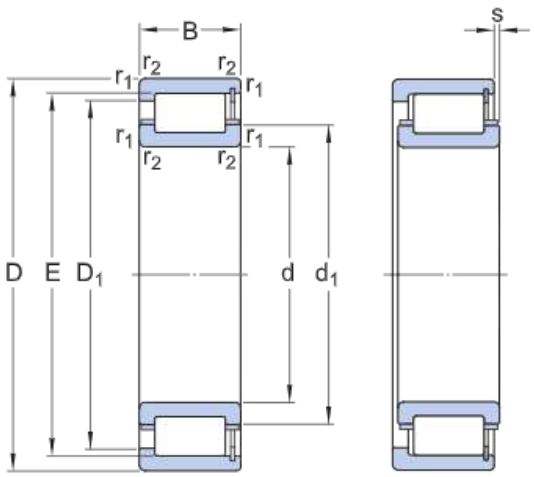
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

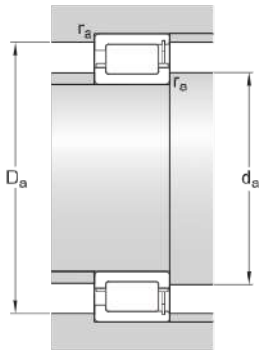
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	150 mm	Bore diameter
D	270 mm	Outside diameter
B	73 mm	Width
d_1	≈ 193.1 mm	Shoulder diameter inner ring
D_1	≈ 232.3 mm	Shoulder diameter outer ring
E	242 mm	Raceway diameter outer ring
s	max. 4.9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 164 mm	Abutment diameter shaft
d_a	max. 188 mm	Abutment diameter shaft
D_a	min. 237 mm	Abutment diameter housing
D_a	max. 254.6 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	780 kN
Basic static load rating	C_0	1 040 kN
Fatigue load limit	P_u	112 kN
Reference speed		2 600 r/min
Limiting speed		3 400 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	18 kg

NCF 2232 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	290 mm
Width	80 mm

Performance

Basic dynamic load rating	980 kN
Basic static load rating	1 270 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min
SKF performance class	SKF Explorer

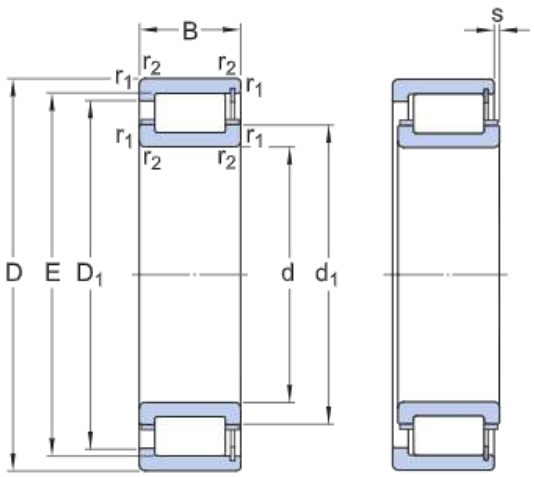
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

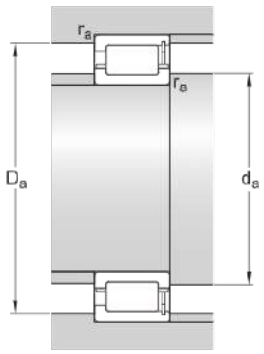
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	160 mm	Bore diameter
D	290 mm	Outside diameter
B	80 mm	Width
d_1	≈ 205.8 mm	Shoulder diameter inner ring
D_1	≈ 250 mm	Shoulder diameter outer ring
E	261 mm	Raceway diameter outer ring
s	max. 4.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 174 mm	Abutment diameter shaft
d_a	max. 199 mm	Abutment diameter shaft
D_a	min. 256 mm	Abutment diameter housing
D_a	max. 274.2 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	980 kN
Basic static load rating	C_0	1 270 kN
Fatigue load limit	P_u	134 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	23.5 kg

NCF 2234 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	310 mm
Width	86 mm

Performance

Basic dynamic load rating	1 160 kN
Basic static load rating	1 530 kN
Limiting speed	2 800 r/min
Reference speed	2 200 r/min
SKF performance class	SKF Explorer

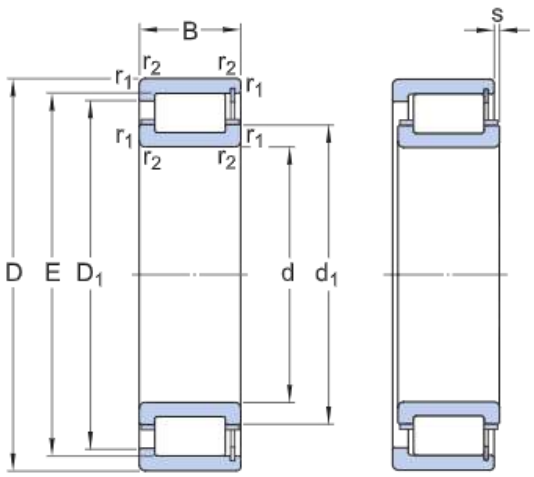
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

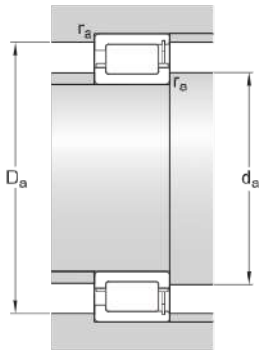
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	170 mm	Bore diameter
D	310 mm	Outside diameter
B	86 mm	Width
d_1	≈ 219.3 mm	Shoulder diameter inner ring
D_1	≈ 269.1 mm	Shoulder diameter outer ring
E	281 mm	Raceway diameter outer ring
s	max. 4.2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 187 mm	Abutment diameter shaft
d_a	max. 212 mm	Abutment diameter shaft
D_a	min. 275 mm	Abutment diameter housing
D_a	max. 292.4 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 160 kN
Basic static load rating	C_0	1 530 kN
Fatigue load limit	P_u	156 kN
Reference speed		2 200 r/min
Limiting speed		2 800 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	28 kg

NCF 2236 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	320 mm
Width	86 mm

Performance

Basic dynamic load rating	1 200 kN
Basic static load rating	1 600 kN
Limiting speed	2 800 r/min
Reference speed	2 200 r/min
SKF performance class	SKF Explorer

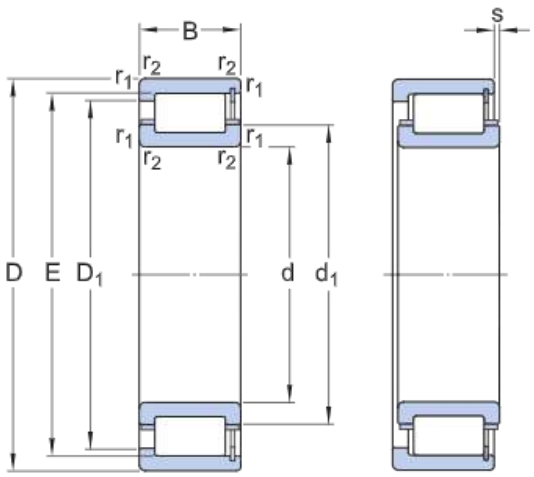
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

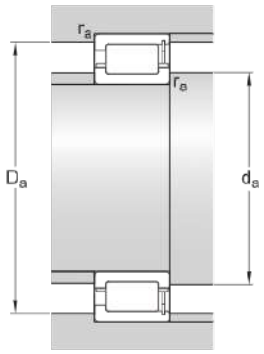
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	180 mm	Bore diameter
D	320 mm	Outside diameter
B	86 mm	Width
d_1	≈ 229.3 mm	Shoulder diameter inner ring
D_1	≈ 278.7 mm	Shoulder diameter outer ring
E	291 mm	Raceway diameter outer ring
s	max. 4.2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 197 mm	Abutment diameter shaft
d_a	max. 222 mm	Abutment diameter shaft
D_a	min. 285 mm	Abutment diameter housing
D_a	max. 302.2 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 200 kN
Basic static load rating	C_0	1 600 kN
Fatigue load limit	P_u	166 kN
Reference speed		2 200 r/min
Limiting speed		2 800 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	30 kg

NCF 2238 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	340 mm
Width	92 mm

Performance

Basic dynamic load rating	1 320 kN
Basic static load rating	1 760 kN
Limiting speed	2 600 r/min
Reference speed	2 000 r/min
SKF performance class	SKF Explorer

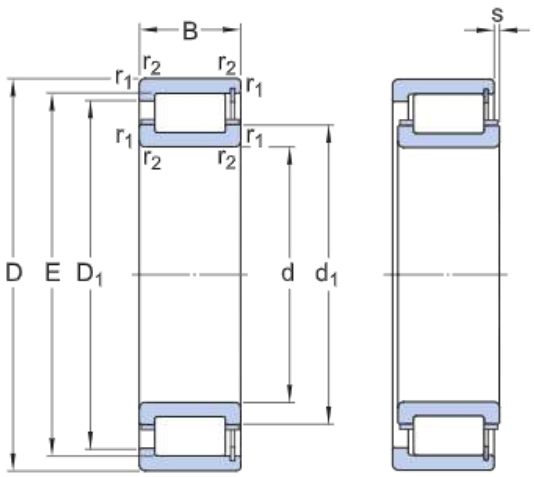
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

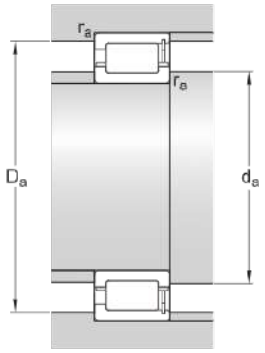
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	190 mm	Bore diameter
D	340 mm	Outside diameter
B	92 mm	Width
d_1	≈ 242.7 mm	Shoulder diameter inner ring
D_1	≈ 292.2 mm	Shoulder diameter outer ring
E	308 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 207 mm	Abutment diameter shaft
d_a	max. 235 mm	Abutment diameter shaft
D_a	min. 300 mm	Abutment diameter housing
D_a	max. 321.9 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 320 kN
Basic static load rating	C_0	1 760 kN
Fatigue load limit	P_u	180 kN
Reference speed		2 000 r/min
Limiting speed		2 600 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	36.5 kg

NCF 2240 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	360 mm
Width	98 mm

Performance

Basic dynamic load rating	1 460 kN
Basic static load rating	2 000 kN
Limiting speed	2 400 r/min
Reference speed	1 900 r/min
SKF performance class	SKF Explorer

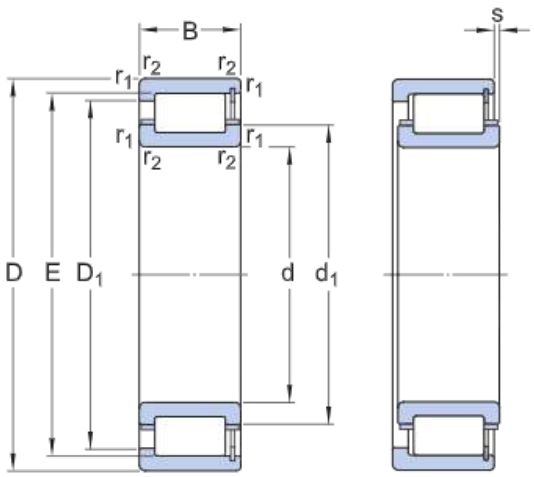
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

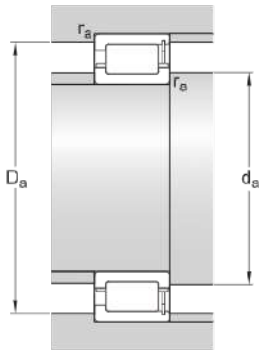
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	200 mm	Bore diameter
D	360 mm	Outside diameter
B	98 mm	Width
d_1	≈ 256.3 mm	Shoulder diameter inner ring
D_1	≈ 311.6 mm	Shoulder diameter outer ring
E	325 mm	Raceway diameter outer ring
s	max. 5.1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 217 mm	Abutment diameter shaft
d_a	max. 249 mm	Abutment diameter shaft
D_a	min. 318 mm	Abutment diameter housing
D_a	max. 341.6 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 460 kN
Basic static load rating	C_0	2 000 kN
Fatigue load limit	P_u	200 kN
Reference speed		1 900 r/min
Limiting speed		2 400 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	43 kg

NCF 2244 ECJB/PEX

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	400 mm
Width	108 mm

Performance

Basic dynamic load rating	2 000 kN
Basic static load rating	2 600 kN
Limiting speed	2 200 r/min
Reference speed	1 700 r/min
SKF performance class	SKF Explorer

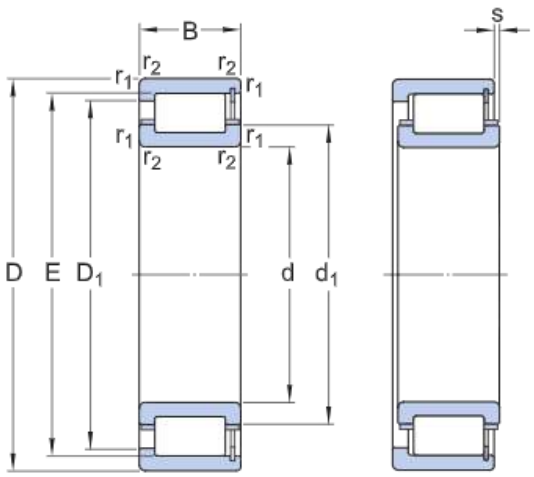
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

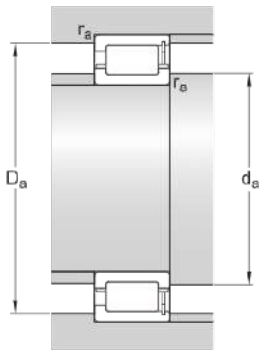
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	220 mm	Bore diameter
D	400 mm	Outside diameter
B	108 mm	Width
d_1	≈ 279 mm	Shoulder diameter inner ring
D_1	≈ 348.5 mm	Shoulder diameter outer ring
E	367 mm	Raceway diameter outer ring
s	max. 7.9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 237 mm	Abutment diameter shaft
d_a	max. 269 mm	Abutment diameter shaft
D_a	min. 358 mm	Abutment diameter housing
D_a	max. 383 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 000 kN
Basic static load rating	C_0	2 600 kN
Fatigue load limit	P_u	240 kN
Reference speed		1 700 r/min
Limiting speed		2 200 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	58.5 kg

NCF 2326 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	280 mm
Width	93 mm

Performance

Basic dynamic load rating	1 120 kN
Basic static load rating	1 340 kN
Limiting speed	3 400 r/min
Reference speed	2 400 r/min
SKF performance class	SKF Explorer

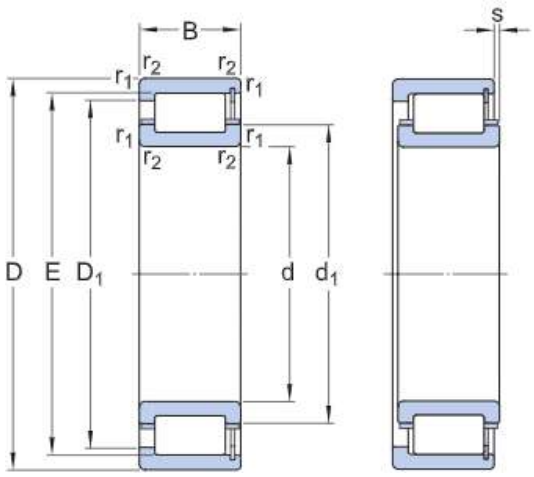
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

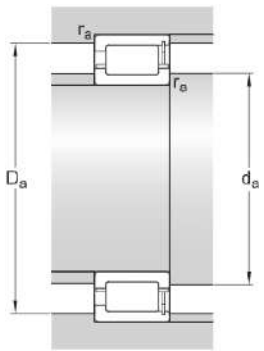
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	130 mm	Bore diameter
D	280 mm	Outside diameter
B	93 mm	Width
d_1	≈ 181.7 mm	Shoulder diameter inner ring
D_1	≈ 234.1 mm	Shoulder diameter outer ring
E	247 mm	Raceway diameter outer ring
s	max. 8.7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 147 mm	Abutment diameter shaft
d_a	max. 174 mm	Abutment diameter shaft
D_a	min. 241 mm	Abutment diameter housing
D_a	max. 261.4 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 120 kN
Basic static load rating	C_0	1 340 kN
Fatigue load limit	P_u	146 kN
Reference speed		2 400 r/min
Limiting speed		3 400 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	29 kg

NCF 2328 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	300 mm
Width	102 mm

Performance

Basic dynamic load rating	1 250 kN
Basic static load rating	1 530 kN
Limiting speed	3 200 r/min
Reference speed	2 400 r/min
SKF performance class	SKF Explorer

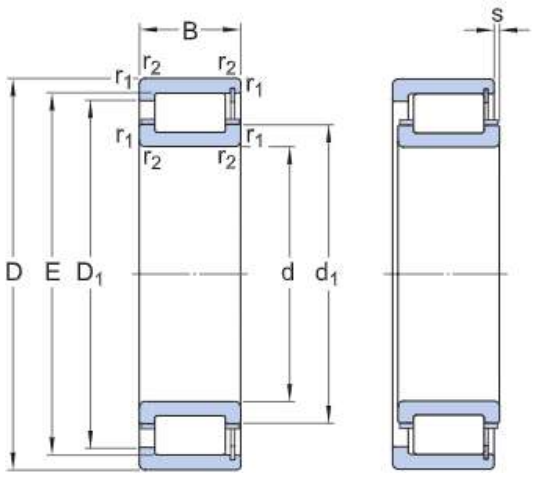
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

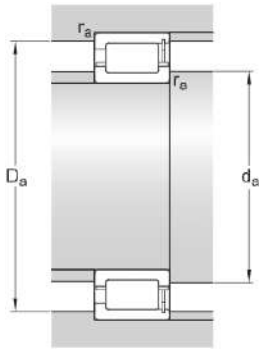
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	140 mm	Bore diameter
D	300 mm	Outside diameter
B	102 mm	Width
d_1	≈ 195.7 mm	Shoulder diameter inner ring
D_1	≈ 250.7 mm	Shoulder diameter outer ring
E	264 mm	Raceway diameter outer ring
s	max. 9.7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 157 mm	Abutment diameter shaft
d_a	max. 188 mm	Abutment diameter shaft
D_a	min. 257 mm	Abutment diameter housing
D_a	max. 282.5 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 250 kN
Basic static load rating	C_0	1 530 kN
Fatigue load limit	P_u	163 kN
Reference speed		2 400 r/min
Limiting speed		3 200 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	35.5 kg

NCF 2330 ECJB

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	320 mm
Width	108 mm

Performance

Basic dynamic load rating	1 430 kN
Basic static load rating	1 760 kN
Limiting speed	3 000 r/min
Reference speed	2 200 r/min
SKF performance class	SKF Explorer

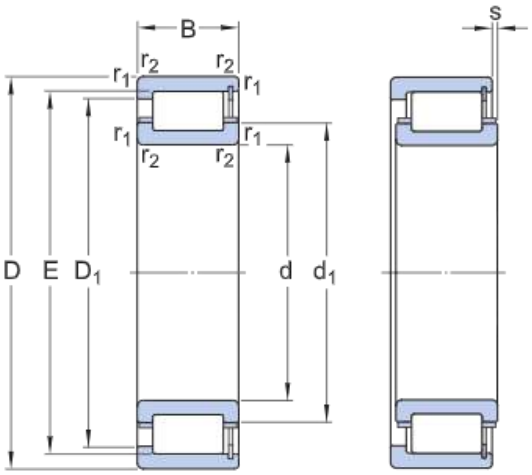
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

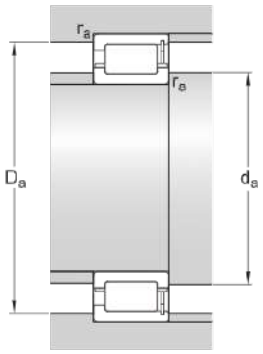
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	150 mm	Bore diameter
D	320 mm	Outside diameter
B	108 mm	Width
d_1	≈ 209.5 mm	Shoulder diameter inner ring
D_1	≈ 268.4 mm	Shoulder diameter outer ring
E	283 mm	Raceway diameter outer ring
s	max. 10.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 167 mm	Abutment diameter shaft
d_a	max. 201 mm	Abutment diameter shaft
D_a	min. 276 mm	Abutment diameter housing
D_a	max. 302.2 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 430 kN
Basic static load rating	C_0	1 760 kN
Fatigue load limit	P_u	183 kN
Reference speed		2 200 r/min
Limiting speed		3 000 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	43.5 kg

NCF 2332 ECJB/PEX

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	340 mm
Width	114 mm

Performance

Basic dynamic load rating	1 600 kN
Basic static load rating	2 000 kN
Limiting speed	2 800 r/min
Reference speed	2 000 r/min
SKF performance class	SKF Explorer

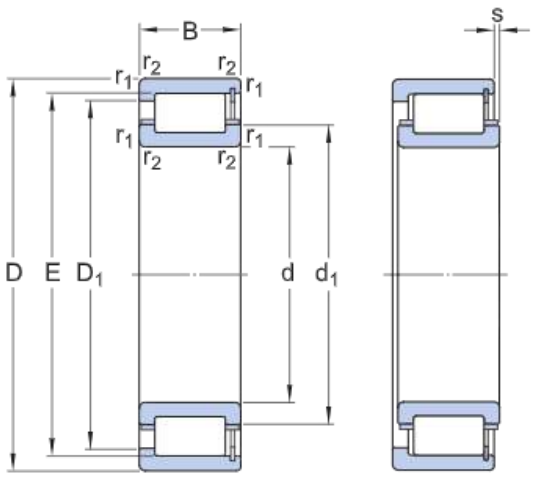
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

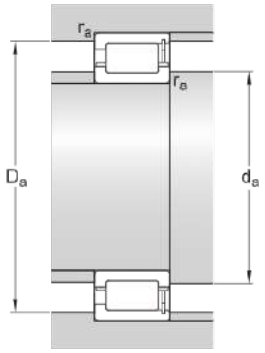
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	160 mm	Bore diameter
D	340 mm	Outside diameter
B	114 mm	Width
d_1	≈ 221.9 mm	Shoulder diameter inner ring
D_1	≈ 280.8 mm	Shoulder diameter outer ring
E	300 mm	Raceway diameter outer ring
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 177 mm	Abutment diameter shaft
d_a	max. 213 mm	Abutment diameter shaft
D_a	min. 290 mm	Abutment diameter housing
D_a	max. 321.9 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 600 kN
Basic static load rating	C_0	2 000 kN
Fatigue load limit	P_u	196 kN
Reference speed		2 000 r/min
Limiting speed		2 800 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	50.5 kg

NCF 2336 ECJB/PEX

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	380 mm
Width	126 mm

Performance

Basic dynamic load rating	1 960 kN
Basic static load rating	2 400 kN
Limiting speed	2 400 r/min
Reference speed	1 800 r/min
SKF performance class	SKF Explorer

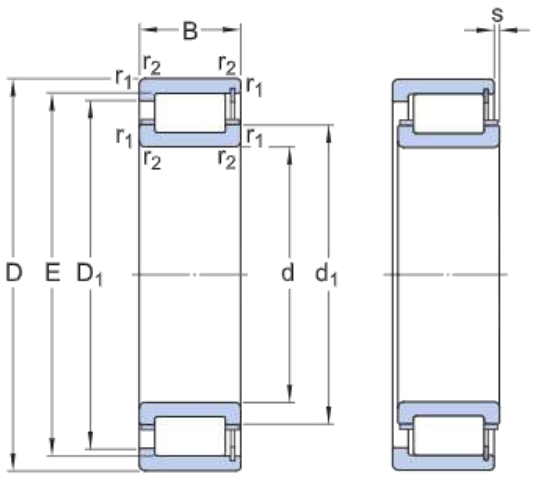
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

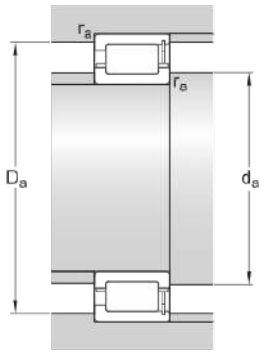
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	180 mm	Bore diameter
D	380 mm	Outside diameter
B	126 mm	Width
d_1	≈ 247.8 mm	Shoulder diameter inner ring
D_1	≈ 319.9 mm	Shoulder diameter outer ring
E	339 mm	Raceway diameter outer ring
s	max. 10.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 196 mm	Abutment diameter shaft
d_a	max. 237 mm	Abutment diameter shaft
D_a	min. 329 mm	Abutment diameter housing
D_a	max. 361.3 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 960 kN
Basic static load rating	C_0	2 400 kN
Fatigue load limit	P_u	232 kN
Reference speed		1 800 r/min
Limiting speed		2 400 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	67.5 kg

NCF 2338 ECJB/PEX

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	400 mm
Width	132 mm

Performance

Basic dynamic load rating	2 240 kN
Basic static load rating	2 750 kN
Limiting speed	2 200 r/min
Reference speed	1 700 r/min
SKF performance class	SKF Explorer

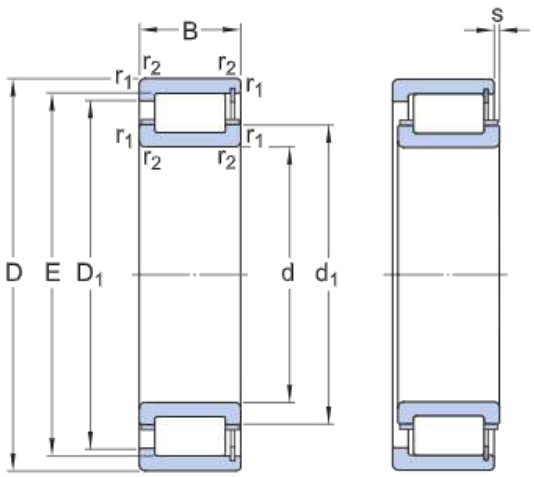
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

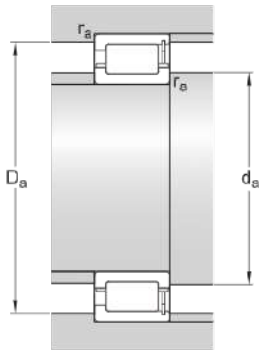
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	190 mm	Bore diameter
D	400 mm	Outside diameter
B	132 mm	Width
d_1	≈ 262.2 mm	Shoulder diameter inner ring
D_1	≈ 341.2 mm	Shoulder diameter outer ring
E	360 mm	Raceway diameter outer ring
s	max. 9.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 209 mm	Abutment diameter shaft
d_a	max. 251 mm	Abutment diameter shaft
D_a	min. 351 mm	Abutment diameter housing
D_a	max. 380 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 240 kN
Basic static load rating	C_0	2 750 kN
Fatigue load limit	P_u	255 kN
Reference speed		1 700 r/min
Limiting speed		2 200 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	78 kg

NCF 2340 ECJB/PEX

Single row high-capacity cylindrical roller bearing, NCF design

SKF single row high-capacity cylindrical roller bearings have the very high load carrying capacity of full complement bearings and the high speed capability of bearings with a cage. They are designed for applications such as industrial gearboxes, wind turbine gearboxes and mining equipment. Their internal design enables the bearings to accommodate axial displacement in one direction. The bearings are of non-separable design.

- Very high radial load carrying capacity
- High speed capability
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	420 mm
Width	138 mm

Performance

Basic dynamic load rating	2 550 kN
Basic static load rating	3 200 kN
Limiting speed	2 200 r/min
Reference speed	1 600 r/min
SKF performance class	SKF Explorer

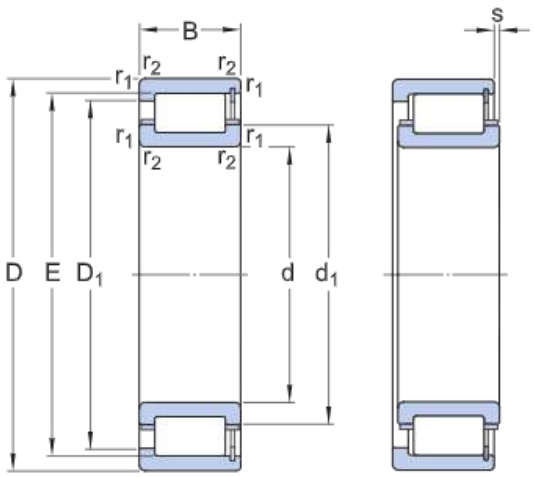
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

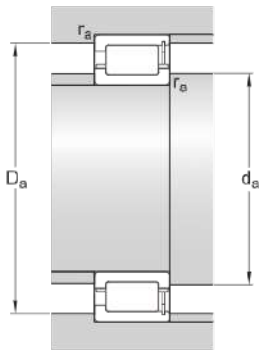
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	200 mm	Bore diameter
D	420 mm	Outside diameter
B	138 mm	Width
d_1	≈ 275.9 mm	Shoulder diameter inner ring
D_1	≈ 356 mm	Shoulder diameter outer ring
E	377 mm	Raceway diameter outer ring
s	max. 9.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 220 mm	Abutment diameter shaft
d_a	max. 264 mm	Abutment diameter shaft
D_a	min. 367 mm	Abutment diameter housing
D_a	max. 399.8 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 550 kN
Basic static load rating	C_0	3 200 kN
Fatigue load limit	P_u	300 kN
Reference speed		1 600 r/min
Limiting speed		2 200 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	91.5 kg

NCF 3004 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	0.787 in
Outside diameter	1.654 in
Width	0.63 in

Performance

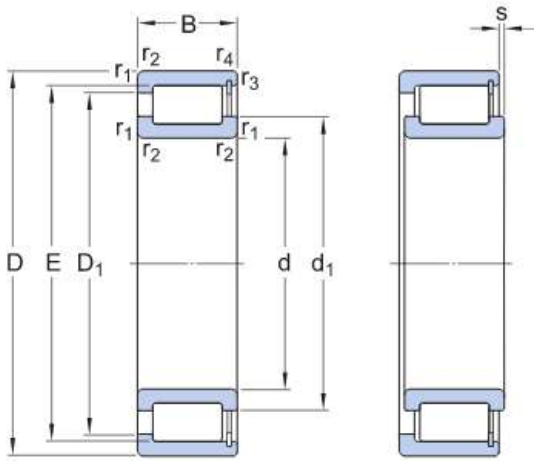
Basic dynamic load rating	6 317 lbf
Basic static load rating	6 407 lbf
Limiting speed	10 000 r/min
Reference speed	8 500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

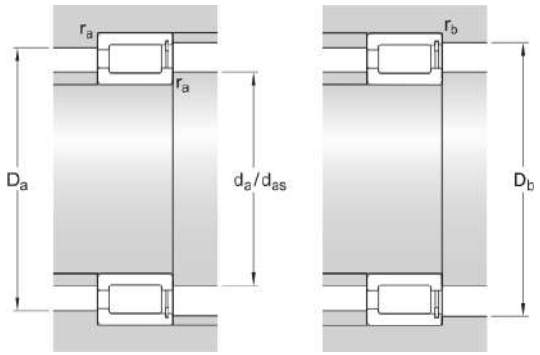
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	0.787 in	Bore diameter
D	1.654 in	Outside diameter
B	0.63 in	Width
d_1	≈ 1.142 in	Shoulder diameter inner ring
D_1	≈ 1.299 in	Shoulder diameter outer ring
E	1.449 in	Raceway diameter outer ring
s	max. 0.0591 in	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 0.024 in	Chamfer dimension
$r_{3,4}$	min. 0.012 in	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 0.945 in	Abutment diameter shaft
d_{as}	1.059 in	Abutment diameter shaft
D_a	max. 1.496 in	Abutment diameter housing
D_b	max. 1.535 in	Abutment diameter housing
r_a	max. 0.024 in	Fillet radius
r_b	max. 0.012 in	Fillet radius

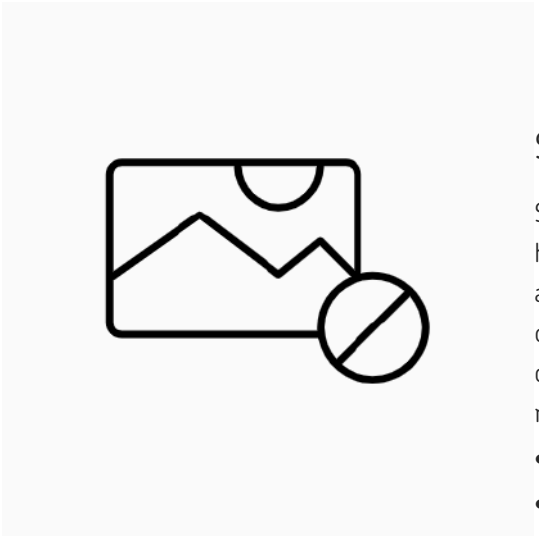
Calculation data

Basic dynamic load rating	C	6 317 lbf
Basic static load rating	C_0	6 407 lbf

Fatigue load limit	P_u	697 lbf
Reference speed		8 500 r/min
Limiting speed		10 000 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.243 lb



NF 307 ECP

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

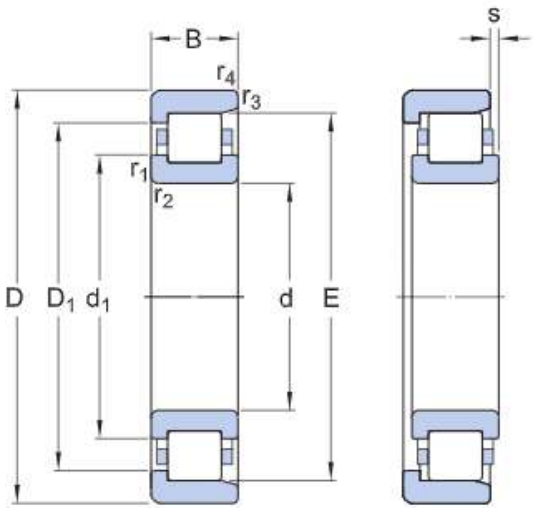
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

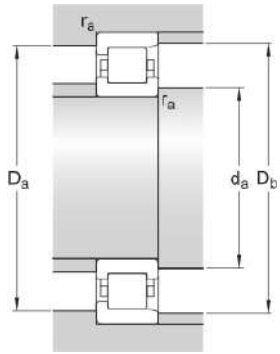
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
E	70.2 mm	Raceway diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
D_a	max. 72.2 mm	Diameter of housing abutment
D_b	min. 71.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.12
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.49 kg

NJ 202 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	15 mm
Outside diameter	35 mm
Width	11 mm

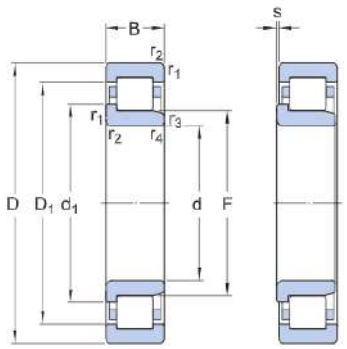
Performance

Basic dynamic load rating	12.5 kN
Basic static load rating	10.2 kN
Limiting speed	26 000 r/min
Reference speed	22 000 r/min

Properties

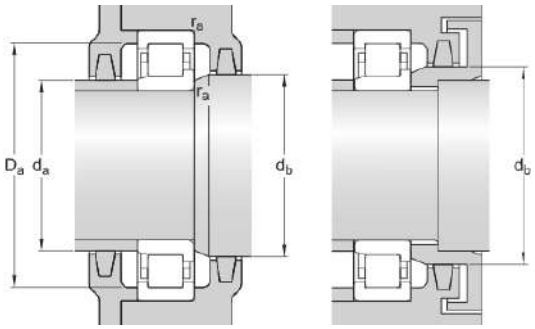
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	15 mm	Bore diameter
D	35 mm	Outside diameter
B	11 mm	Width
d_1	≈ 21.9 mm	Shoulder diameter of inner ring
D_1	≈ 27.7 mm	Shoulder diameter of outer ring
F	19.3 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 18.2 mm	Diameter of spacer sleeve
d_a	max. 18.4 mm	Diameter of spacer sleeve
d_b	min. 23 mm	Diameter of shaft abutment
D_a	max. 31.3 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	12.5 kN
Basic static load rating	C_0	10.2 kN
Fatigue load limit	P_u	1.22 kN
Reference speed		22 000 r/min
Limiting speed		26 000 r/min
Minimum load factor	k_r	0.15

Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass		0.048 kg

NJ 203 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	12 mm

Performance

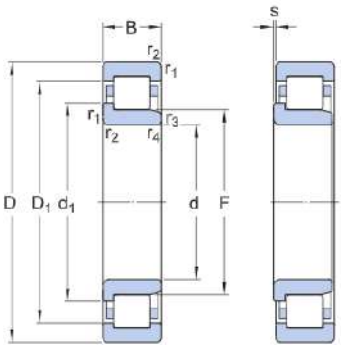
Basic dynamic load rating	20 kN
Basic static load rating	14.3 kN
Limiting speed	22 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

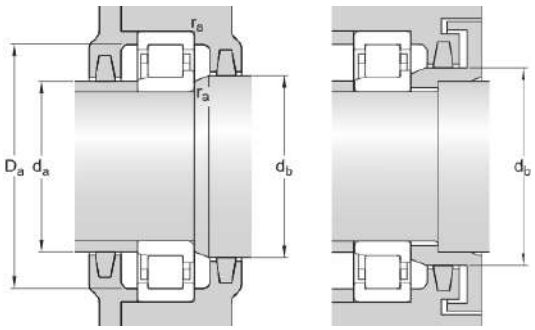
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	12 mm	Width
d_1	≈ 25 mm	Shoulder diameter of inner ring
D_1	≈ 32 mm	Shoulder diameter of outer ring
F	22.1 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 20.7 mm	Diameter of spacer sleeve
d_a	max. 21.1 mm	Diameter of spacer sleeve
d_b	min. 27 mm	Diameter of shaft abutment
D_a	max. 36 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	20 kN
Basic static load rating	C_0	14.3 kN

Fatigue load limit	P_u	1.73 kN
Reference speed		20 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.069 kg

NJ 203 ECPHA

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	12 mm

Performance

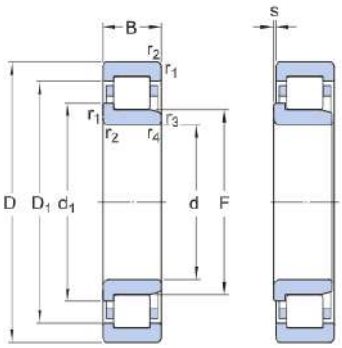
Basic dynamic load rating	20 kN
Basic static load rating	14.3 kN
Limiting speed	30 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

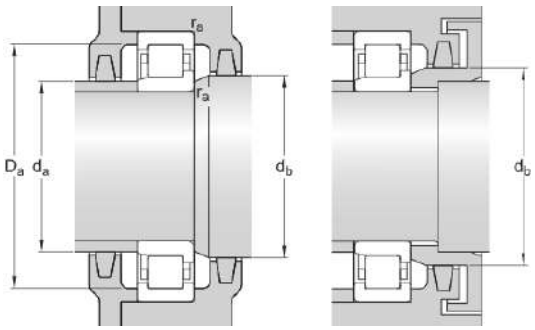
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	12 mm	Width
d_1	≈ 25 mm	Shoulder diameter of inner ring
D_1	≈ 32.35 mm	Shoulder diameter of outer ring
F	22.1 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 20.7 mm	Diameter of spacer sleeve
d_a	max. 21.1 mm	Diameter of spacer sleeve
d_b	min. 27 mm	Diameter of shaft abutment
D_a	max. 36 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	20 kN
Basic static load rating	C_0	14.3 kN

Fatigue load limit	P_u	1.73 kN
Reference speed		20 000 r/min
Limiting speed		30 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.07 kg

NJ 204 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

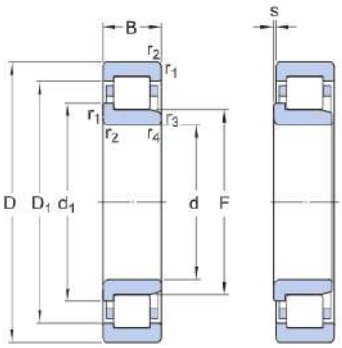
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	30 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

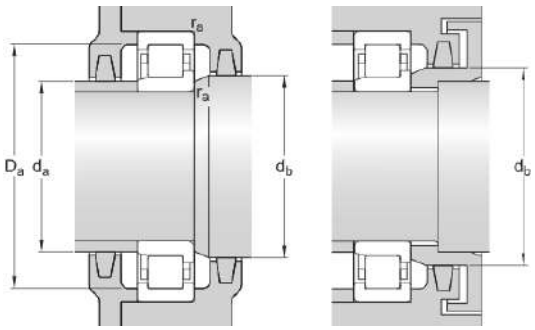
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 29.7 mm	Shoulder diameter of inner ring
D_1	≈ 38.8 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 25 mm	Diameter of spacer sleeve
d_a	max. 25.4 mm	Diameter of spacer sleeve
d_b	min. 31 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN

Fatigue load limit	P_u	2.75 kN
Reference speed		17 000 r/min
Limiting speed		30 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.13 kg

NJ 204 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

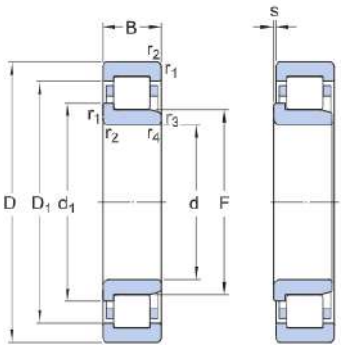
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	19 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

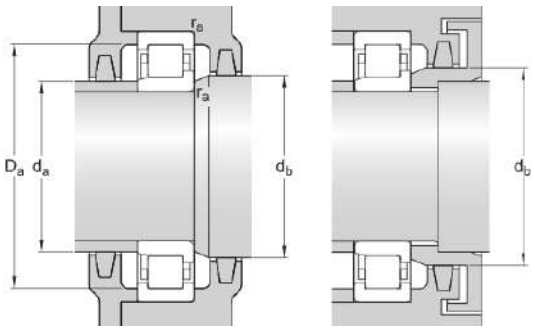
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 29.7 mm	Shoulder diameter of inner ring
D_1	≈ 38.44 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 25 mm	Diameter of spacer sleeve
d_a	max. 25.4 mm	Diameter of spacer sleeve
d_b	min. 31 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN

Fatigue load limit	P_u	2.75 kN
Reference speed		17 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.11 kg

NJ 204 ECPHA

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

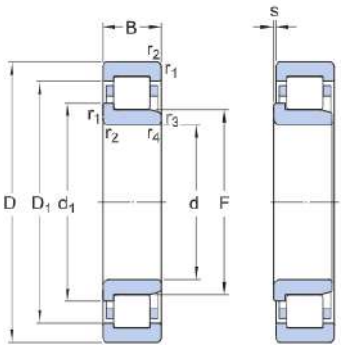
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	24 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

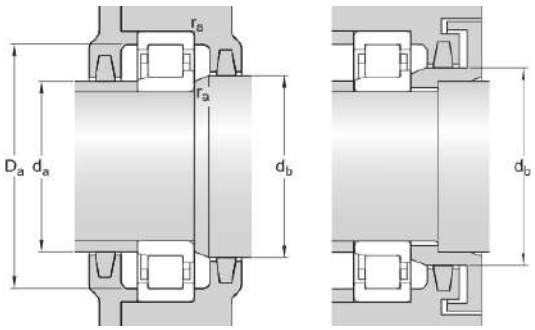
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 29.7 mm	Shoulder diameter of inner ring
D_1	≈ 38.44 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 25 mm	Diameter of spacer sleeve
d_a	max. 25.4 mm	Diameter of spacer sleeve
d_b	min. 31 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN

Fatigue load limit	P_u	2.75 kN
Reference speed		17 000 r/min
Limiting speed		24 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.11 kg

NJ 205 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

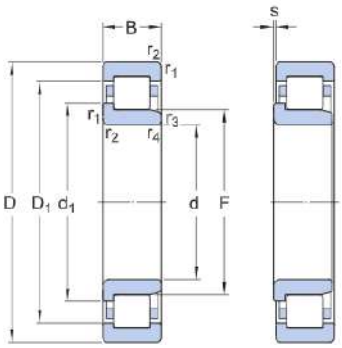
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	16 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

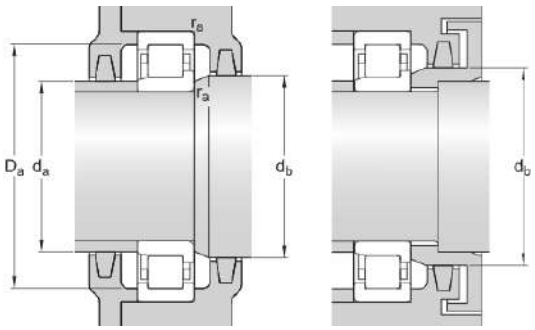
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 34.7 mm	Shoulder diameter of inner ring
D_1	≈ 43.8 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 29.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN

Fatigue load limit	P_u	3.35 kN
Reference speed		15 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.14 kg

NJ 205 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

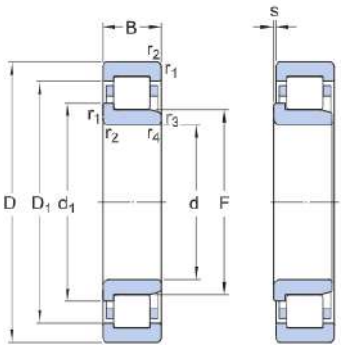
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	26 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

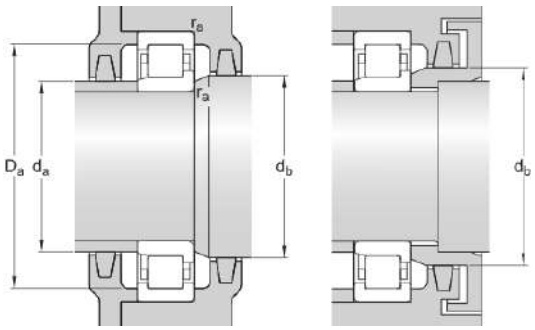
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 34.7 mm	Shoulder diameter of inner ring
D_1	≈ 43.8 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 29.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN

Fatigue load limit	P_u	3.35 kN
Reference speed		15 000 r/min
Limiting speed		26 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.15 kg

NJ 205 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

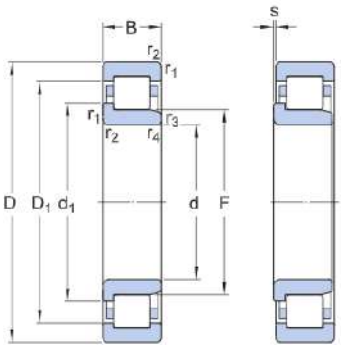
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	16 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

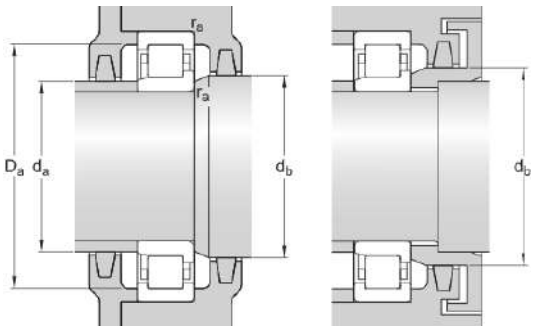
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 34.7 mm	Shoulder diameter of inner ring
D_1	≈ 43.3 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 29.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN

Fatigue load limit	P_u	3.35 kN
Reference speed		15 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.14 kg

NJ 205 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

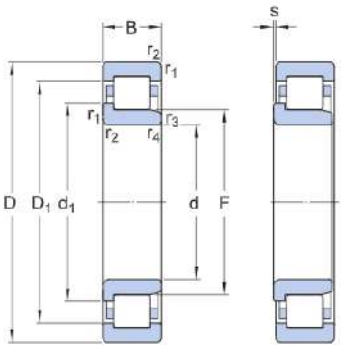
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	16 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

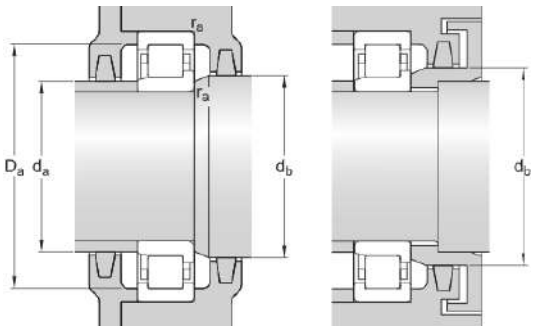
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 34.7 mm	Shoulder diameter of inner ring
D_1	≈ 43.3 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 29.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN

Fatigue load limit	P_u	3.35 kN
Reference speed		15 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.14 kg

NJ 206 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

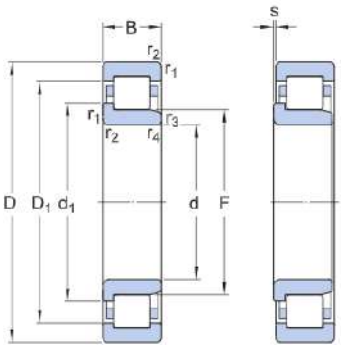
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

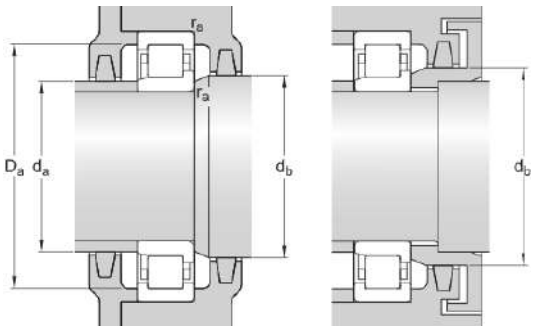
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
D_1	≈ 52.08 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN

Fatigue load limit	P_u	4.55 kN
Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.21 kg

Associated products

Angle ring	HJ 206 EC

NJ 206 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

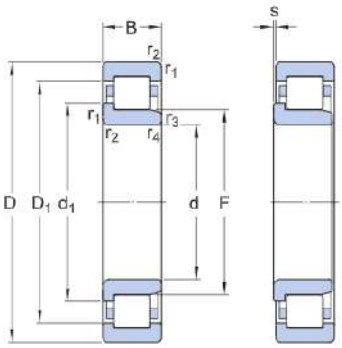
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	22 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

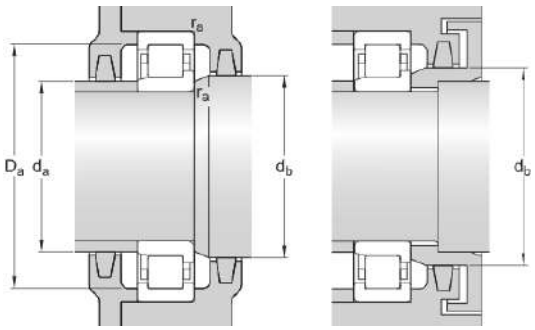
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
D_1	≈ 52.45 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN

Fatigue load limit	P_u	4.55 kN
Reference speed		13 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.24 kg

Associated products

Angle ring	HJ 206 EC

NJ 206 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

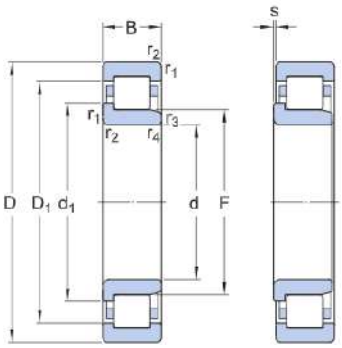
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

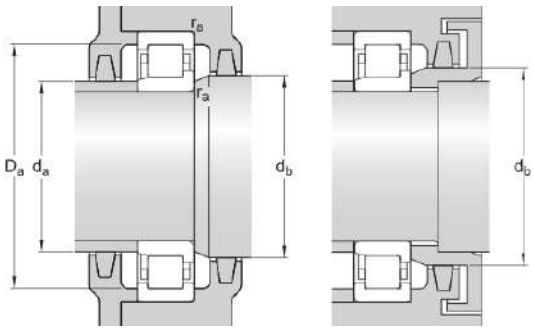
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
D_1	≈ 52.08 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN

Fatigue load limit	P_u	4.55 kN
Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.21 kg

Associated products

Angle ring	HJ 206 EC

NJ 207 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

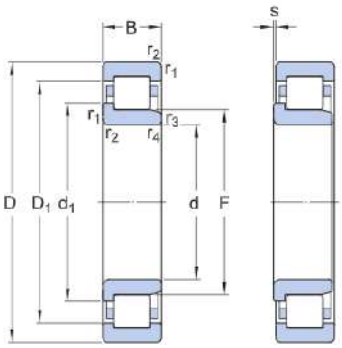
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

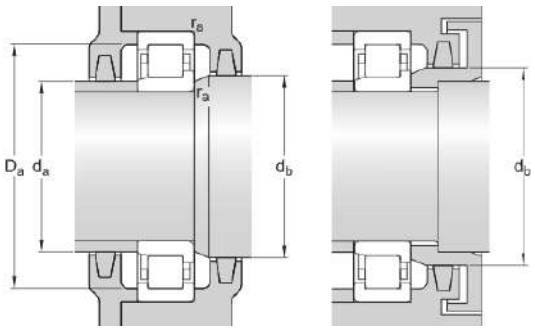
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN

Fatigue load limit	P_u	6.1 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.31 kg

Associated products

Angle ring	HJ 207 EC

NJ 207 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

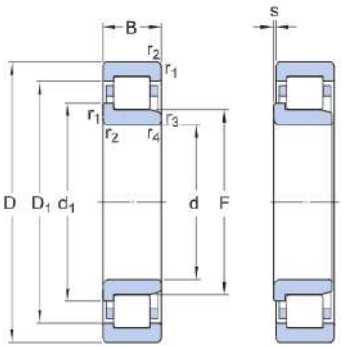
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

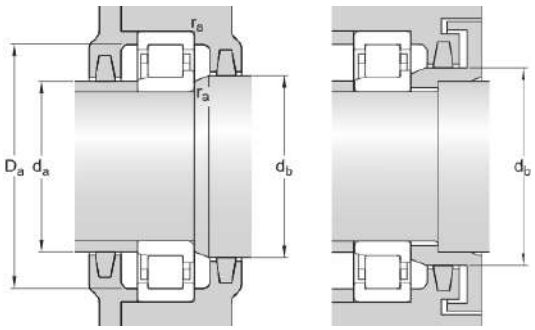
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN

Fatigue load limit	P_u	6.1 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.35 kg

Associated products

Angle ring	HJ 207 EC

NJ 207 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

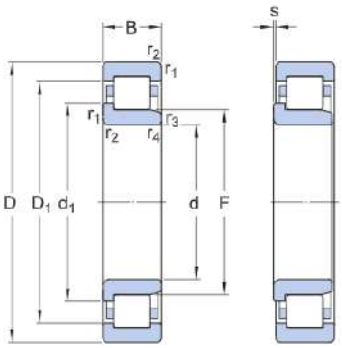
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	18 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

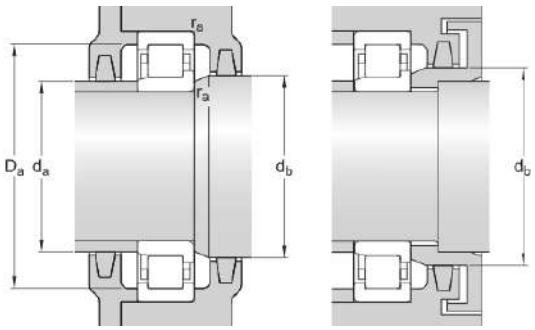
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.7 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN

Fatigue load limit	P_u	6.1 kN
Reference speed		11 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.35 kg

Associated products

Angle ring	HJ 207 EC

NJ 207 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

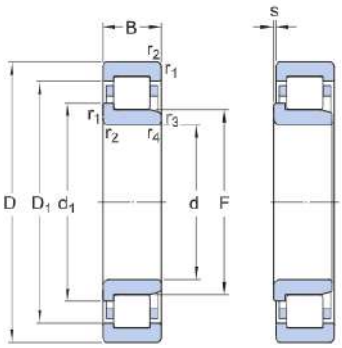
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

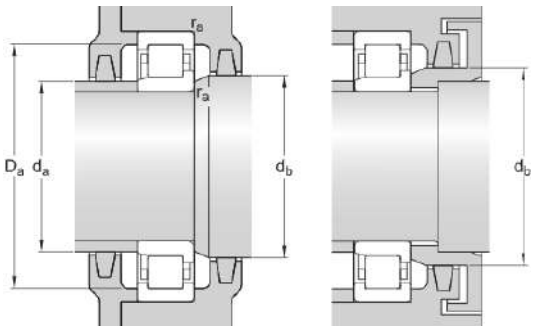
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN

Fatigue load limit	P_u	6.1 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.28 kg

Associated products

Angle ring	HJ 207 EC

NJ 207 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

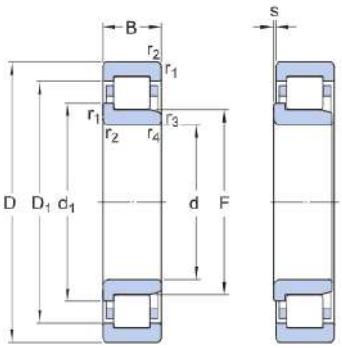
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

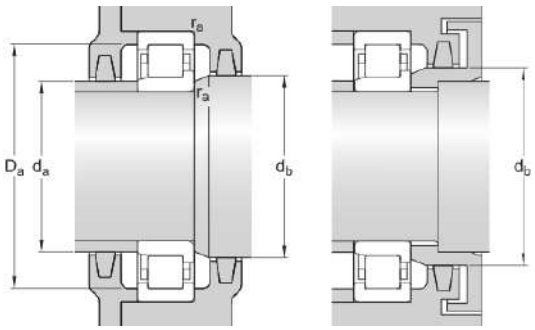
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN

Fatigue load limit	P_u	6.1 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.3 kg

Associated products

Angle ring	HJ 207 EC

NJ 208 ECJ

Single row cylindrical roller bearing, NJ design

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- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

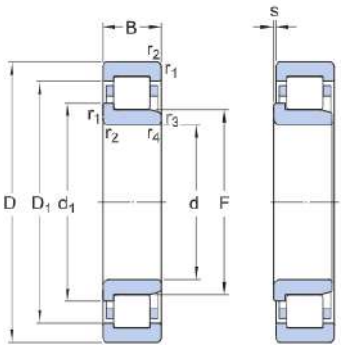
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

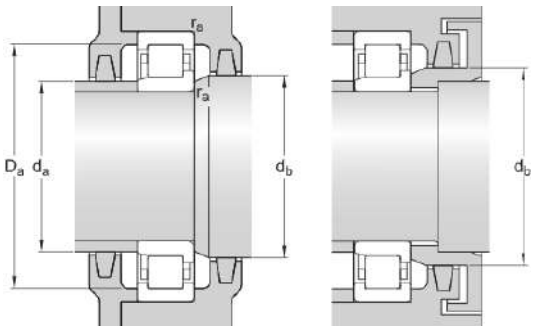
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN

Fatigue load limit	P_u	6.7 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.39 kg

Associated products

Angle ring	HJ 208 EC

NJ 208 ECM

Single row cylindrical roller bearing, NJ design

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- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

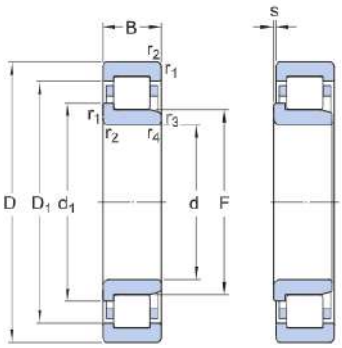
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

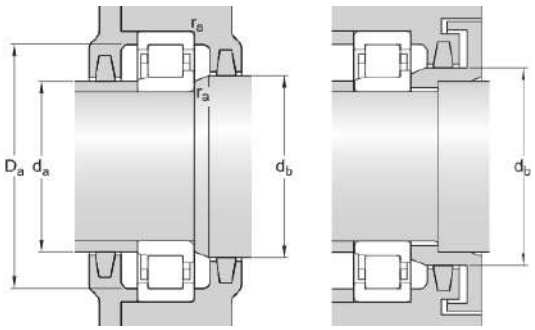
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN

Fatigue load limit	P_u	6.7 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.44 kg

Associated products

Angle ring	HJ 208 EC

NJ 208 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

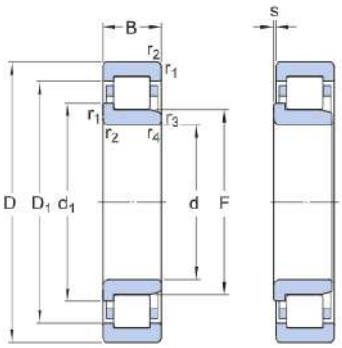
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	16 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

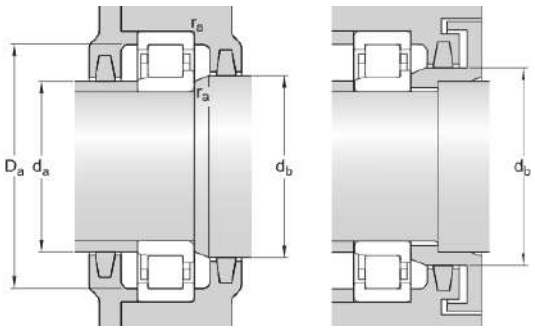
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.9 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN

Fatigue load limit	P_u	6.7 kN
Reference speed		9 500 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.43 kg

Associated products

Angle ring	HJ 208 EC

NJ 208 ECP

Single row cylindrical roller bearing, NJ design

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- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

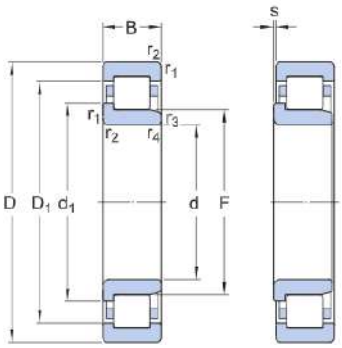
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

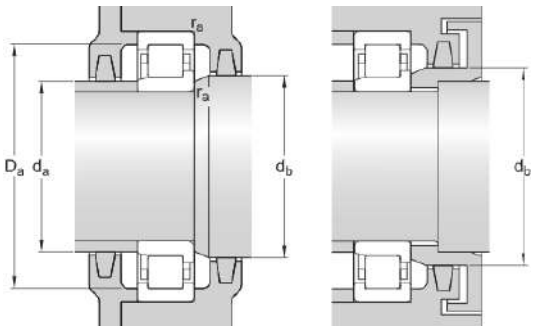
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN

Fatigue load limit	P_u	6.7 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.38 kg

Associated products

Angle ring	HJ 208 EC

NJ 208 ECPH

Single row cylindrical roller bearing, NJ design

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- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

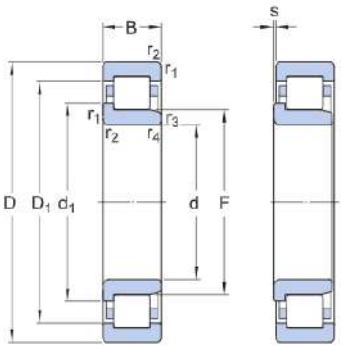
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

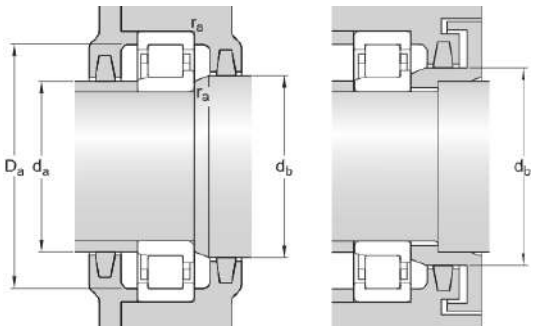
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN

Fatigue load limit	P_u	6.7 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.38 kg

Associated products

Angle ring	HJ 208 EC

NJ 209 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

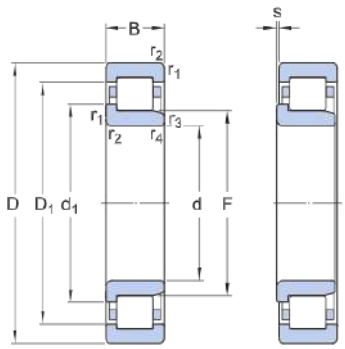
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

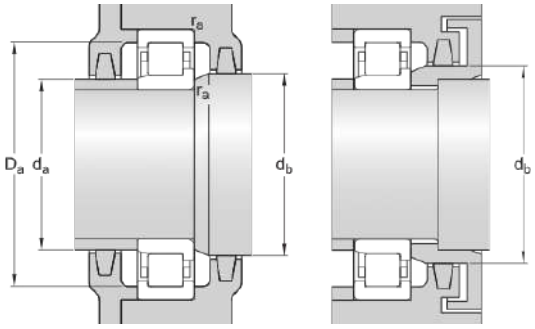
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.45 kg

Associated products

Angle ring	HJ 209 EC

NJ 209 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

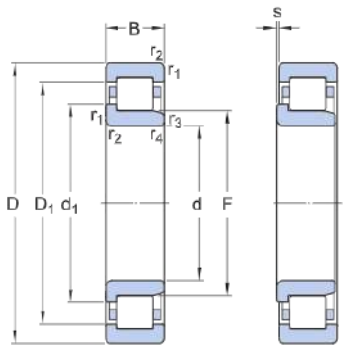
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

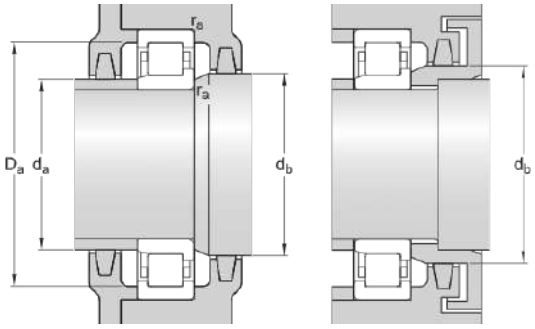
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.5 kg

Associated products

Angle ring	HJ 209 EC

NJ 209 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

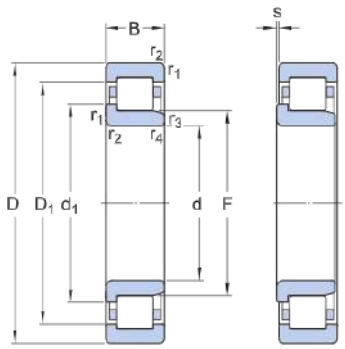
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	15 000 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

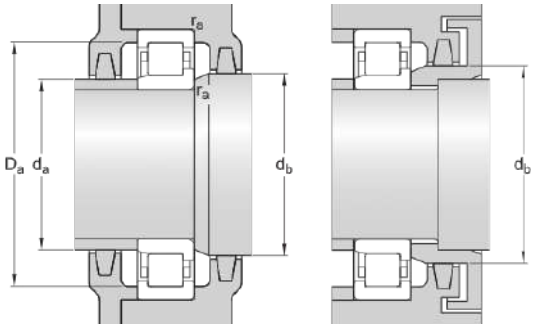
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.95 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



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d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.49 kg

Associated products

Angle ring	HJ 209 EC

NJ 209 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

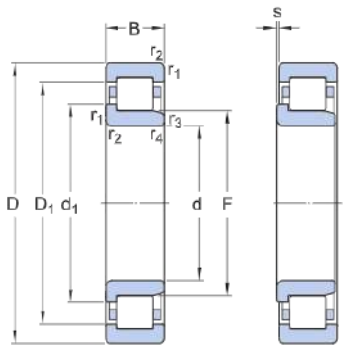
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification

SKF performance class	SKF Explorer



Dimensions

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D	85 mm	Outside diameter
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d_1	≈ 59 mm	Shoulder diameter of inner ring
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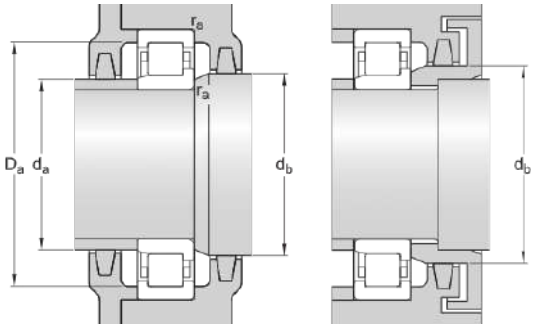
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



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d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.44 kg

Associated products

Angle ring	HJ 209 EC

NJ 209 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

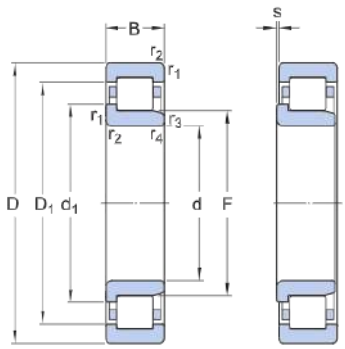
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
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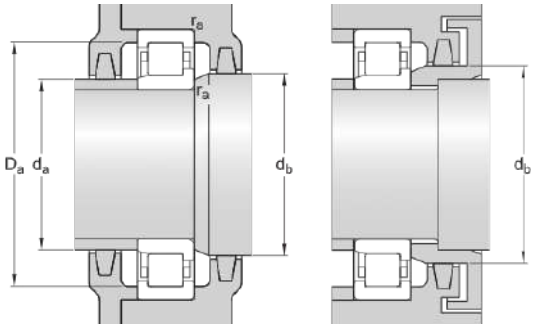
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.44 kg

Associated products

Angle ring	HJ 209 EC

NJ 210 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

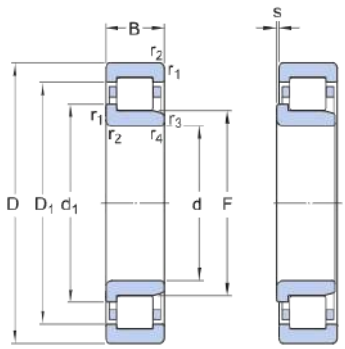
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

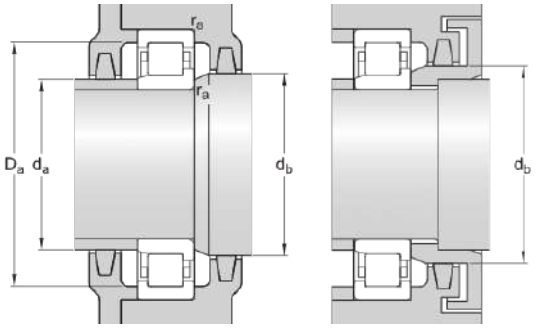
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.4 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN

Fatigue load limit	P_u	8.8 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.52 kg

Associated products

Angle ring	HJ 210 EC

NJ 210 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

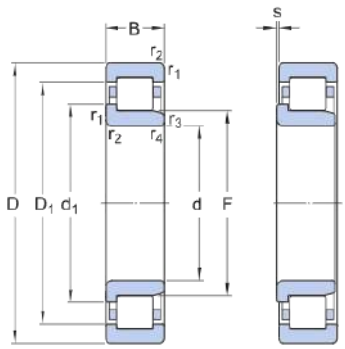
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

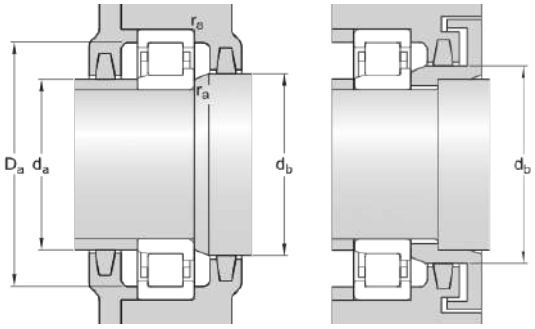
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.4 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN

Fatigue load limit	P_u	8.8 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.57 kg

Associated products

Angle ring	HJ 210 EC

NJ 210 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

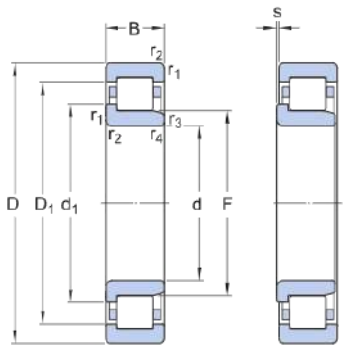
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
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B	20 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
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$r_{1,2}$	min. 1.1 mm	Chamfer dimension
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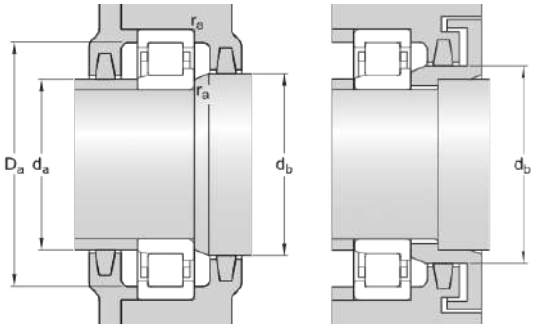

Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN

Fatigue load limit	P_u	8.8 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.57 kg

Associated products

Angle ring	HJ 210 EC

NJ 210 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

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- Low friction
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- Locate the shaft axially in one direction
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Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

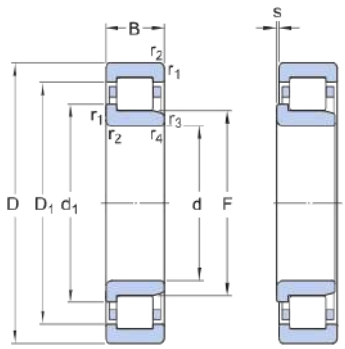
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class	SKF Explorer



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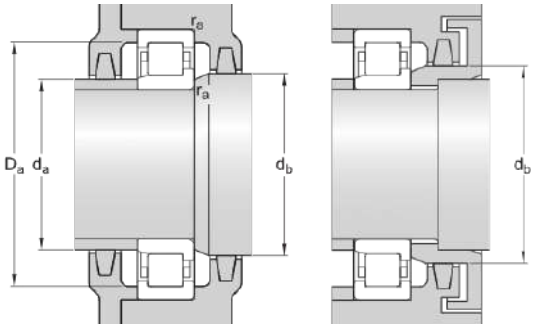


Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN

Fatigue load limit	P_u	8.8 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.49 kg

Associated products

Angle ring	HJ 210 EC

NJ 210 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

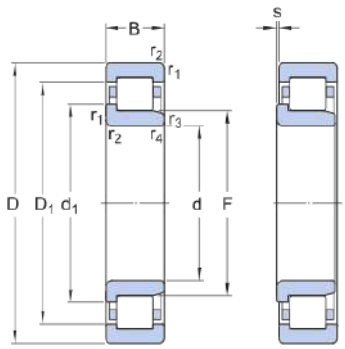
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class	SKF Explorer



Dimensions

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D	90 mm	Outside diameter
B	20 mm	Width
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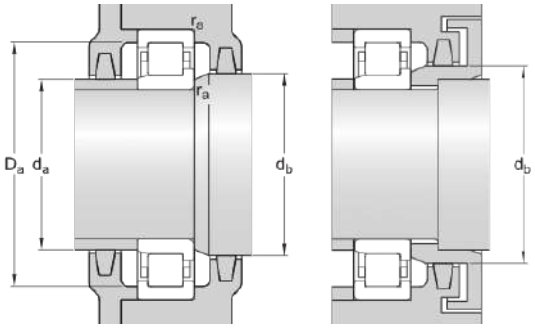
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN

Fatigue load limit	P_u	8.8 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.49 kg

Associated products

Angle ring	HJ 210 EC

NJ 211 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

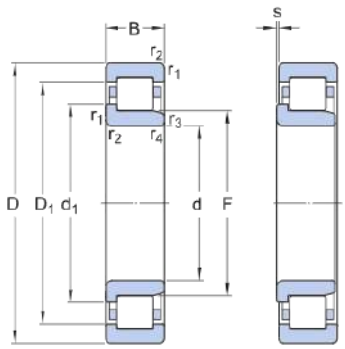
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

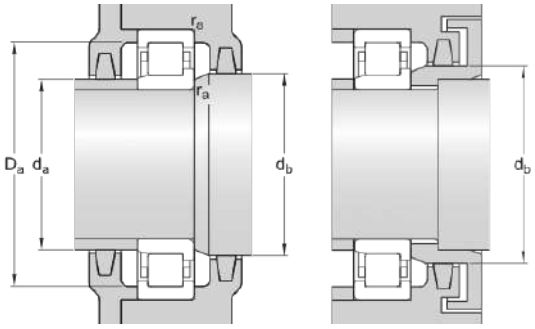
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
D_1	≈ 85.68 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN

Fatigue load limit	P_u	12.2 kN
Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.7 kg

Associated products

Angle ring	HJ 211 EC

NJ 211 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

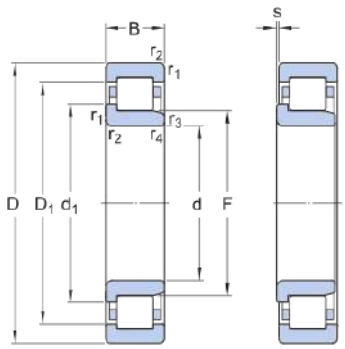
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

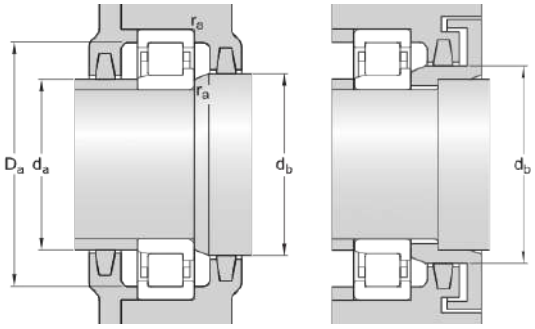
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
D_1	≈ 85.68 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN

Fatigue load limit	P_u	12.2 kN
Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.76 kg

Associated products

Angle ring	HJ 211 EC

NJ 211 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

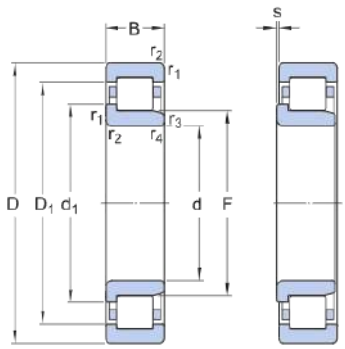
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

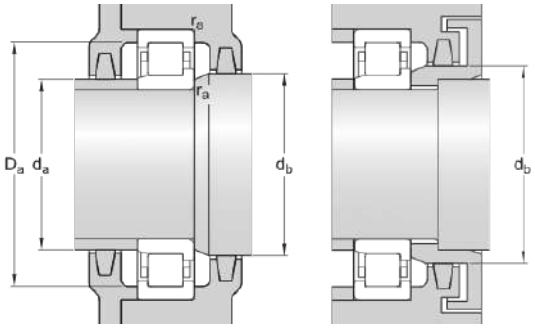
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
D_1	≈ 86.25 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN

Fatigue load limit	P_u	12.2 kN
Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.76 kg

Associated products

Angle ring	HJ 211 EC

NJ 211 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

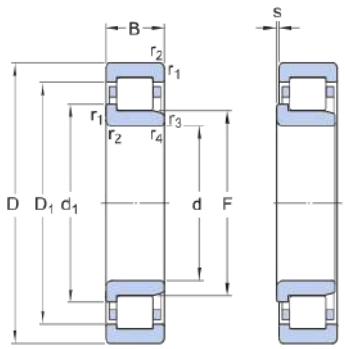
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

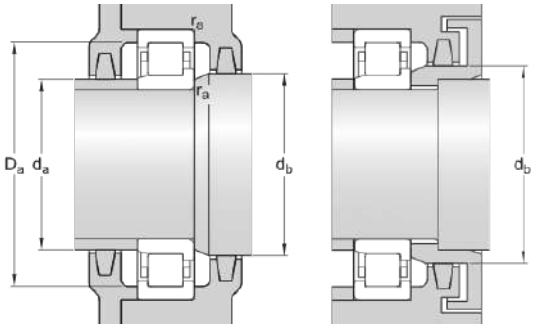
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
D_1	≈ 85.68 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN

Fatigue load limit	P_u	12.2 kN
Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.67 kg

Associated products

Angle ring	HJ 211 EC

NJ 303 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	47 mm
Width	14 mm

Performance

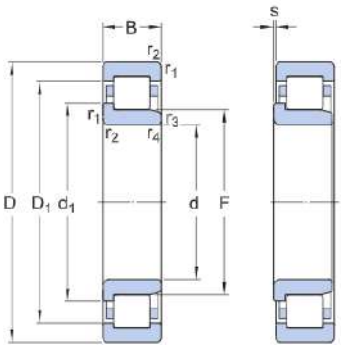
Basic dynamic load rating	28.5 kN
Basic static load rating	20.4 kN
Limiting speed	20 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

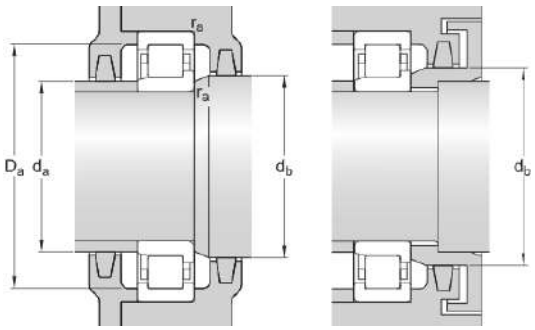
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 27.7 mm	Shoulder diameter of inner ring
D_1	≈ 36.75 mm	Shoulder diameter of outer ring
F	24.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 22.1 mm	Diameter of spacer sleeve
d_a	max. 23.1 mm	Diameter of spacer sleeve
d_b	min. 29 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	20.4 kN

Fatigue load limit	P_u	2.55 kN
Reference speed		17 000 r/min
Limiting speed		20 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.12 kg

NJ 304 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width	15 mm

Performance

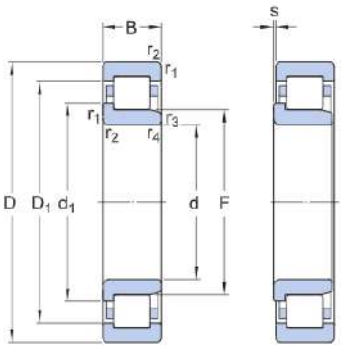
Basic dynamic load rating	35.5 kN
Basic static load rating	26 kN
Limiting speed	18 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

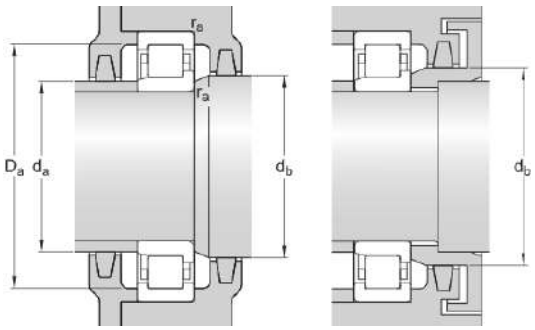
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 31.2 mm	Shoulder diameter of inner ring
D_1	≈ 41.85 mm	Shoulder diameter of outer ring
F	27.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 0.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 26.1 mm	Diameter of spacer sleeve
d_a	max. 26.2 mm	Diameter of spacer sleeve
d_b	min. 33 mm	Diameter of shaft abutment
D_a	max. 45.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	35.5 kN
Basic static load rating	C_0	26 kN

Fatigue load limit	P_u	3.25 kN
Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.15 kg

Associated products

Angle ring	HJ 304 EC

NJ 305 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

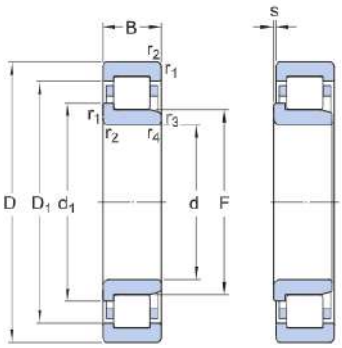
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

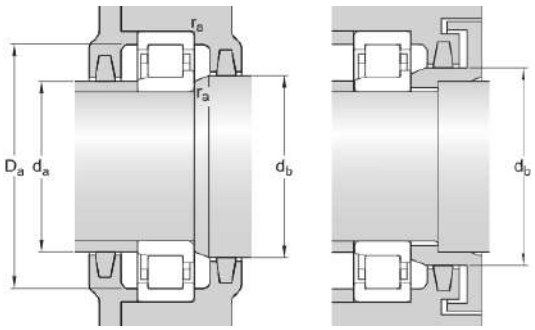
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.25 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN

Fatigue load limit	P_u	4.55 kN
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.25 kg

Associated products

Angle ring	HJ 305 EC

NJ 305 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

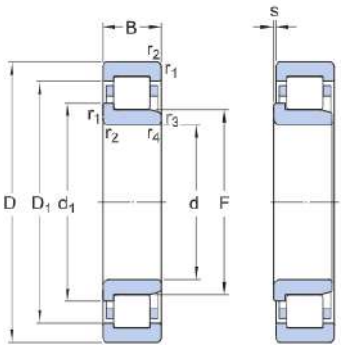
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	22 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

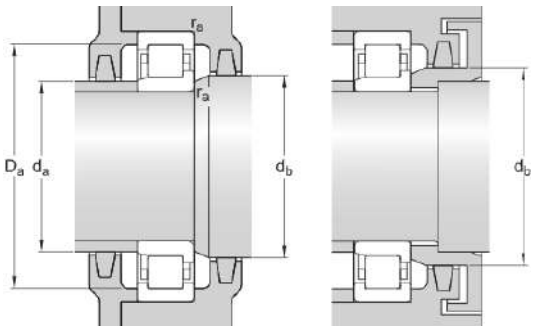
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.65 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN

Fatigue load limit	P_u	4.55 kN
Reference speed		12 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.27 kg

Associated products

Angle ring	HJ 305 EC

NJ 305 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

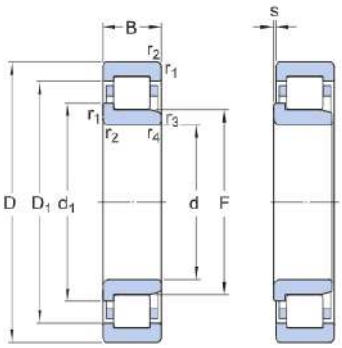
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

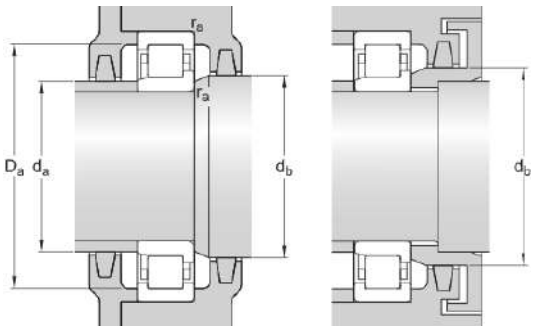
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.25 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN

Fatigue load limit	P_u	4.55 kN
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.25 kg

Associated products

Angle ring	HJ 305 EC

NJ 306 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

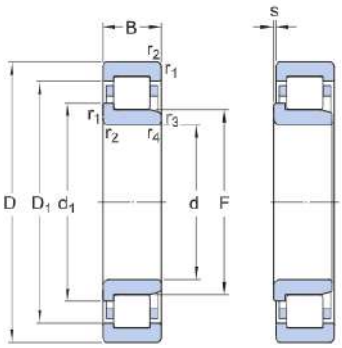
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

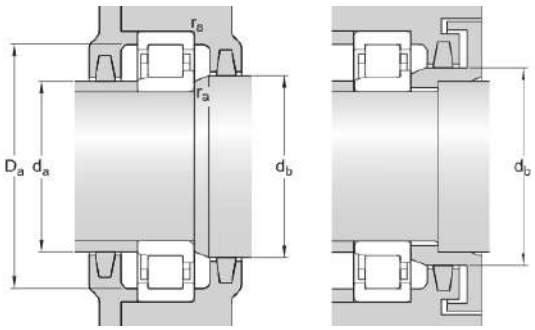
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN

Fatigue load limit	P_u	6.2 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.37 kg

Associated products

Angle ring	HJ 306 EC

NJ 306 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

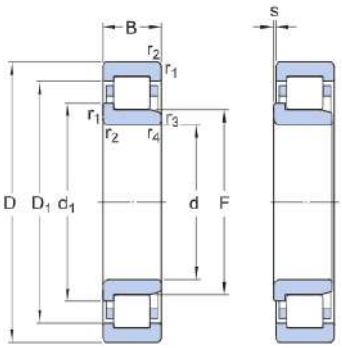
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

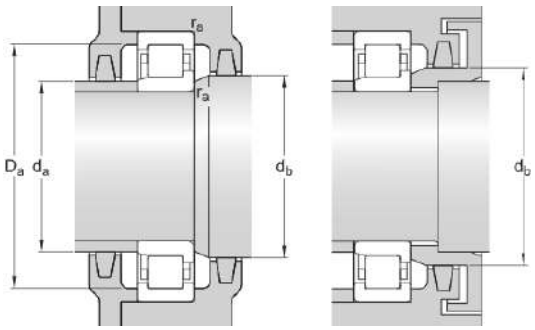
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN

Fatigue load limit	P_u	6.2 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.42 kg

Associated products

Angle ring	HJ 306 EC

NJ 306 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

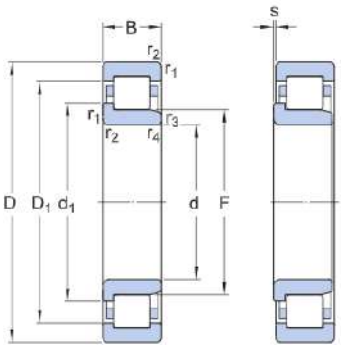
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	19 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

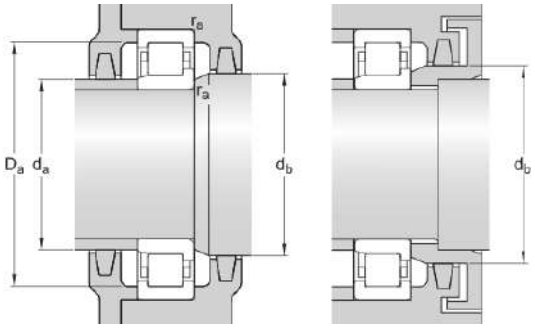
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.85 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN

Fatigue load limit	P_u	6.2 kN
Reference speed		11 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.42 kg

Associated products

Angle ring	HJ 306 EC

NJ 306 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

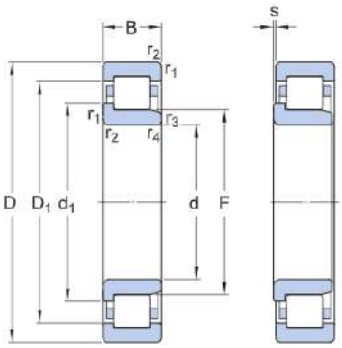
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

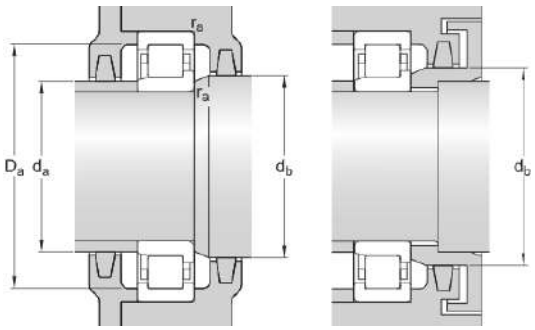
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN

Fatigue load limit	P_u	6.2 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.37 kg

Associated products

Angle ring	HJ 306 EC

NJ 307 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

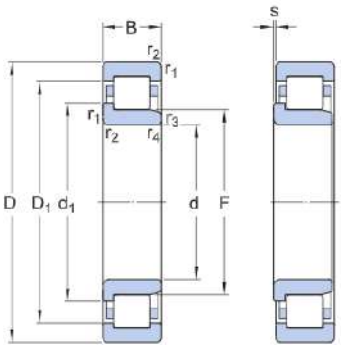
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

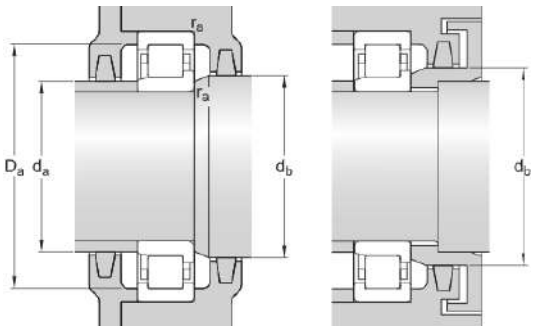
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.5 kg

Associated products

Angle ring	HJ 307 EC

NJ 307 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

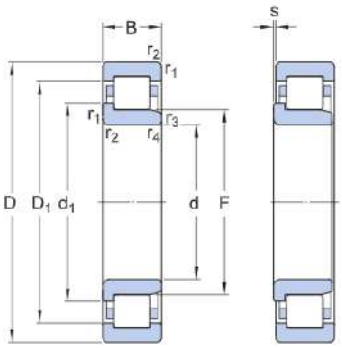
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

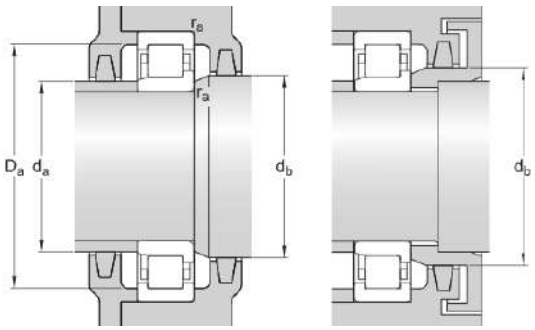
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.57 kg

Associated products

Angle ring	HJ 307 EC

NJ 307 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

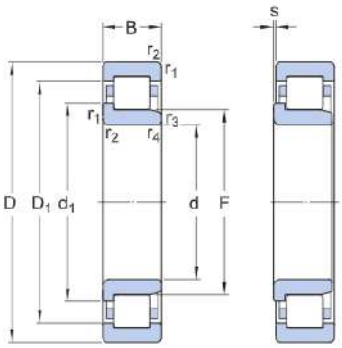
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	17 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

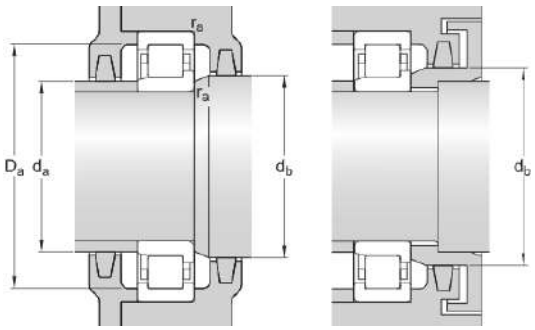
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 66.3 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 500 r/min
Limiting speed		17 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.56 kg

Associated products

Angle ring	HJ 307 EC

NJ 307 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

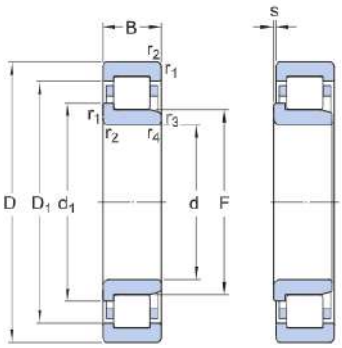
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

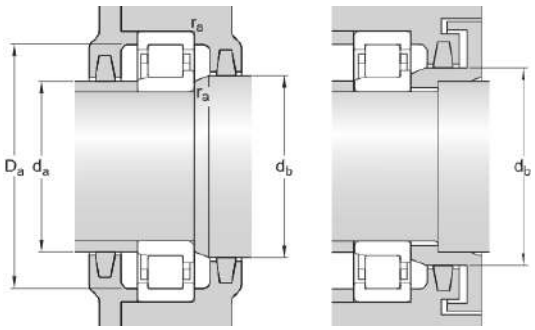
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.49 kg

Associated products

Angle ring	HJ 307 EC

NJ 307 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

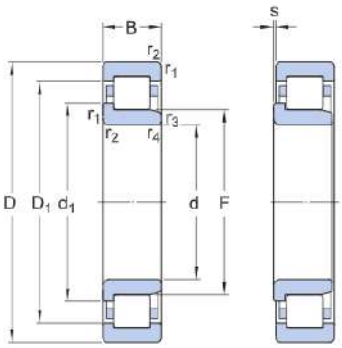
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

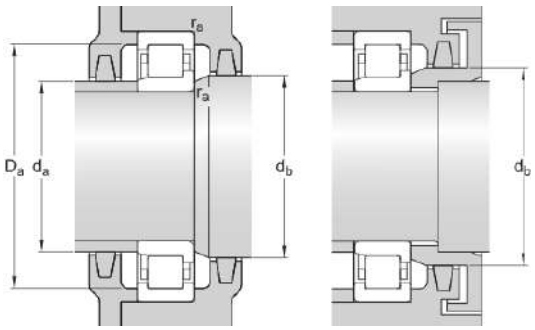
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.49 kg

Associated products

Angle ring	HJ 307 EC

NJ 308 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

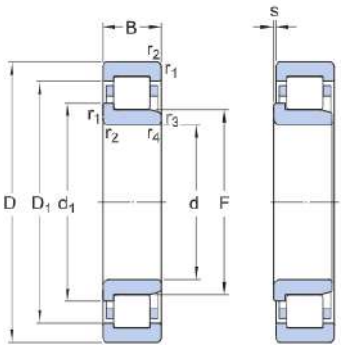
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

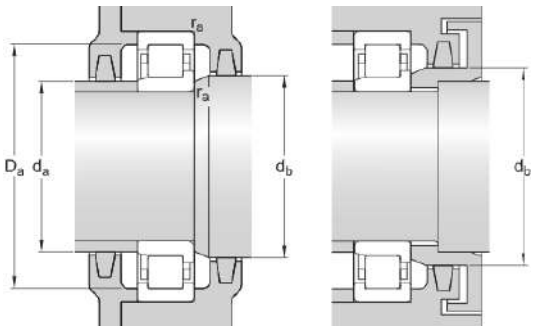
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN

Fatigue load limit	P_u	10.2 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.68 kg

Associated products

Angle ring	HJ 308 EC

NJ 308 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

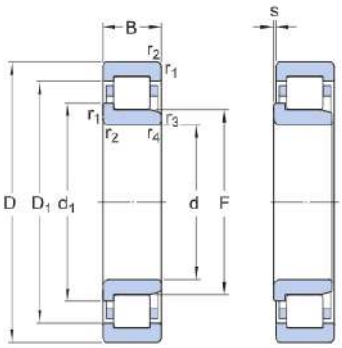
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

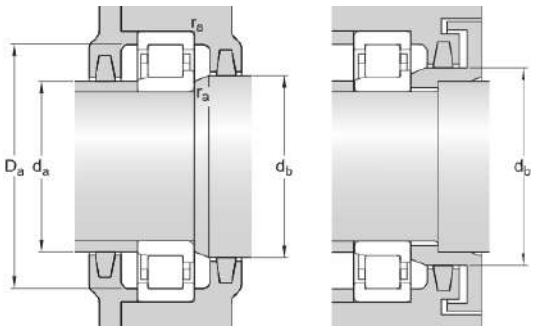
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN

Fatigue load limit	P_u	10.2 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.79 kg

Associated products

Angle ring	HJ 308 EC

NJ 308 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

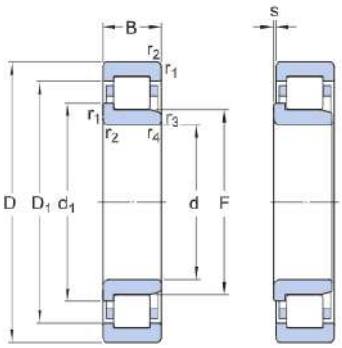
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	15 000 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

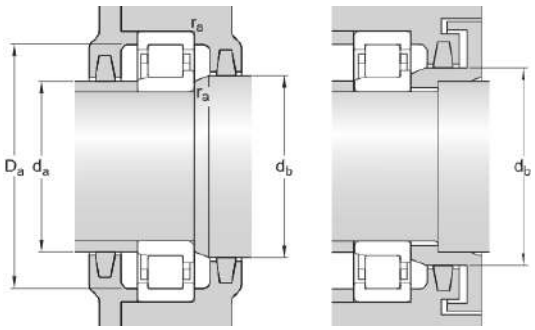
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.55 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN

Fatigue load limit	P_u	10.2 kN
Reference speed		8 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.85 kg

Associated products

Angle ring	HJ 308 EC

NJ 308 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

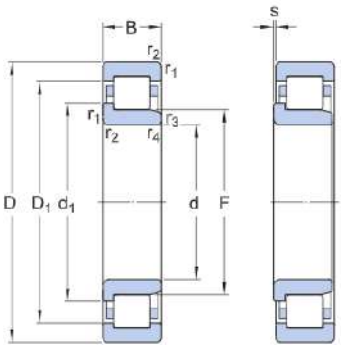
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

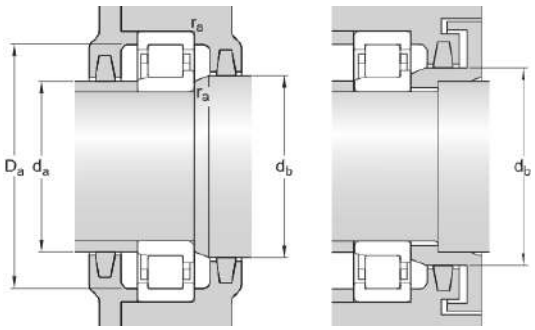
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN

Fatigue load limit	P_u	10.2 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.67 kg

Associated products

Angle ring	HJ 308 EC

NJ 308 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

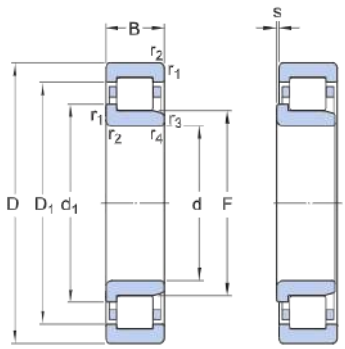
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

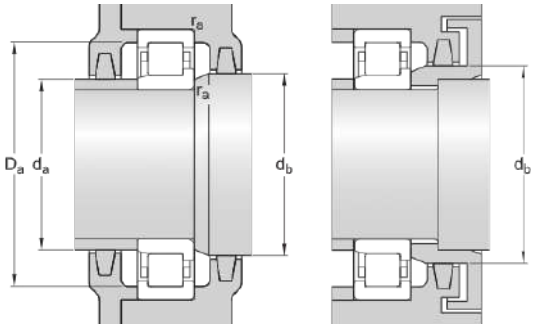
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN

Fatigue load limit	P_u	10.2 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.67 kg

Associated products

Angle ring	HJ 308 EC

NJ 309 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

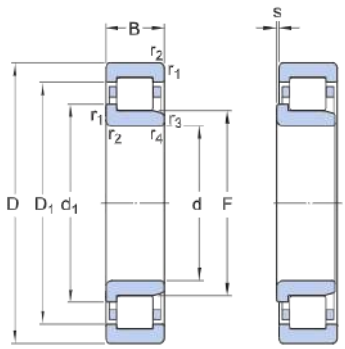
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

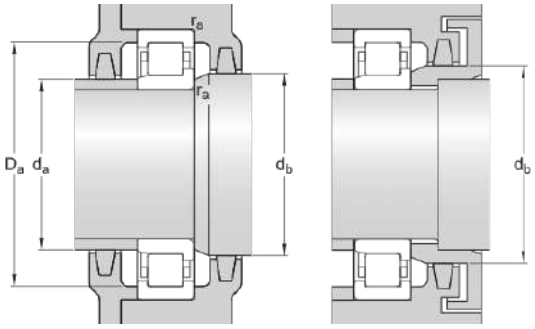
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN

Fatigue load limit	P_u	12.9 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.94 kg

Associated products

Angle ring	HJ 309 EC

NJ 309 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

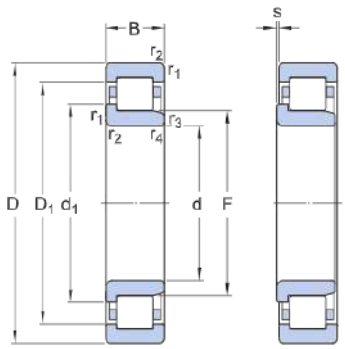
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

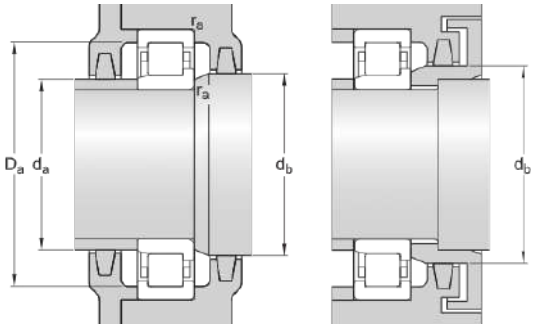
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN

Fatigue load limit	P_u	12.9 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.06 kg

Associated products

Angle ring	HJ 309 EC

NJ 309 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

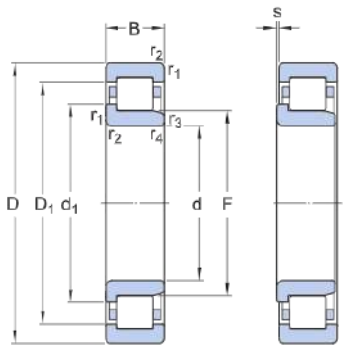
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	13 000 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

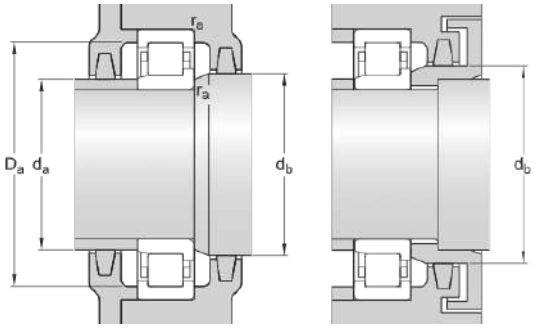
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.75 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

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d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN

Fatigue load limit	P_u	12.9 kN
Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.01 kg

Associated products

Angle ring	HJ 309 EC

NJ 309 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

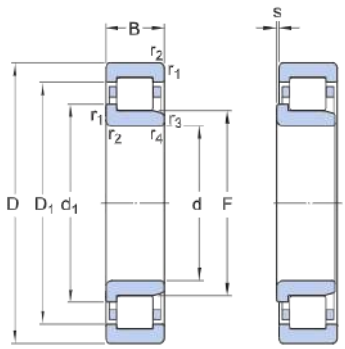
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

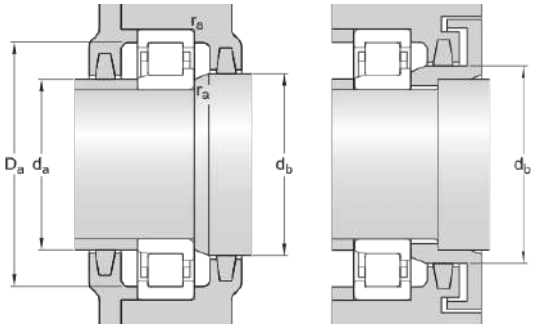
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

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d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN

Fatigue load limit	P_u	12.9 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.89 kg

Associated products

Angle ring	HJ 309 EC

NJ 309 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

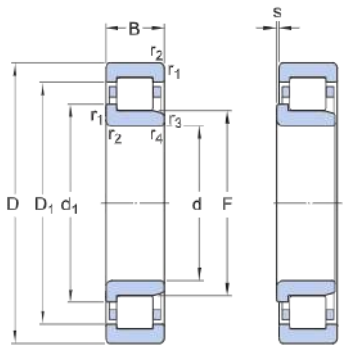
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

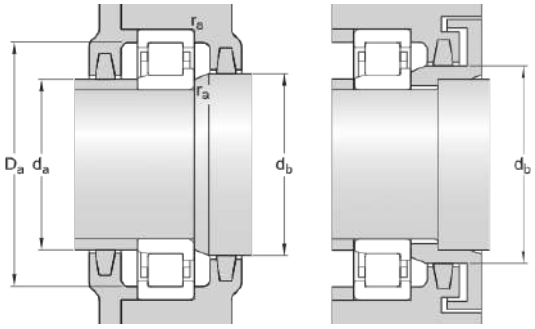
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN

Fatigue load limit	P_u	12.9 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.89 kg

Associated products

Angle ring	HJ 309 EC

NJ 310 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

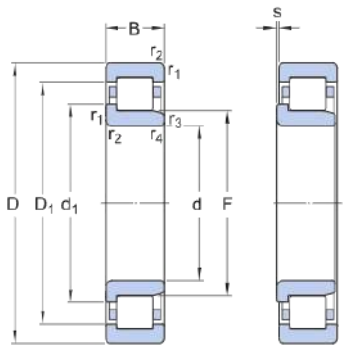
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

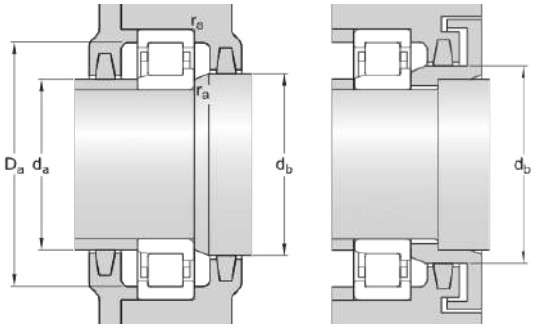
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN

Fatigue load limit	P_u	15 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.18 kg

Associated products

Angle ring	HJ 310 EC

NJ 310 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

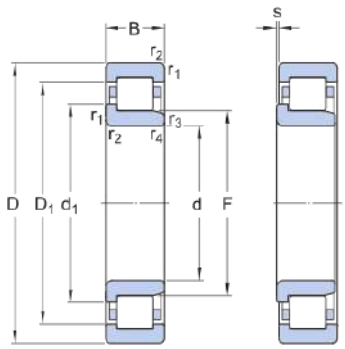
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

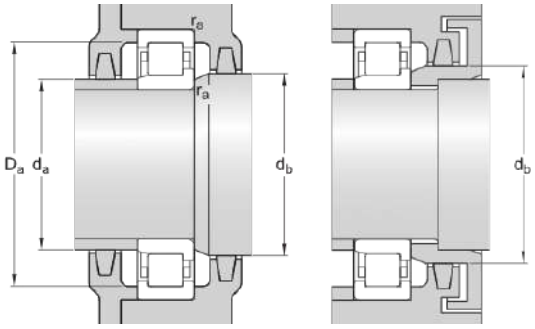
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN

Fatigue load limit	P_u	15 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.34 kg

Associated products

Angle ring	HJ 310 EC

NJ 310 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

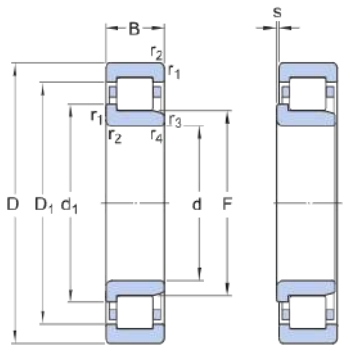
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

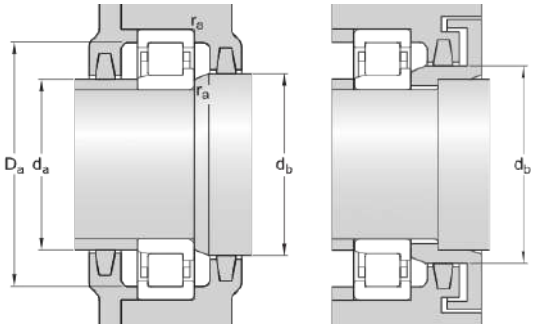
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 92.05 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN

Fatigue load limit	P_u	15 kN
Reference speed		6 700 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.31 kg

Associated products

Angle ring	HJ 310 EC

NJ 310 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

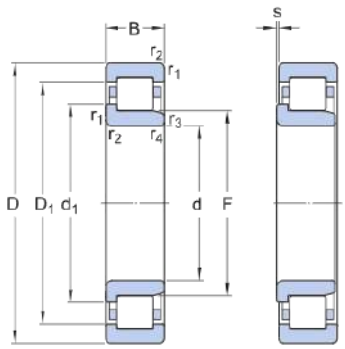
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

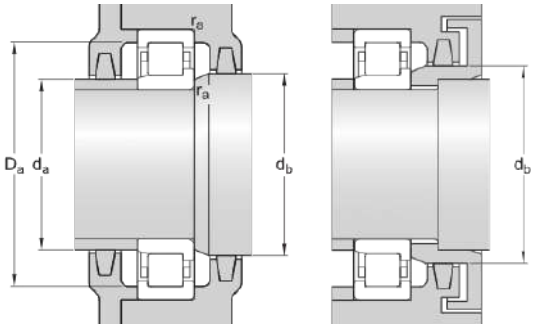
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN

Fatigue load limit	P_u	15 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.17 kg

Associated products

Angle ring	HJ 310 EC

NJ 310 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

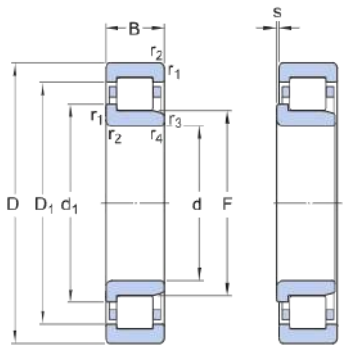
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

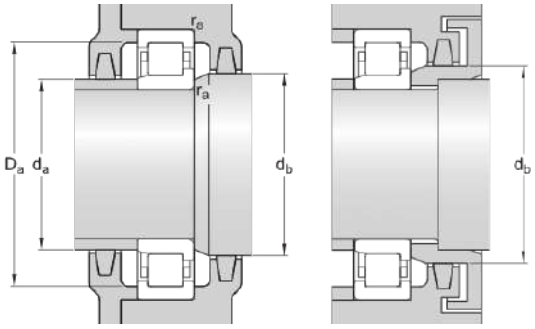
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN

Fatigue load limit	P_u	15 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.17 kg

Associated products

Angle ring	HJ 310 EC

NJ 311 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	29 mm

Performance

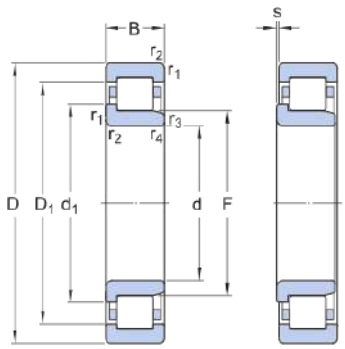
Basic dynamic load rating	156 kN
Basic static load rating	143 kN
Reference speed	6 000 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

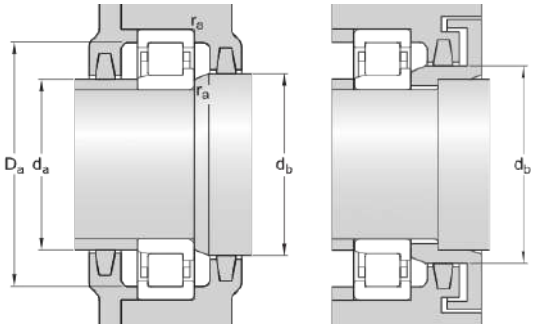
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d_1	≈ 77.5 mm	Shoulder diameter of inner ring
D_1	≈ 100.3 mm	Shoulder diameter of outer ring
F	70.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 65 mm	Diameter of spacer sleeve
d_a	max. 68 mm	Diameter of spacer sleeve
d_b	min. 80 mm	Diameter of shaft abutment
D_a	max. 109.2 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	143 kN

Fatigue load limit	P_u	18.6 kN
Reference speed		6 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.53 kg

Associated products

Angle ring	HJ 311 EC

NJ 311 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	29 mm

Performance

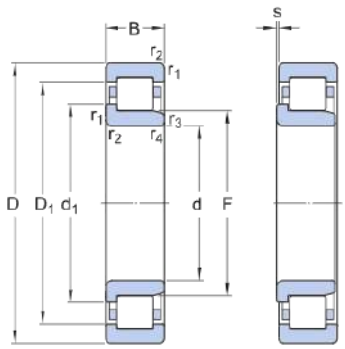
Basic dynamic load rating	156 kN
Basic static load rating	143 kN
Reference speed	6 000 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

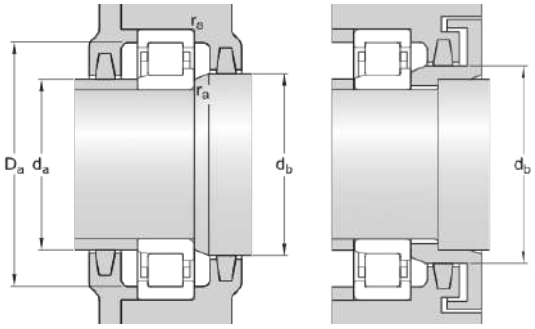
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d_1	≈ 77.5 mm	Shoulder diameter of inner ring
D_1	≈ 100.3 mm	Shoulder diameter of outer ring
F	70.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 65 mm	Diameter of spacer sleeve
d_a	max. 68 mm	Diameter of spacer sleeve
d_b	min. 80 mm	Diameter of shaft abutment
D_a	max. 109.2 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	143 kN

Fatigue load limit	P_u	18.6 kN
Reference speed		6 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.76 kg

Associated products

Angle ring	HJ 311 EC

NJ 311 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	29 mm

Performance

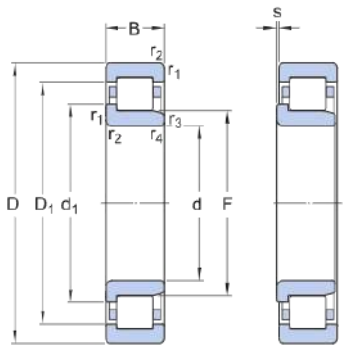
Basic dynamic load rating	156 kN
Basic static load rating	143 kN
Reference speed	6 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

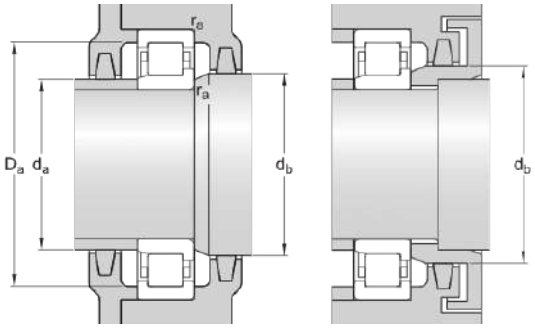
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d_1	≈ 77.5 mm	Shoulder diameter of inner ring
D_1	≈ 101 mm	Shoulder diameter of outer ring
F	70.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 65 mm	Diameter of spacer sleeve
d_a	max. 68 mm	Diameter of spacer sleeve
d_b	min. 80 mm	Diameter of shaft abutment
D_a	max. 109.2 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	143 kN

Fatigue load limit	P_u	18.6 kN
Reference speed		6 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.65 kg

Associated products

Angle ring	HJ 311 EC

NJ 311 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	29 mm

Performance

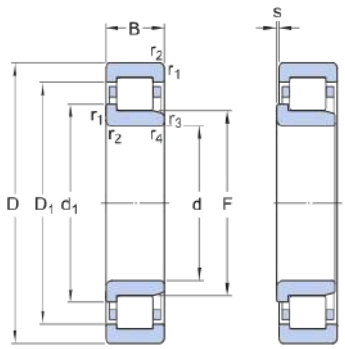
Basic dynamic load rating	156 kN
Basic static load rating	143 kN
Reference speed	6 000 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

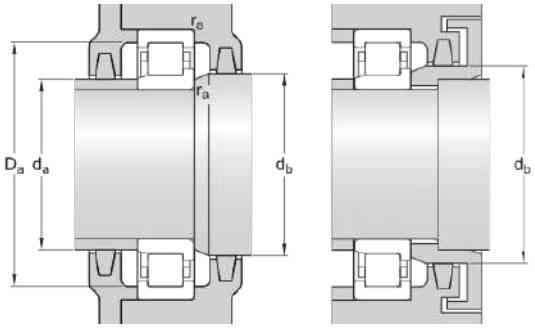
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d_1	≈ 77.5 mm	Shoulder diameter of inner ring
D_1	≈ 100.3 mm	Shoulder diameter of outer ring
F	70.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 65 mm	Diameter of spacer sleeve
d_a	max. 68 mm	Diameter of spacer sleeve
d_b	min. 80 mm	Diameter of shaft abutment
D_a	max. 109.2 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	143 kN

Fatigue load limit	P_u	18.6 kN
Reference speed		6 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.5 kg

Associated products

Angle ring	HJ 311 EC

NJ 1009 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	75 mm
Width	16 mm

Performance

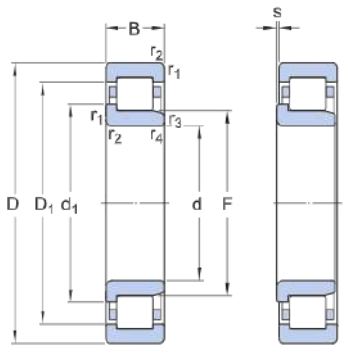
Basic dynamic load rating	52 kN
Basic static load rating	52 kN
Limiting speed	11 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

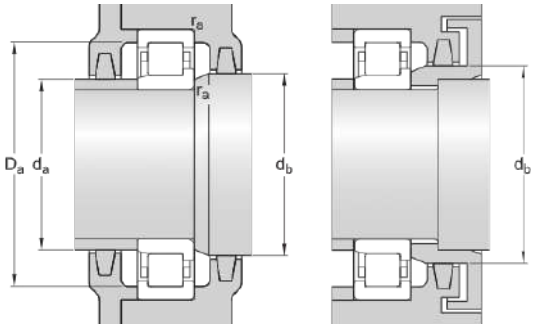
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	16 mm	Width
d_1	≈ 56 mm	Shoulder diameter of inner ring
D_1	≈ 65.3 mm	Shoulder diameter of outer ring
F	52.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 0.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48.4 mm	Diameter of spacer sleeve
d_a	max. 51 mm	Diameter of spacer sleeve
d_b	min. 57.5 mm	Diameter of shaft abutment
D_a	max. 69.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	52 kN
Basic static load rating	C_0	52 kN

Fatigue load limit	P_u	6.3 kN
Reference speed		11 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.26 kg

NJ 1011 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	90 mm
Width	18 mm

Performance

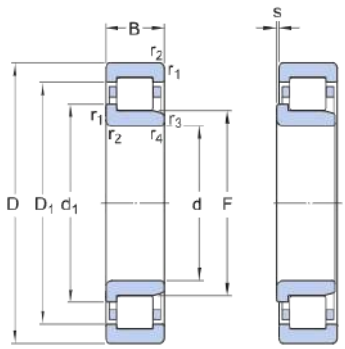
Basic dynamic load rating	65.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

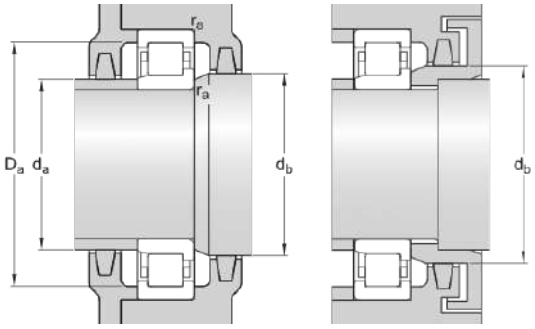
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	18 mm	Width
d_1	≈ 68 mm	Shoulder diameter of inner ring
D_1	≈ 79.19 mm	Shoulder diameter of outer ring
F	64.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension
s	max. 0.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 70 mm	Diameter of shaft abutment
D_a	max. 83 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	65.5 kN
Basic static load rating	C_0	69.5 kN

Fatigue load limit	P_u	8.3 kN
Reference speed		8 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.42 kg

NJ 2009 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	75 mm
Width	19 mm

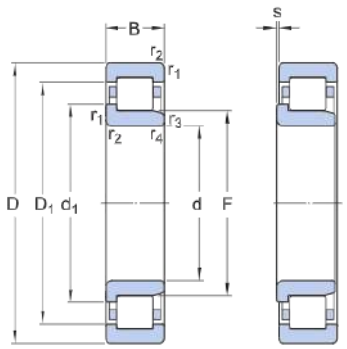
Performance

Basic dynamic load rating	52.8 kN
Basic static load rating	64 kN
Limiting speed	11 000 r/min
Reference speed	9 000 r/min

Properties

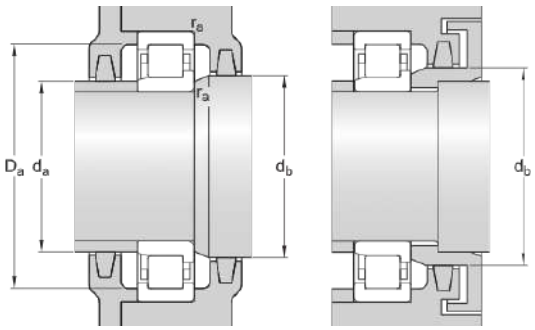
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	19 mm	Width
d_1	≈ 56 mm	Shoulder diameter of inner ring
D_1	≈ 65.5 mm	Shoulder diameter of outer ring
F	52.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 0.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 51 mm	Diameter of spacer sleeve
d_b	min. 57.5 mm	Diameter of shaft abutment
D_a	max. 69.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	52.8 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	7.8 kN
Reference speed		9 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.13

Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		0.3 kg

NJ 2203 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	16 mm

Performance

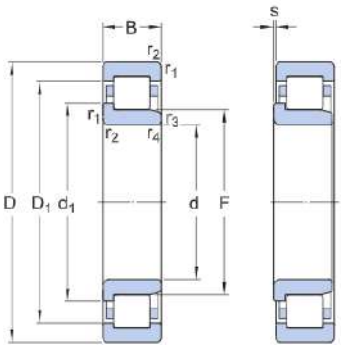
Basic dynamic load rating	27.5 kN
Basic static load rating	21.6 kN
Limiting speed	22 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

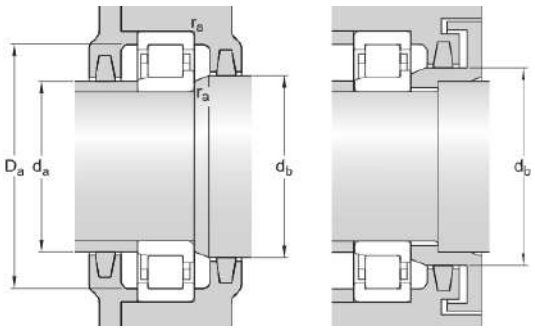
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	16 mm	Width
d_1	≈ 25 mm	Shoulder diameter of inner ring
D_1	≈ 32.35 mm	Shoulder diameter of outer ring
F	22.1 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 20.7 mm	Diameter of spacer sleeve
d_a	max. 21.1 mm	Diameter of spacer sleeve
d_b	min. 27 mm	Diameter of shaft abutment
D_a	max. 36 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	27.5 kN
Basic static load rating	C_0	21.6 kN

Fatigue load limit	P_u	2.65 kN
Reference speed		20 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.093 kg

NJ 2204 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	18 mm

Performance

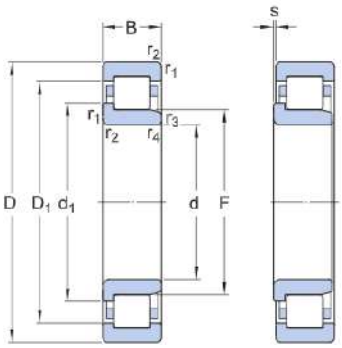
Basic dynamic load rating	34.5 kN
Basic static load rating	27.5 kN
Limiting speed	19 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

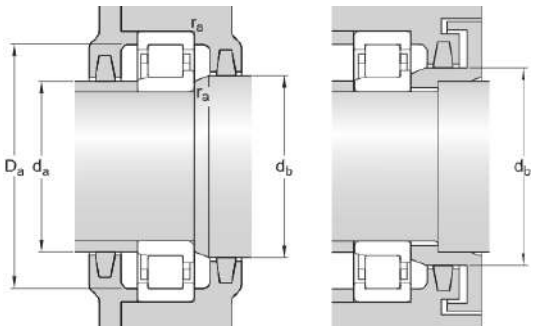
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	18 mm	Width
d_1	≈ 29.7 mm	Shoulder diameter of inner ring
D_1	≈ 38.3 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 25 mm	Diameter of spacer sleeve
d_a	max. 25.4 mm	Diameter of spacer sleeve
d_b	min. 31 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	34.5 kN
Basic static load rating	C_0	27.5 kN

Fatigue load limit	P_u	3.45 kN
Reference speed		17 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.14 kg

NJ 2205 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	18 mm

Performance

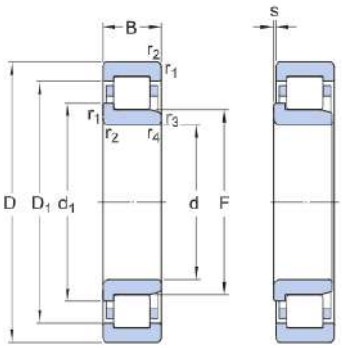
Basic dynamic load rating	39 kN
Basic static load rating	34 kN
Limiting speed	16 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

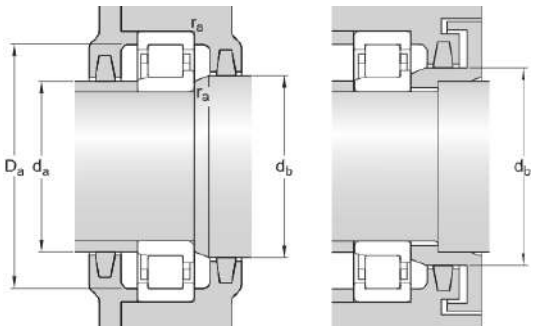
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
d_1	≈ 34.7 mm	Shoulder diameter of inner ring
D_1	≈ 43.3 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 29.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	39 kN
Basic static load rating	C_0	34 kN

Fatigue load limit	P_u	4.25 kN
Reference speed		15 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.17 kg

Associated products

Angle ring	HJ 2205 EC

NJ 2206 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	20 mm

Performance

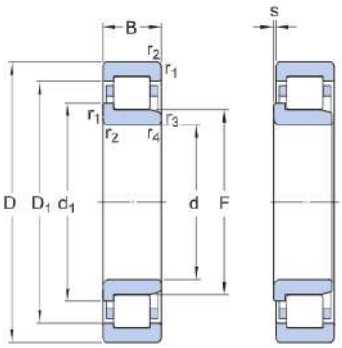
Basic dynamic load rating	55 kN
Basic static load rating	49 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

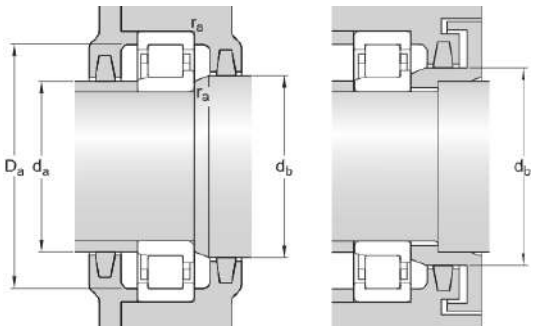
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
D_1	≈ 51.95 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	49 kN

Fatigue load limit	P_u	6.1 kN
Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.28 kg

NJ 2206 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	20 mm

Performance

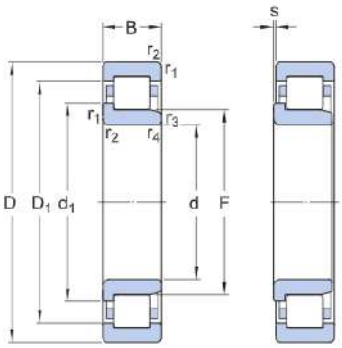
Basic dynamic load rating	55 kN
Basic static load rating	49 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

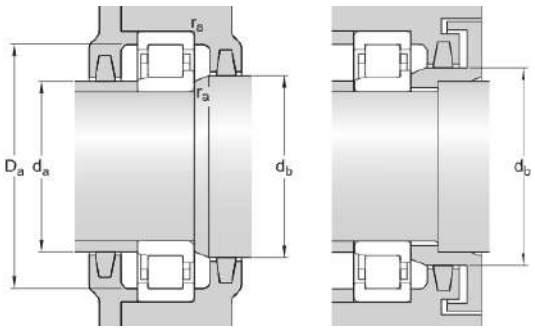
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
D_1	≈ 51.95 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	49 kN

Fatigue load limit	P_u	6.1 kN
Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.26 kg

NJ 2206 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	20 mm

Performance

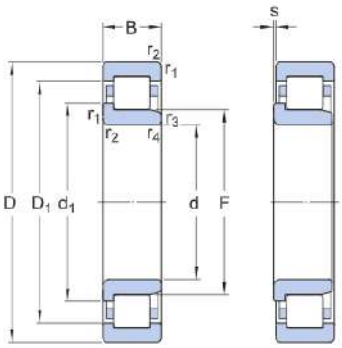
Basic dynamic load rating	55 kN
Basic static load rating	49 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

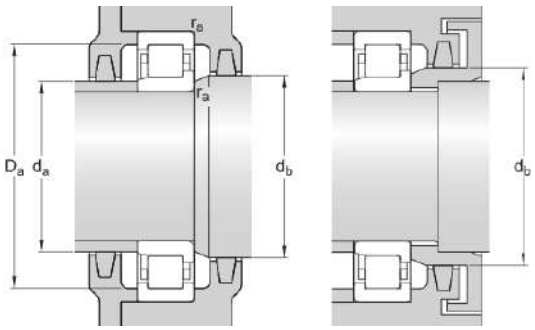
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
D_1	≈ 51.95 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	49 kN

Fatigue load limit	P_u	6.1 kN
Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.26 kg

NJ 2207 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

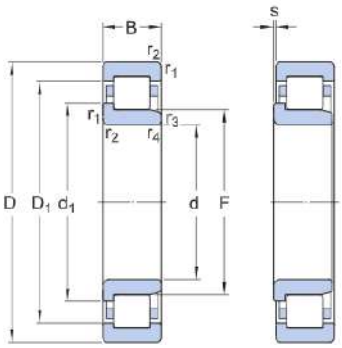
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

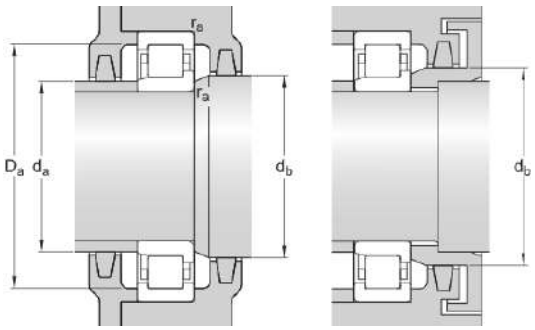
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.2 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.42 kg

NJ 2207 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

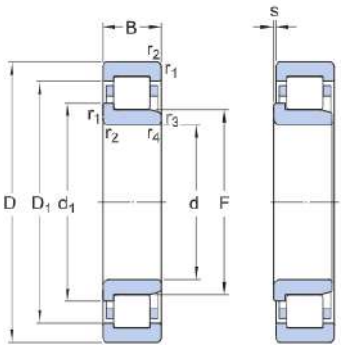
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	18 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

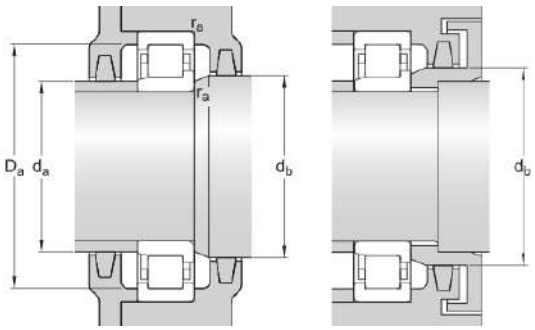
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.7 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		11 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.46 kg

NJ 2207 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

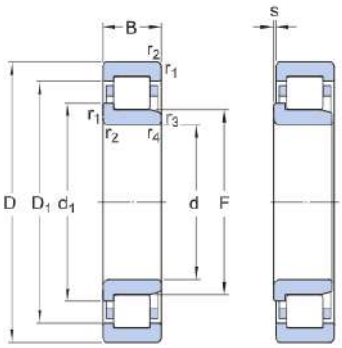
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

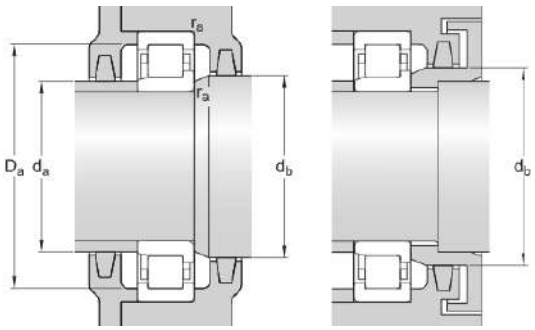
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.2 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.41 kg

NJ 2207 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

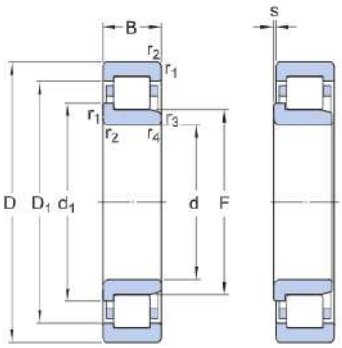
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

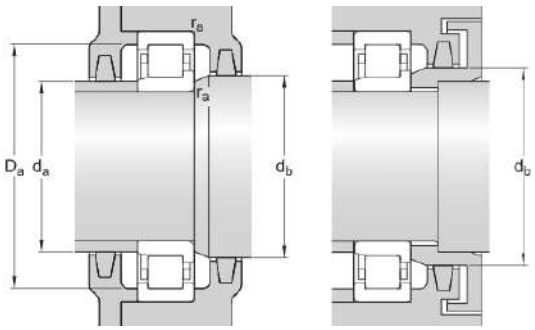
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.2 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.41 kg

NJ 2208 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

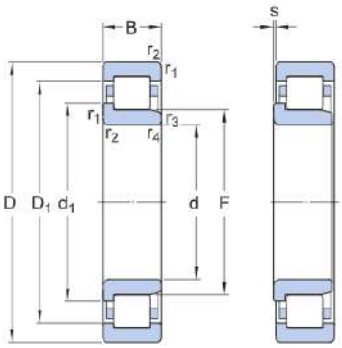
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

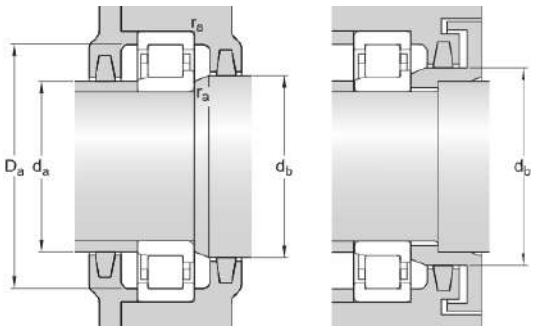
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.53 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN

Fatigue load limit	P_u	9.65 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.52 kg

Associated products

Angle ring	HJ 2208 EC

NJ 2208 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

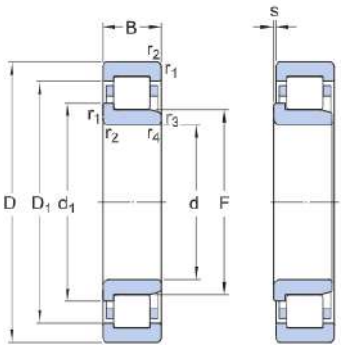
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	16 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

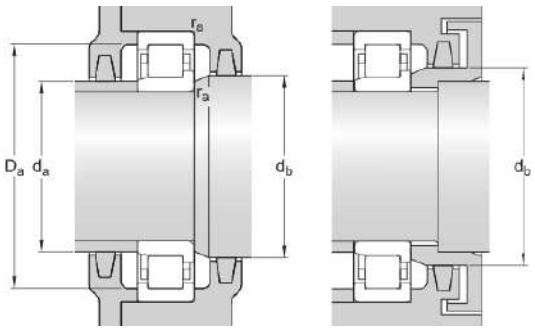
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.9 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
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d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN

Fatigue load limit	P_u	9.65 kN
Reference speed		9 500 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.57 kg

Associated products

Angle ring	HJ 2208 EC

NJ 2208 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

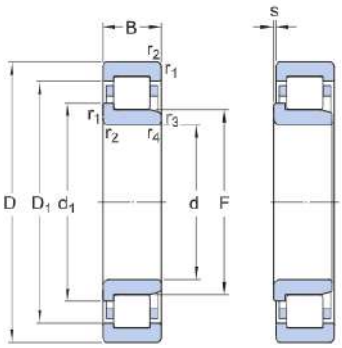
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

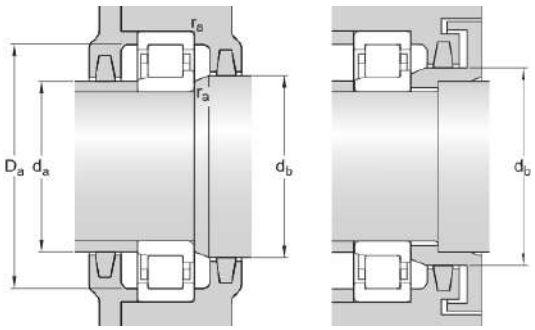
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.53 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN

Fatigue load limit	P_u	9.65 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.5 kg

Associated products

Angle ring	HJ 2208 EC

NJ 2208 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

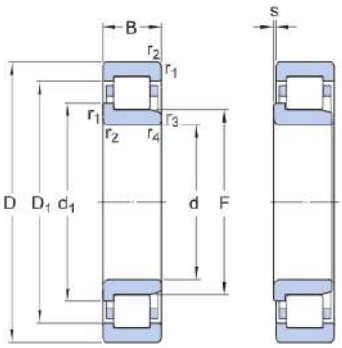
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

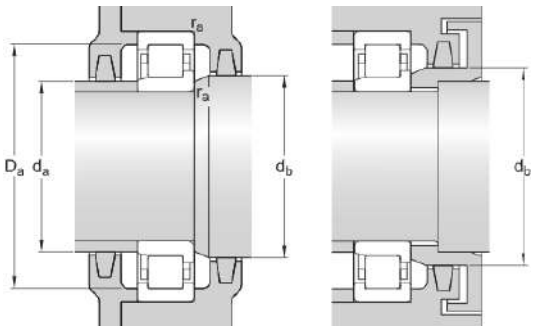
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.53 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN

Fatigue load limit	P_u	9.65 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.49 kg

Associated products

Angle ring	HJ 2208 EC

NJ 2209 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm

Performance

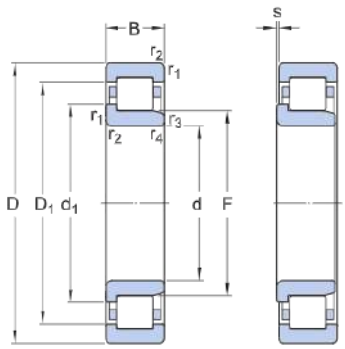
Basic dynamic load rating	85 kN
Basic static load rating	81.5 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

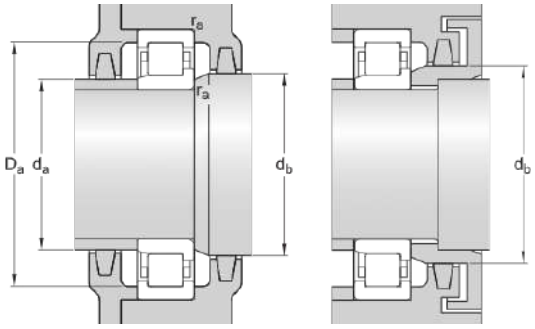
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN

Fatigue load limit	P_u	10.6 kN
Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.56 kg

NJ 2209 ECNJ

Single row cylindrical roller bearing, NJ design, with snap ring groove

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An annular groove in the outer ring enables the bearings to retain a snap ring. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm

Performance

Basic dynamic load rating	85 kN
Basic static load rating	81.5 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

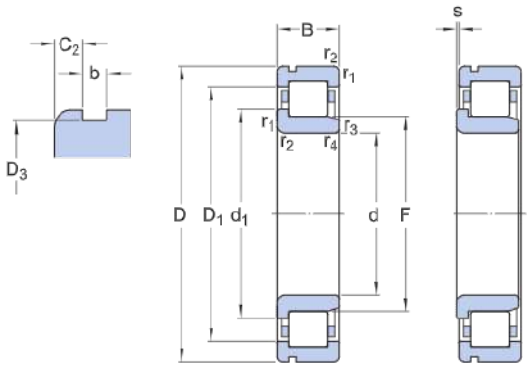
Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

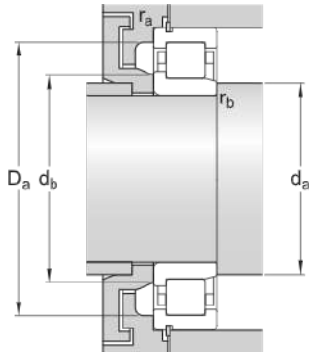
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.4 mm	Shoulder diameter of outer ring
D_3	81.81 mm	Diameter of snap ring groove
F	54.5 mm	Raceway diameter of inner ring
C_2	3.28 mm	Distance from outer ring side face to snap ring groove
b	1.9 mm	Width of snap ring groove
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	10.6 kN
Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		0.55 kg

NJ 2209 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm

Performance

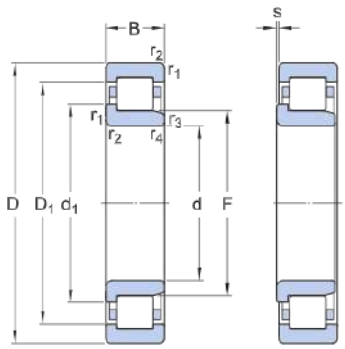
Basic dynamic load rating	85 kN
Basic static load rating	81.5 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

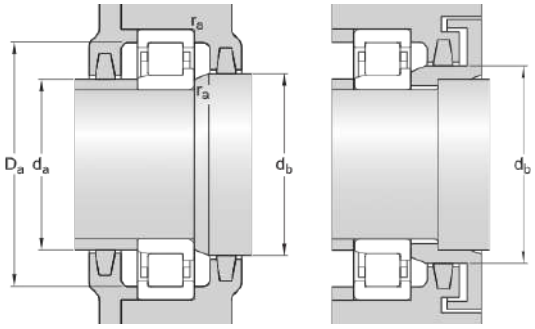
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN

Fatigue load limit	P_u	10.6 kN
Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.54 kg

NJ 2209 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm

Performance

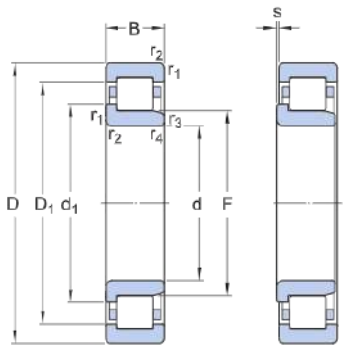
Basic dynamic load rating	85 kN
Basic static load rating	81.5 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

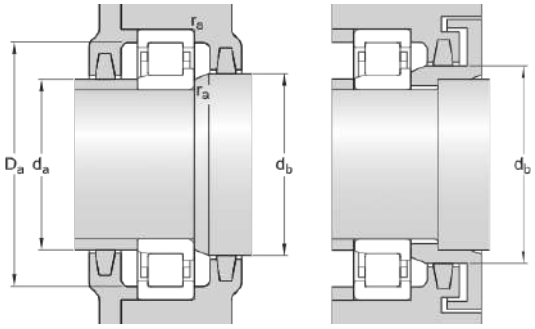
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN

Fatigue load limit	P_u	10.6 kN
Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.54 kg

NJ 2210 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

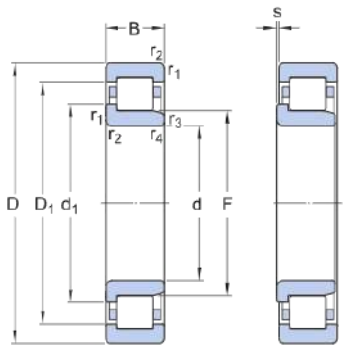
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

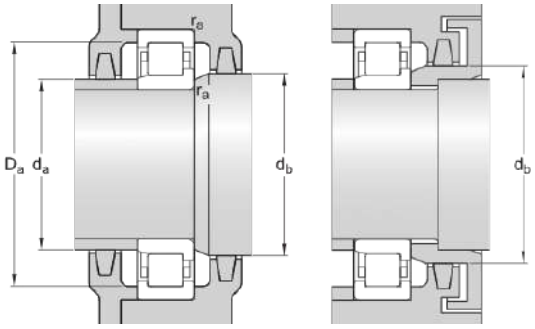
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN

Fatigue load limit	P_u	11.4 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.6 kg

NJ 2210 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

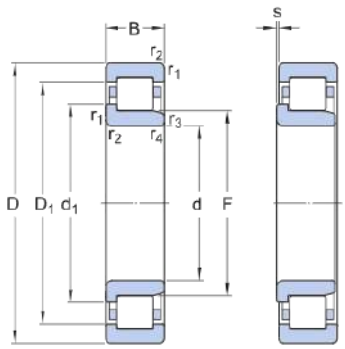
Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without

Lubricant	None
Relubrication feature	Without

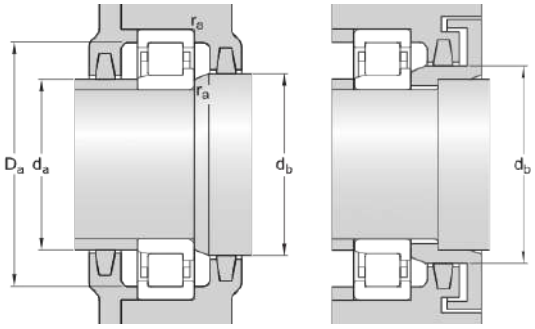
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.95 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN

Fatigue load limit	P_u	11.4 kN
Reference speed		8 500 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.65 kg

NJ 2210 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

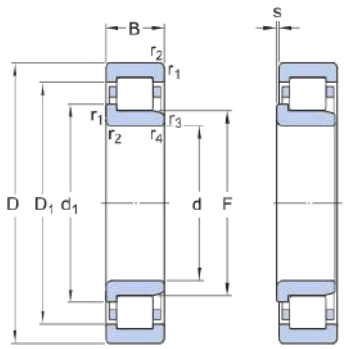
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

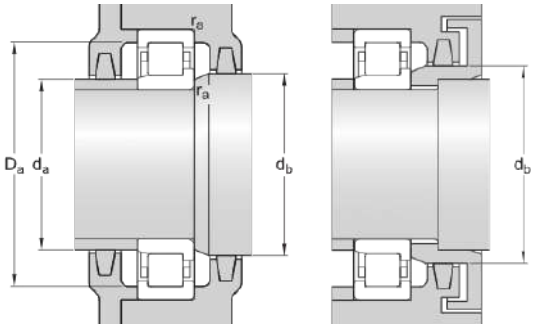
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN

Fatigue load limit	P_u	11.4 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.57 kg

NJ 2210 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

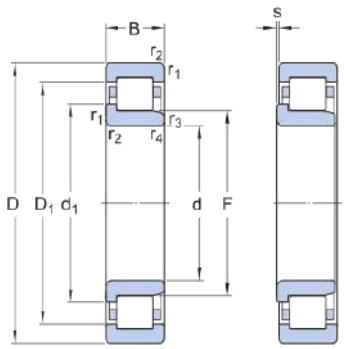
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

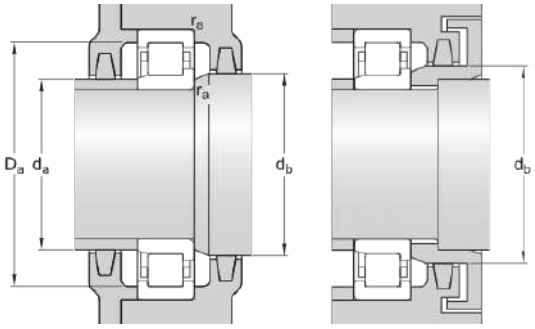
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN

Fatigue load limit	P_u	11.4 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.57 kg

NJ 2211 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	25 mm

Performance

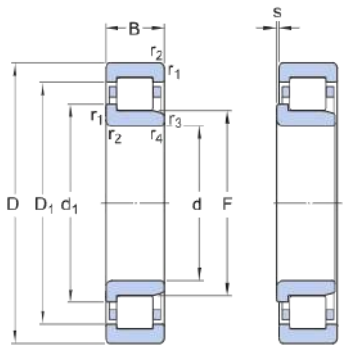
Basic dynamic load rating	114 kN
Basic static load rating	118 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

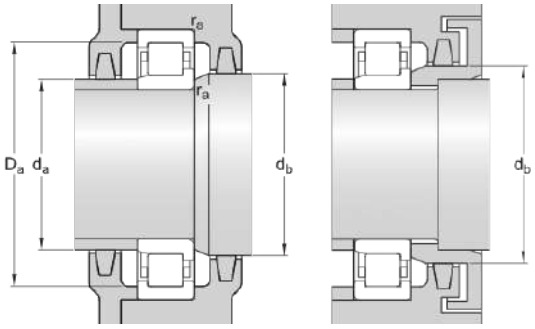
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
D_1	≈ 85.7 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	118 kN

Fatigue load limit	P_u	15.3 kN
Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.81 kg

Associated products

Angle ring	HJ 2211 EC

NJ 2211 ECM

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	25 mm

Performance

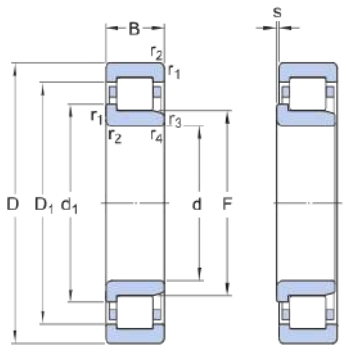
Basic dynamic load rating	114 kN
Basic static load rating	118 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

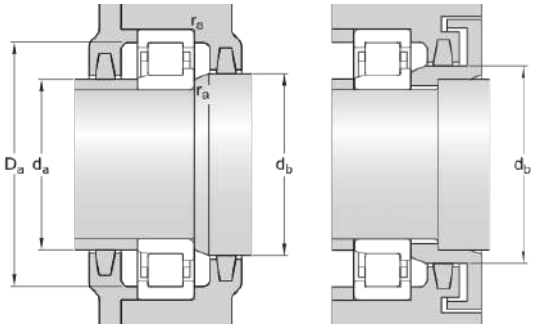
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
D_1	≈ 85.7 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	118 kN

Fatigue load limit	P_u	15.3 kN
Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.91 kg

Associated products

Angle ring	HJ 2211 EC

NJ 2211 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	25 mm

Performance

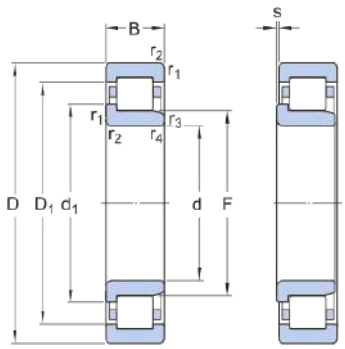
Basic dynamic load rating	114 kN
Basic static load rating	118 kN
Reference speed	7 500 r/min
Limiting speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

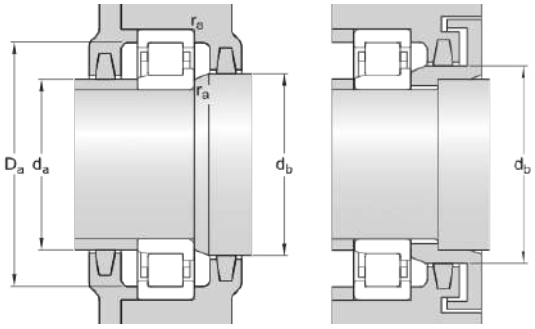
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
D_1	≈ 86.25 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	118 kN

Fatigue load limit	P_u	15.3 kN
Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.9 kg

Associated products

Angle ring	HJ 2211 EC

NJ 2211 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	25 mm

Performance

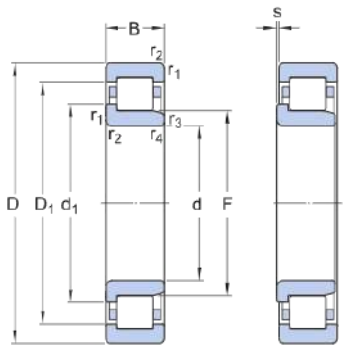
Basic dynamic load rating	114 kN
Basic static load rating	118 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

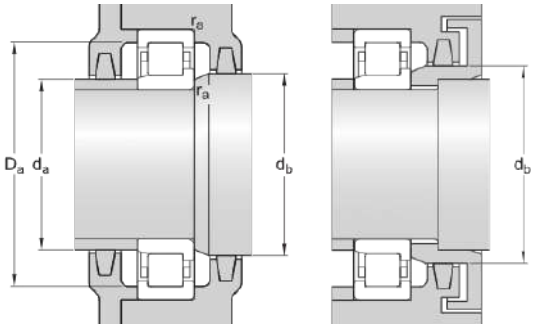
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
D_1	≈ 85.7 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	118 kN

Fatigue load limit	P_u	15.3 kN
Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.81 kg

Associated products

Angle ring	HJ 2211 EC

NJ 2211 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	25 mm

Performance

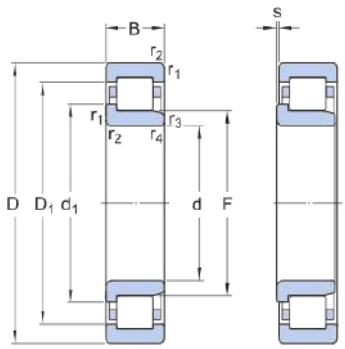
Basic dynamic load rating	114 kN
Basic static load rating	118 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

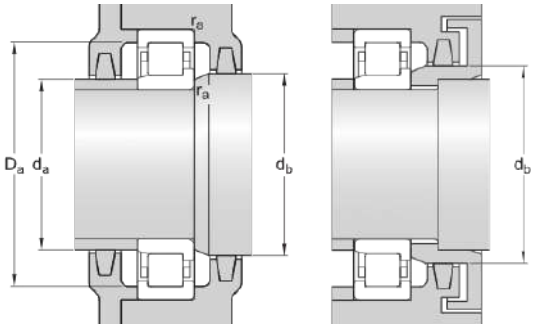
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
D_1	≈ 85.7 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 63 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	118 kN

Fatigue load limit	P_u	15.3 kN
Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.8 kg

Associated products

Angle ring	HJ 2211 EC

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NJ 2304 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width	21 mm

Performance

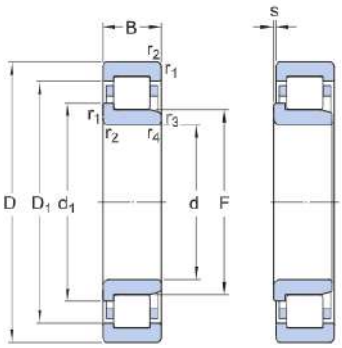
Basic dynamic load rating	47.5 kN
Basic static load rating	38 kN
Limiting speed	18 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

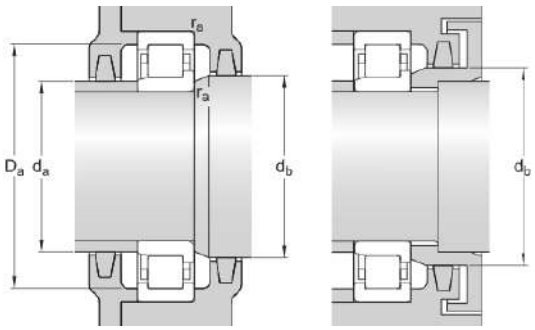
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	21 mm	Width
d_1	≈ 31.2 mm	Shoulder diameter of inner ring
D_1	≈ 41.85 mm	Shoulder diameter of outer ring
F	27.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 26.1 mm	Diameter of spacer sleeve
d_a	max. 26.2 mm	Diameter of spacer sleeve
d_b	min. 33 mm	Diameter of shaft abutment
D_a	max. 45.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	47.5 kN
Basic static load rating	C_0	38 kN

Fatigue load limit	P_u	4.8 kN
Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.22 kg

NJ 2305 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	24 mm

Performance

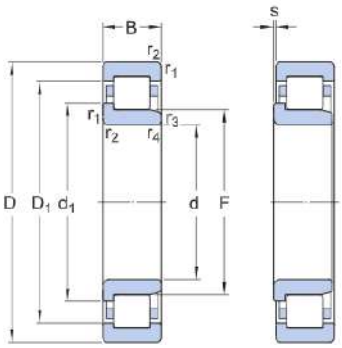
Basic dynamic load rating	64 kN
Basic static load rating	55 kN
Limiting speed	22 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

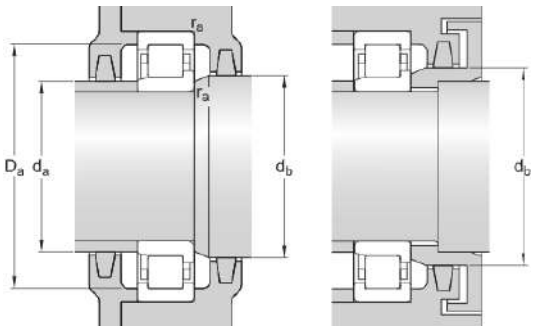
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.65 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	64 kN
Basic static load rating	C_0	55 kN

Fatigue load limit	P_u	6.95 kN
Reference speed		12 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.39 kg

Associated products

Angle ring	HJ 2305 EC

NJ 2305 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	24 mm

Performance

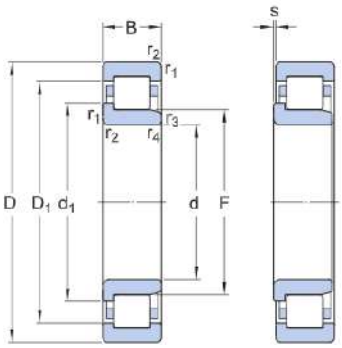
Basic dynamic load rating	64 kN
Basic static load rating	55 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

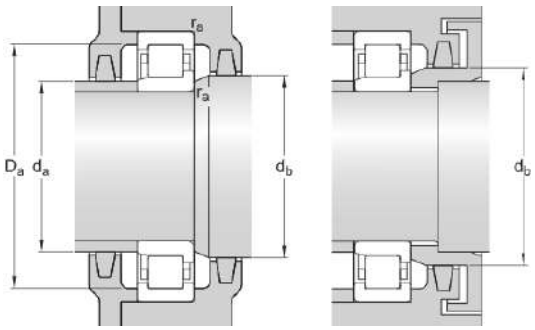
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.15 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	64 kN
Basic static load rating	C_0	55 kN

Fatigue load limit	P_u	6.95 kN
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.35 kg

Associated products

Angle ring	HJ 2305 EC

NJ 2306 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm

Performance

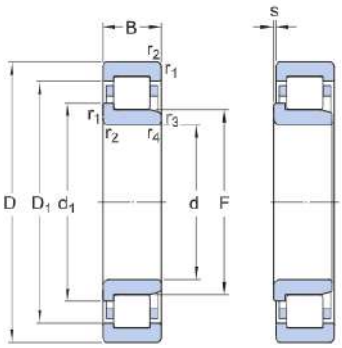
Basic dynamic load rating	83 kN
Basic static load rating	75 kN
Limiting speed	19 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

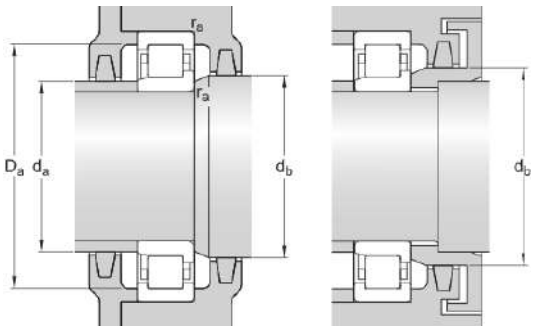
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	27 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.85 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	83 kN
Basic static load rating	C_0	75 kN

Fatigue load limit	P_u	9.65 kN
Reference speed		11 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.6 kg

NJ 2306 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm

Performance

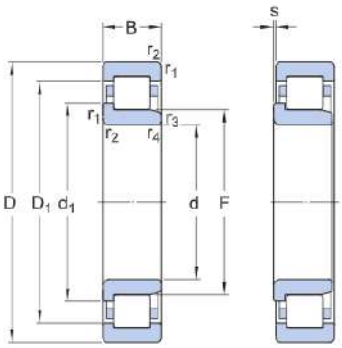
Basic dynamic load rating	83 kN
Basic static load rating	75 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

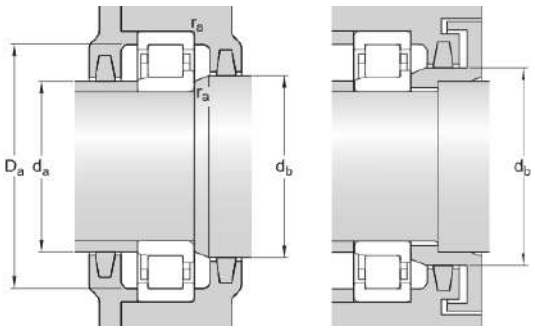
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	27 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.48 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	83 kN
Basic static load rating	C_0	75 kN

Fatigue load limit	P_u	9.65 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.54 kg

NJ 2306 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm

Performance

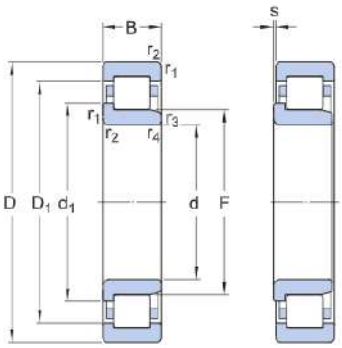
Basic dynamic load rating	83 kN
Basic static load rating	75 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

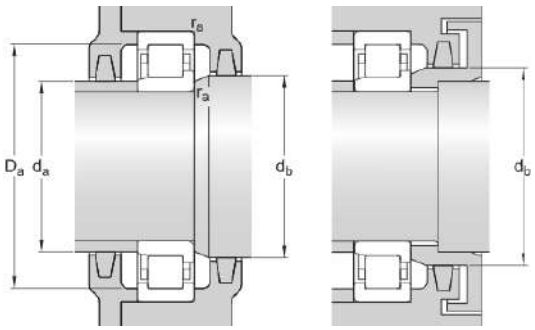
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	27 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.48 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	83 kN
Basic static load rating	C_0	75 kN

Fatigue load limit	P_u	9.65 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.54 kg

NJ 2307 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	31 mm

Performance

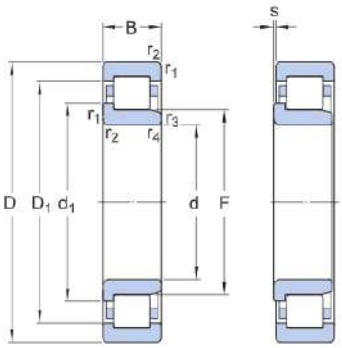
Basic dynamic load rating	106 kN
Basic static load rating	98 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

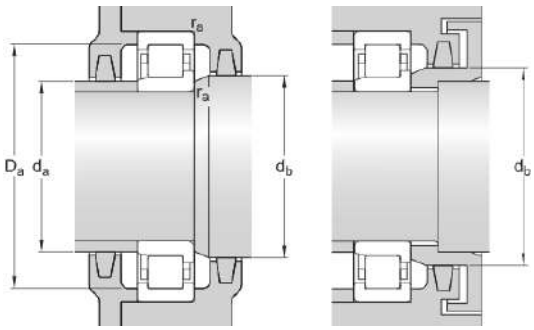
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	31 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	98 kN

Fatigue load limit	P_u	12.7 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.73 kg

NJ 2307 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	31 mm

Performance

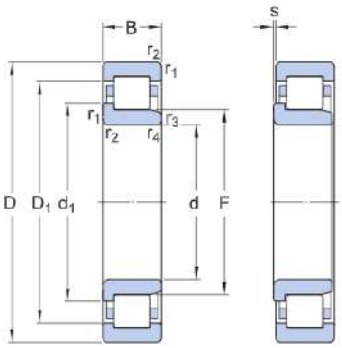
Basic dynamic load rating	106 kN
Basic static load rating	98 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

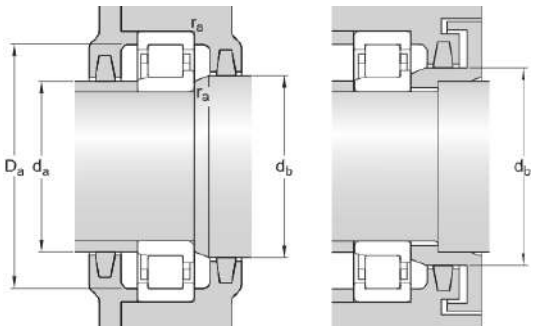
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	31 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	98 kN

Fatigue load limit	P_u	12.7 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.73 kg

NJ 2308 ECJ

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

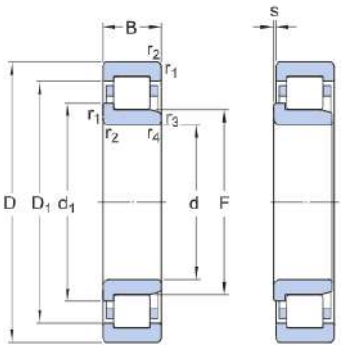
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

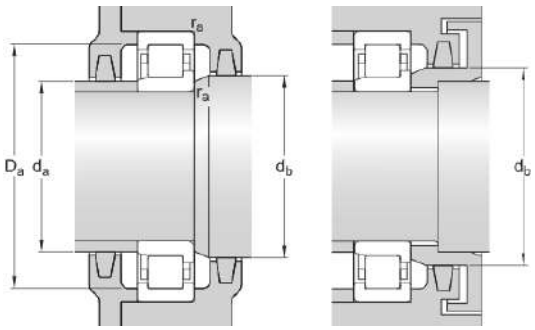
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 2.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN

Fatigue load limit	P_u	15.3 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.01 kg

NJ 2308 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

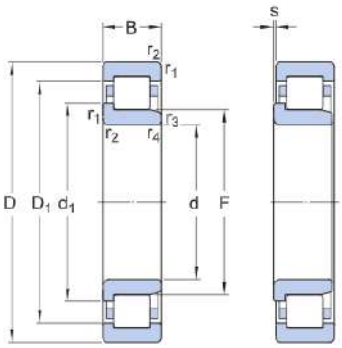
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	15 000 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

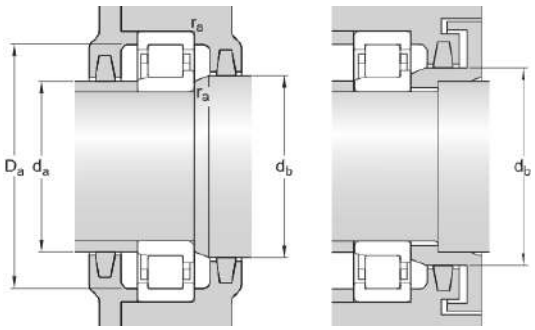
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.55 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 2.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN

Fatigue load limit	P_u	15.3 kN
Reference speed		8 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.1 kg

NJ 2308 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

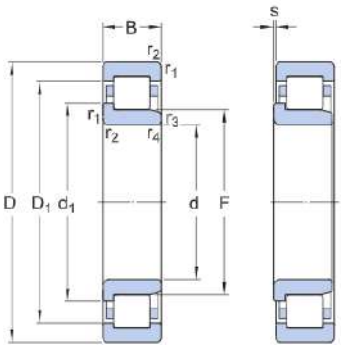
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

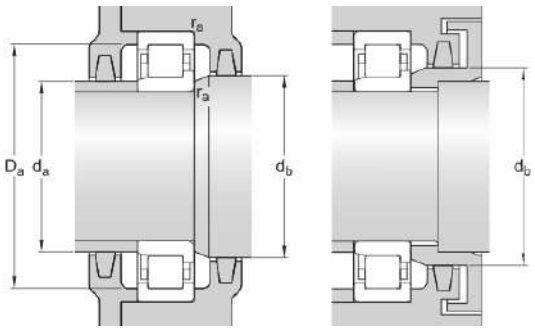
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 2.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN

Fatigue load limit	P_u	15.3 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.95 kg

NJ 2308 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

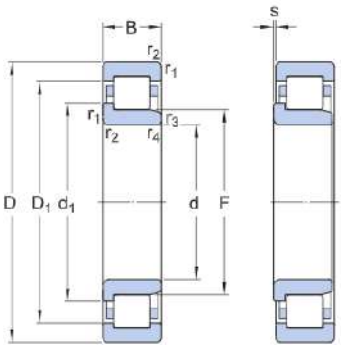
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

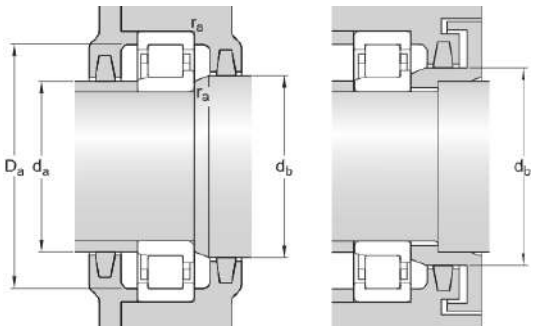
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 2.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN

Fatigue load limit	P_u	15.3 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.95 kg

NJ 2309 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	36 mm

Performance

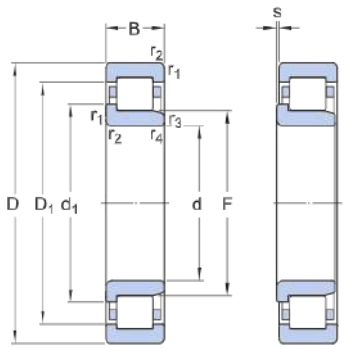
Basic dynamic load rating	160 kN
Basic static load rating	153 kN
Limiting speed	13 000 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

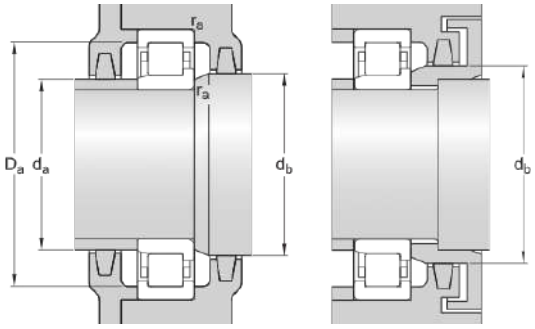
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.75 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 3.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	160 kN
Basic static load rating	C_0	153 kN

Fatigue load limit	P_u	20 kN
Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.46 kg

NJ 2309 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	36 mm

Performance

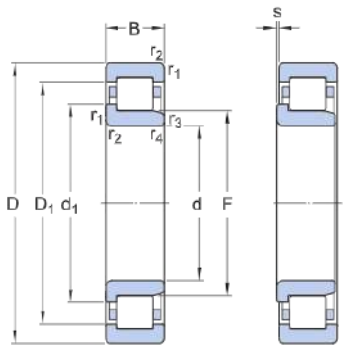
Basic dynamic load rating	160 kN
Basic static load rating	153 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

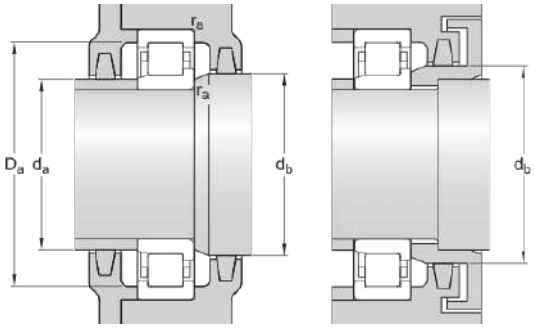
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 3.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	160 kN
Basic static load rating	C_0	153 kN

Fatigue load limit	P_u	20 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.33 kg

NJ 2310 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	40 mm

Performance

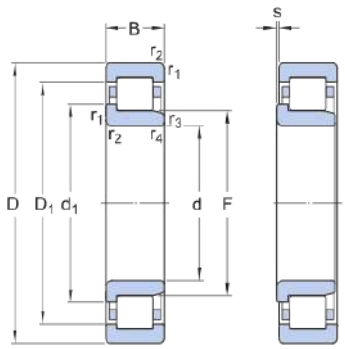
Basic dynamic load rating	186 kN
Basic static load rating	186 kN
Reference speed	6 700 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

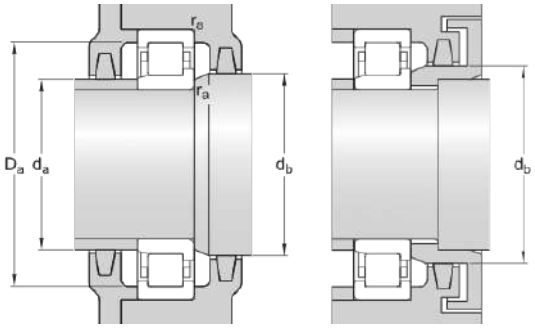
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 92.05 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 3.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	186 kN

Fatigue load limit	P_u	24.5 kN
Reference speed		6 700 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.98 kg

NJ 2310 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	40 mm

Performance

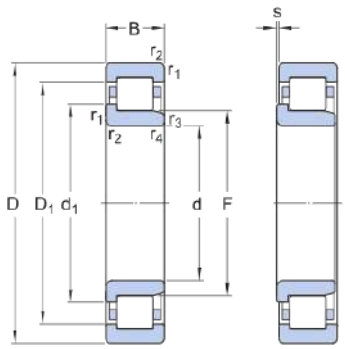
Basic dynamic load rating	186 kN
Basic static load rating	186 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

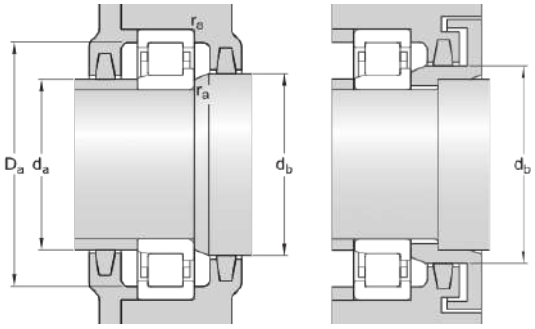
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 3.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	186 kN

Fatigue load limit	P_u	24.5 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.77 kg

NJ 2310 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	40 mm

Performance

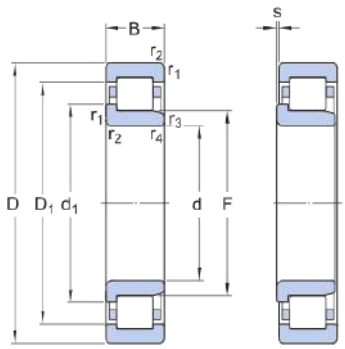
Basic dynamic load rating	186 kN
Basic static load rating	186 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

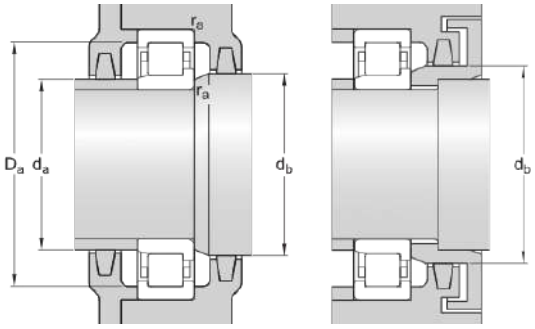
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 3.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	186 kN

Fatigue load limit	P_u	24.5 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.77 kg

NJ 2311 ECML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	43 mm

Performance

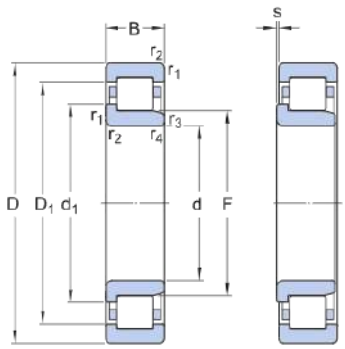
Basic dynamic load rating	232 kN
Basic static load rating	232 kN
Reference speed	6 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

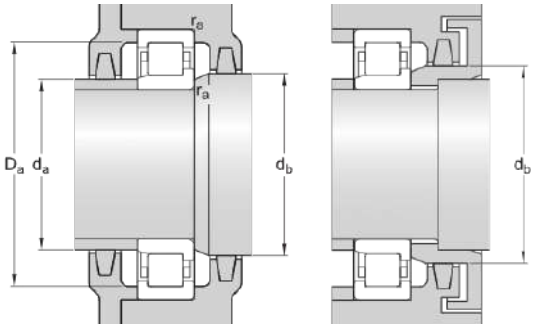
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	43 mm	Width
d_1	≈ 77.5 mm	Shoulder diameter of inner ring
D_1	≈ 101 mm	Shoulder diameter of outer ring
F	70.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 3.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 65 mm	Diameter of spacer sleeve
d_a	max. 68 mm	Diameter of spacer sleeve
d_b	min. 80 mm	Diameter of shaft abutment
D_a	max. 109.2 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	232 kN
Basic static load rating	C_0	232 kN

Fatigue load limit	P_u	30.5 kN
Reference speed		6 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	2.54 kg

Associated products

Angle ring	HJ 2311 EC

NJ 2311 ECP

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	43 mm

Performance

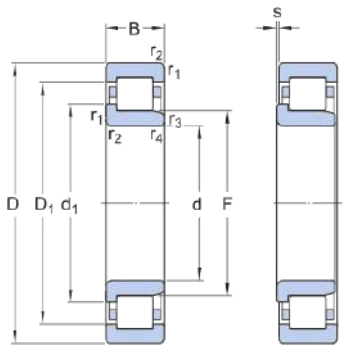
Basic dynamic load rating	232 kN
Basic static load rating	232 kN
Reference speed	6 000 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

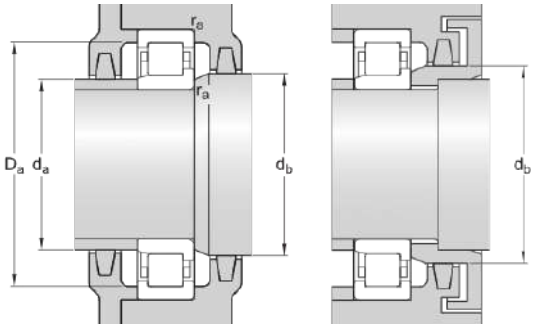
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	43 mm	Width
d_1	≈ 77.5 mm	Shoulder diameter of inner ring
D_1	≈ 100.3 mm	Shoulder diameter of outer ring
F	70.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 3.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 65 mm	Diameter of spacer sleeve
d_a	max. 68 mm	Diameter of spacer sleeve
d_b	min. 80 mm	Diameter of shaft abutment
D_a	max. 109.2 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	232 kN
Basic static load rating	C_0	232 kN

Fatigue load limit	P_u	30.5 kN
Reference speed		6 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	2.26 kg

Associated products

Angle ring	HJ 2311 EC

NJ 2311 ECPH

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	120 mm
Width	43 mm

Performance

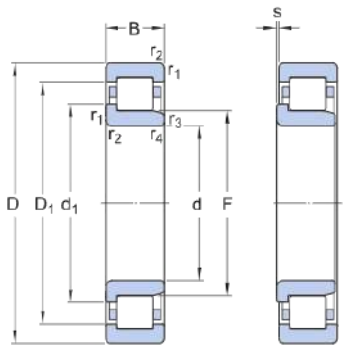
Basic dynamic load rating	232 kN
Basic static load rating	232 kN
Reference speed	6 000 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

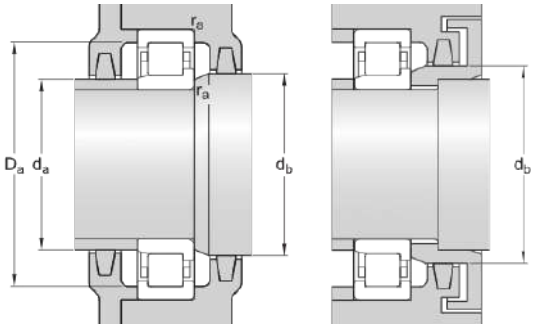
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	43 mm	Width
d_1	≈ 77.5 mm	Shoulder diameter of inner ring
D_1	≈ 100.3 mm	Shoulder diameter of outer ring
F	70.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 3.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 65 mm	Diameter of spacer sleeve
d_a	max. 68 mm	Diameter of spacer sleeve
d_b	min. 80 mm	Diameter of shaft abutment
D_a	max. 109.2 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	232 kN
Basic static load rating	C_0	232 kN

Fatigue load limit	P_u	30.5 kN
Reference speed		6 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	2.26 kg

Associated products

Angle ring	HJ 2311 EC

NNC 4830 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	190 mm
Width	40 mm

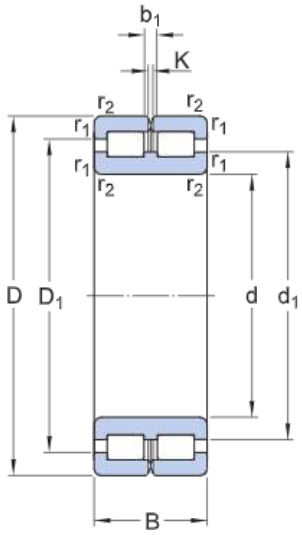
Performance

Basic dynamic load rating	255 kN
Basic static load rating	585 kN
Limiting speed	1 800 r/min
Reference speed	1 500 r/min

Properties

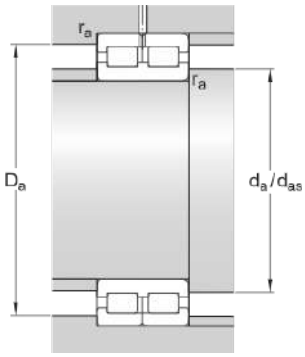
Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	150 mm	Bore diameter
D	190 mm	Outside diameter
B	40 mm	Width
d_1	≈ 166 mm	Shoulder diameter inner ring
D_1	≈ 173 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 156 mm	Abutment diameter shaft
d_{as}	161 mm	Abutment diameter shaft
D_a	max. 184 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	255 kN
Basic static load rating	C_0	585 kN
Fatigue load limit	P_u	60 kN
Reference speed		1 500 r/min
Limiting speed		1 800 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	2.9 kg

NNC 4832 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	200 mm
Width	40 mm

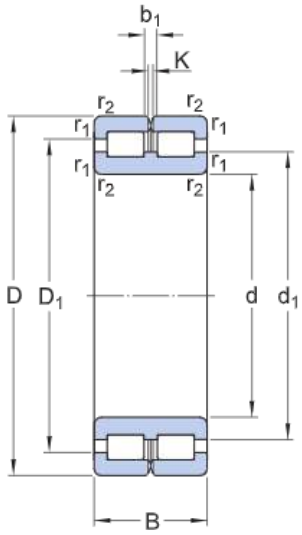
Performance

Basic dynamic load rating	260 kN
Basic static load rating	610 kN
Limiting speed	1 700 r/min
Reference speed	1 400 r/min

Properties

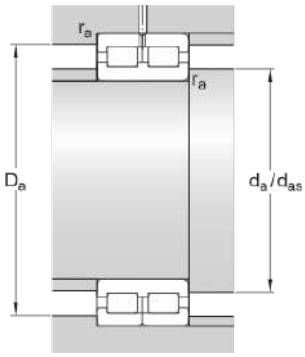
Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	160 mm	Bore diameter
D	200 mm	Outside diameter
B	40 mm	Width
d_1	≈ 174 mm	Shoulder diameter inner ring
D_1	≈ 182 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 166 mm	Abutment diameter shaft
d_{as}	170 mm	Abutment diameter shaft
D_a	max. 194 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	260 kN
Basic static load rating	C_0	610 kN
Fatigue load limit	P_u	62 kN
Reference speed		1 400 r/min
Limiting speed		1 700 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	3.1 kg

NNC 4834 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	215 mm
Width	45 mm

Performance

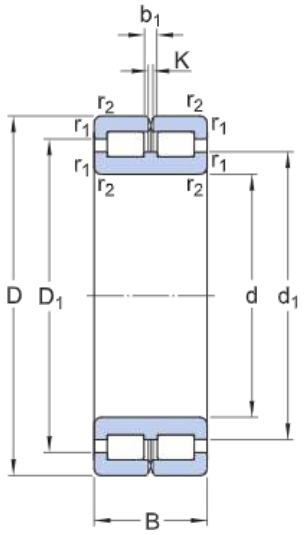
Basic dynamic load rating	286 kN
Basic static load rating	655 kN
Limiting speed	1 600 r/min
Reference speed	1 300 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

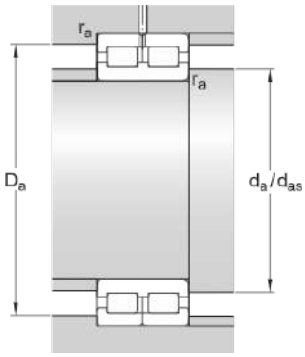
Technical Specification

Dimensions



d	170 mm	Bore diameter
D	215 mm	Outside diameter
B	45 mm	Width
d_1	≈ 187 mm	Shoulder diameter inner ring
D_1	≈ 196 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)

Abutment dimensions



d_a	min. 176 mm	Abutment diameter shaft
d_{as}	182 mm	Abutment diameter shaft
D_a	max. 209 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	286 kN
Basic static load rating	C_0	655 kN
Fatigue load limit	P_u	65.5 kN
Reference speed		1 300 r/min
Limiting speed		1 600 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	4 kg

NNC 4836 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	225 mm
Width	45 mm

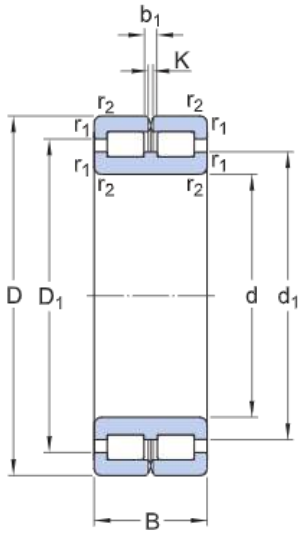
Performance

Basic dynamic load rating	297 kN
Basic static load rating	695 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

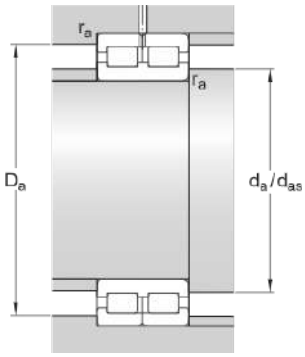
Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	180 mm	Bore diameter
D	225 mm	Outside diameter
B	45 mm	Width
d_1	≈ 200 mm	Shoulder diameter inner ring
D_1	≈ 208.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 186 mm	Abutment diameter shaft
d_{as}	193 mm	Abutment diameter shaft
D_a	max. 219 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	297 kN
Basic static load rating	C_0	695 kN
Fatigue load limit	P_u	69.5 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	4.3 kg

NNC 4838 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	240 mm
Width	50 mm

Performance

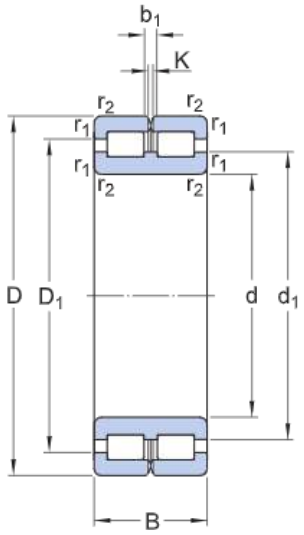
Basic dynamic load rating	358 kN
Basic static load rating	750 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

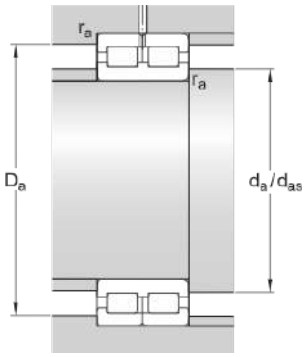
Technical Specification

Dimensions



d	190 mm	Bore diameter
D	240 mm	Outside diameter
B	50 mm	Width
d_1	≈ 209 mm	Shoulder diameter inner ring
D_1	≈ 219 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)

Abutment dimensions



d_a	min. 197 mm	Abutment diameter shaft
d_{as}	203 mm	Abutment diameter shaft
D_a	max. 233 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	358 kN
Basic static load rating	C_0	750 kN
Fatigue load limit	P_u	76.5 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	5.65 kg

NNC 4840 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	250 mm
Width	50 mm

Performance

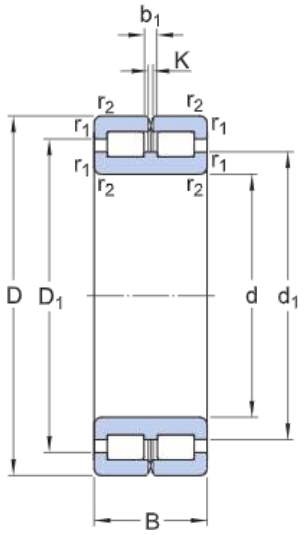
Basic dynamic load rating	369 kN
Basic static load rating	800 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

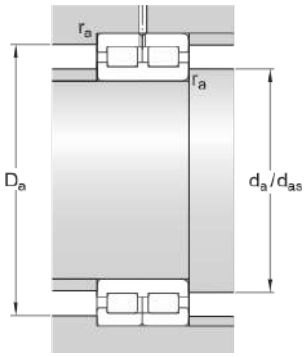
Technical Specification

Dimensions



d	200 mm	Bore diameter
D	250 mm	Outside diameter
B	50 mm	Width
d_1	≈ 220 mm	Shoulder diameter inner ring
D_1	≈ 229.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)

Abutment dimensions



d_a	min. 207 mm	Abutment diameter shaft
d_{as}	213 mm	Abutment diameter shaft
D_a	max. 243 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	369 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	80 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	5.9 kg

NNC 4844 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	270 mm
Width	50 mm

Performance

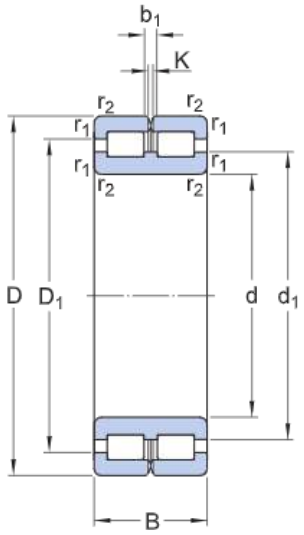
Basic dynamic load rating	352 kN
Basic static load rating	865 kN
Limiting speed	1 200 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

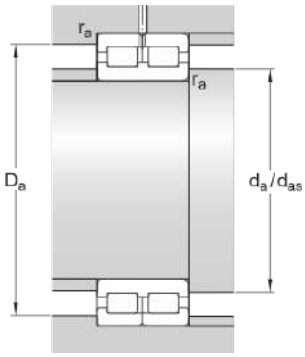
Technical Specification

Dimensions



d	220 mm	Bore diameter
D	270 mm	Outside diameter
B	50 mm	Width
d_1	≈ 241 mm	Shoulder diameter inner ring
D_1	≈ 250.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)

Abutment dimensions



d_a	min. 227 mm	Abutment diameter shaft
d_{as}	233 mm	Abutment diameter shaft
D_a	max. 263 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	352 kN
Basic static load rating	C_0	865 kN
Fatigue load limit	P_u	85 kN
Reference speed		1 000 r/min
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	6.4 kg

NNC 4848 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	300 mm
Width	60 mm

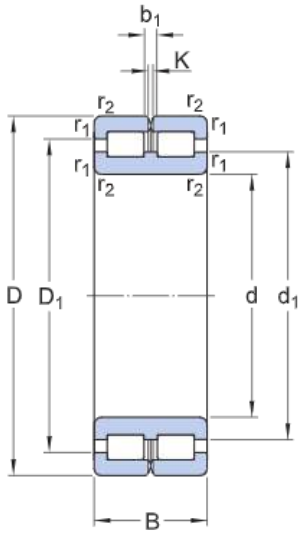
Performance

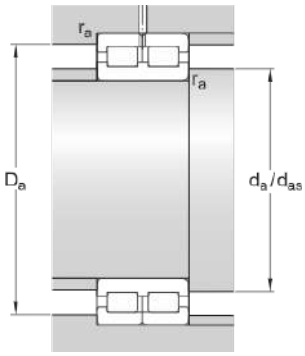
Basic dynamic load rating	539 kN
Basic static load rating	1 290 kN
Limiting speed	1 100 r/min
Reference speed	900 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	240 mm	Bore diameter
D	300 mm	Outside diameter
B	60 mm	Width
d_1	≈ 261 mm	Shoulder diameter inner ring
D_1	≈ 275 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 249 mm	Abutment diameter shaft
d_{as}	254 mm	Abutment diameter shaft
D_a	max. 292 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	539 kN
Basic static load rating	C_0	1 290 kN
Fatigue load limit	P_u	125 kN
Reference speed		900 r/min
Limiting speed		1 100 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	10 kg

NNC 4852 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	320 mm
Width	60 mm

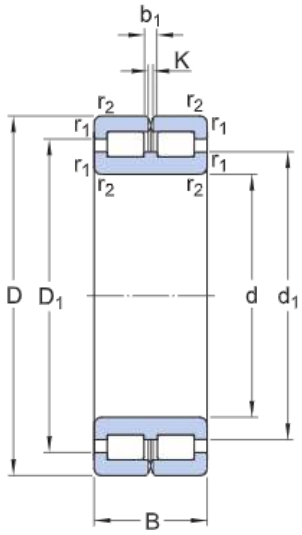
Performance

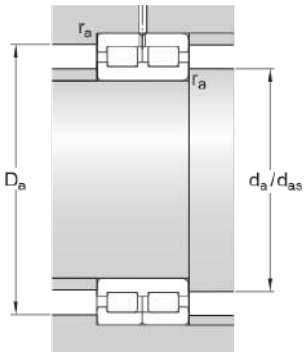
Basic dynamic load rating	561 kN
Basic static load rating	1 400 kN
Limiting speed	1 000 r/min
Reference speed	800 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	260 mm	Bore diameter
D	320 mm	Outside diameter
B	60 mm	Width
d_1	≈ 283.5 mm	Shoulder diameter inner ring
D_1	≈ 297 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 269 mm	Abutment diameter shaft
d_{as}	276 mm	Abutment diameter shaft
D_a	max. 311 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	561 kN
Basic static load rating	C_0	1 400 kN
Fatigue load limit	P_u	132 kN
Reference speed		800 r/min
Limiting speed		1 000 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	11 kg

NNC 4856 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	350 mm
Width	69 mm

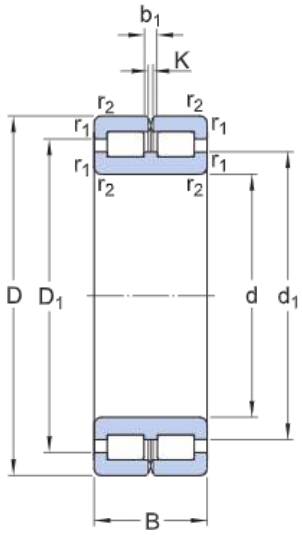
Performance

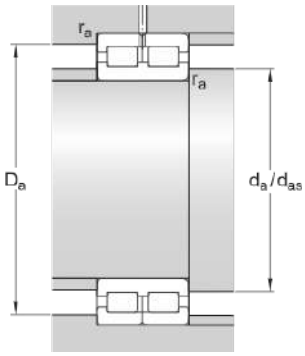
Basic dynamic load rating	737 kN
Basic static load rating	1 860 kN
Limiting speed	950 r/min
Reference speed	750 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	280 mm	Bore diameter
D	350 mm	Outside diameter
B	69 mm	Width
d_1	≈ 308 mm	Shoulder diameter inner ring
D_1	≈ 326 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 290 mm	Abutment diameter shaft
d_{as}	299 mm	Abutment diameter shaft
D_a	max. 341 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	737 kN
Basic static load rating	C_0	1 860 kN
Fatigue load limit	P_u	173 kN
Reference speed		750 r/min
Limiting speed		950 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	16 kg

NNC 4860 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	380 mm
Width	80 mm

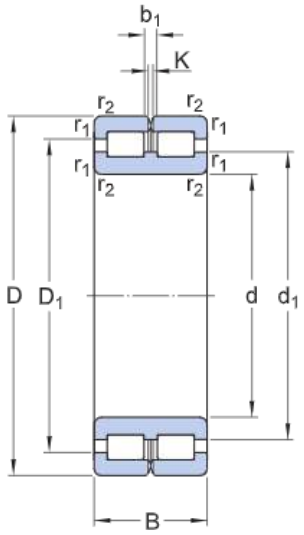
Performance

Basic dynamic load rating	858 kN
Basic static load rating	2 120 kN
Limiting speed	850 r/min
Reference speed	700 r/min

Properties

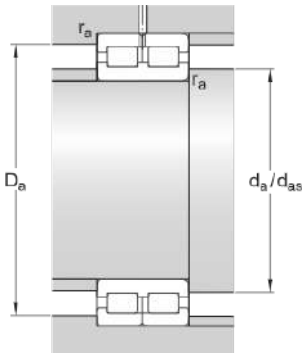
Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	300 mm	Bore diameter
D	380 mm	Outside diameter
B	80 mm	Width
d_1	≈ 330 mm	Shoulder diameter inner ring
D_1	≈ 349 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 310 mm	Abutment diameter shaft
d_{as}	319 mm	Abutment diameter shaft
D_a	max. 370 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	858 kN
Basic static load rating	C_0	2 120 kN
Fatigue load limit	P_u	196 kN
Reference speed		700 r/min
Limiting speed		850 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	23 kg

NNC 4864 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	400 mm
Width	80 mm

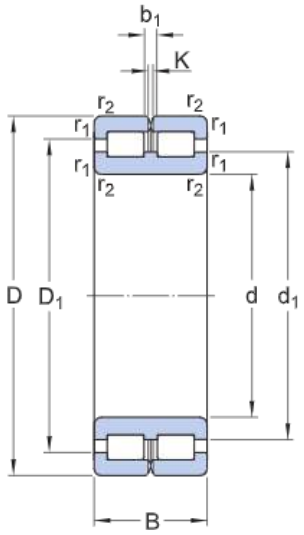
Performance

Basic dynamic load rating	897 kN
Basic static load rating	2 280 kN
Limiting speed	800 r/min
Reference speed	630 r/min

Properties

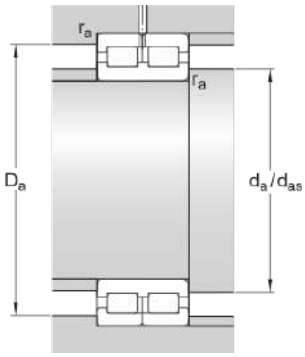
Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	320 mm	Bore diameter
D	400 mm	Outside diameter
B	80 mm	Width
d_1	≈ 352 mm	Shoulder diameter inner ring
D_1	≈ 372 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 331 mm	Abutment diameter shaft
d_{as}	341 mm	Abutment diameter shaft
D_a	max. 390 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	897 kN
Basic static load rating	C_0	2 280 kN
Fatigue load limit	P_u	208 kN
Reference speed		630 r/min
Limiting speed		800 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	24 kg

NNC 4868 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	420 mm
Width	80 mm

Performance

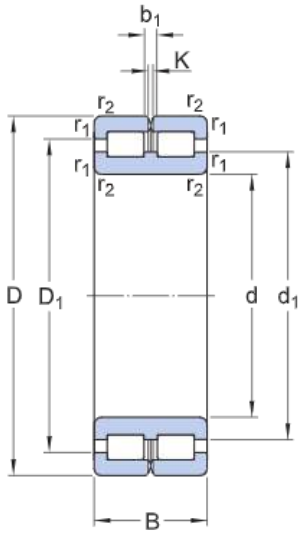
Basic dynamic load rating	913 kN
Basic static load rating	2 400 kN
Limiting speed	750 r/min
Reference speed	600 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

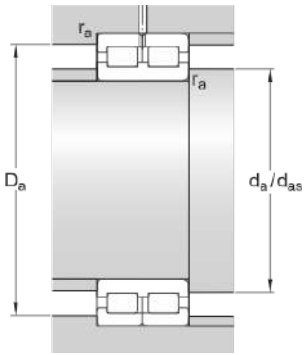
Technical Specification

Dimensions



d	340 mm	Bore diameter
D	420 mm	Outside diameter
B	80 mm	Width
d_1	≈ 368.5 mm	Shoulder diameter inner ring
D_1	≈ 389.7 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)

Abutment dimensions



d_a	min. 551 mm	Abutment diameter shaft
d_{as}	360 mm	Abutment diameter shaft
D_a	max. 410 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	913 kN
Basic static load rating	C_0	2 400 kN
Fatigue load limit	P_u	216 kN
Reference speed		600 r/min
Limiting speed		750 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	25.5 kg

NNC 4912 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	60 mm
Outside diameter	85 mm
Width	25 mm

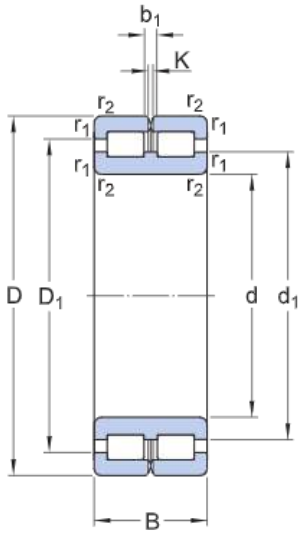
Performance

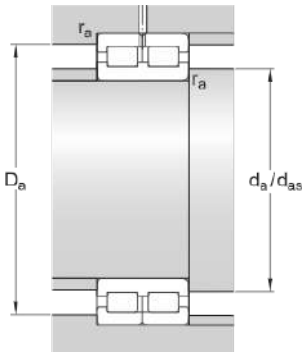
Basic dynamic load rating	78.1 kN
Basic static load rating	137 kN
Limiting speed	4 500 r/min
Reference speed	3 600 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	60 mm	Bore diameter
D	85 mm	Outside diameter
B	25 mm	Width
d_1	≈ 70.5 mm	Shoulder diameter inner ring
D_1	≈ 73.5 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 64.7 mm	Abutment diameter shaft
d_{as}	67.6 mm	Abutment diameter shaft
D_a	max. 80.5 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	78.1 kN
Basic static load rating	C_0	137 kN
Fatigue load limit	P_u	14.3 kN
Reference speed		3 600 r/min
Limiting speed		4 500 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.49 kg

NNC 4914 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	100 mm
Width	30 mm

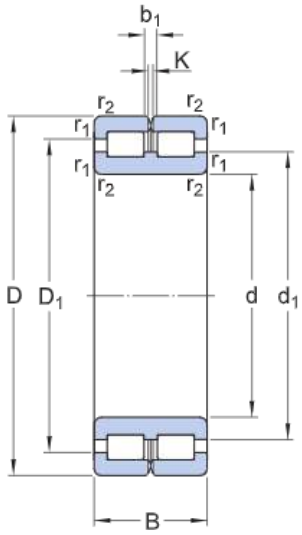
Performance

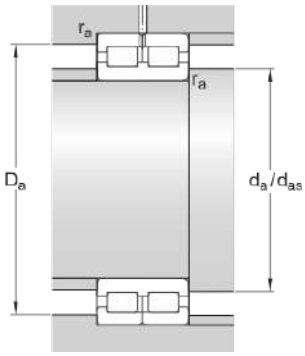
Basic dynamic load rating	114 kN
Basic static load rating	193 kN
Limiting speed	3 800 r/min
Reference speed	3 000 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	70 mm	Bore diameter
D	100 mm	Outside diameter
B	30 mm	Width
d_1	≈ 83 mm	Shoulder diameter inner ring
D_1	≈ 87 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 75.2 mm	Abutment diameter shaft
d_{as}	79 mm	Abutment diameter shaft
D_a	max. 95 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	193 kN
Fatigue load limit	P_u	22.4 kN
Reference speed		3 000 r/min
Limiting speed		3 800 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.78 kg

NNC 4916 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	110 mm
Width	30 mm

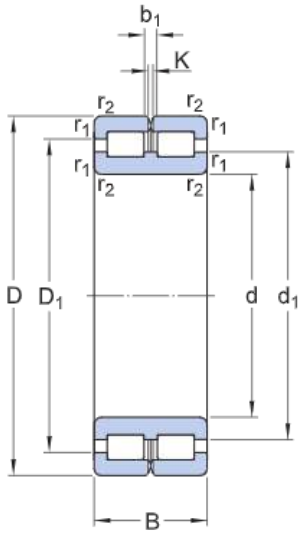
Performance

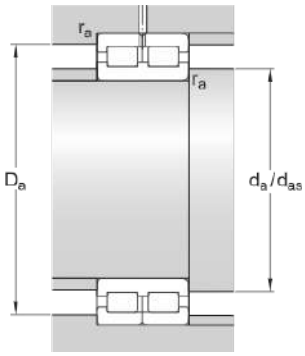
Basic dynamic load rating	121 kN
Basic static load rating	216 kN
Limiting speed	3 400 r/min
Reference speed	2 600 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	80 mm	Bore diameter
D	110 mm	Outside diameter
B	30 mm	Width
d_1	≈ 92 mm	Shoulder diameter inner ring
D_1	≈ 96 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 84.8 mm	Abutment diameter shaft
d_{as}	88 mm	Abutment diameter shaft
D_a	max. 105.3 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	121 kN
Basic static load rating	C_0	216 kN
Fatigue load limit	P_u	25 kN
Reference speed		2 600 r/min
Limiting speed		3 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.88 kg

NNC 4916 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	110 mm
Width	30 mm

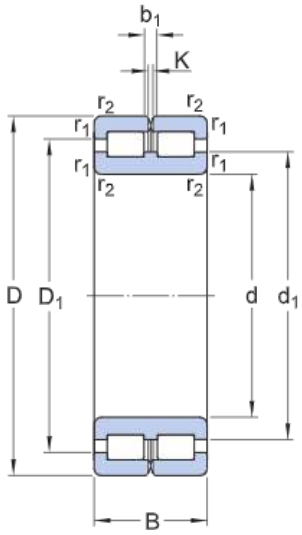
Performance

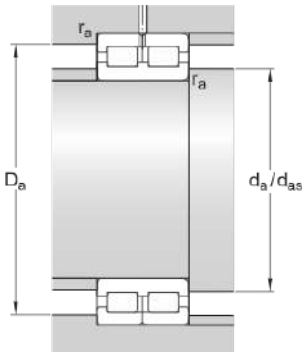
Basic dynamic load rating	121 kN
Basic static load rating	216 kN
Limiting speed	3 400 r/min
Reference speed	2 600 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	80 mm	Bore diameter
D	110 mm	Outside diameter
B	30 mm	Width
d_1	≈ 92 mm	Shoulder diameter inner ring
D_1	≈ 96 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 84.8 mm	Abutment diameter shaft
d_{as}	88 mm	Abutment diameter shaft
D_a	max. 105.3 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	121 kN
Basic static load rating	C_0	216 kN
Fatigue load limit	P_u	25 kN
Reference speed		2 600 r/min
Limiting speed		3 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.88 kg

NNC 4918 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	90 mm
Outside diameter	125 mm
Width	35 mm

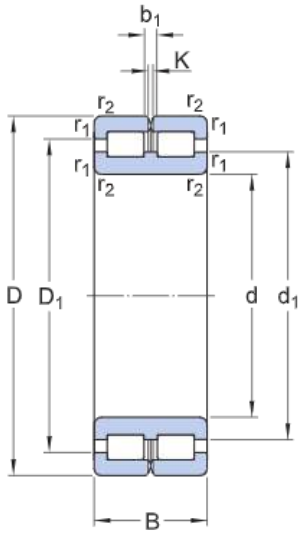
Performance

Basic dynamic load rating	161 kN
Basic static load rating	300 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min

Properties

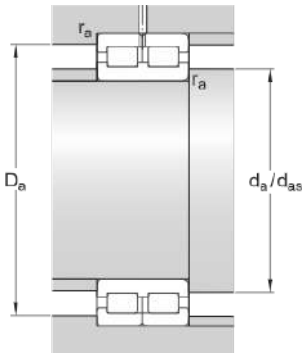
Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	90 mm	Bore diameter
D	125 mm	Outside diameter
B	35 mm	Width
d_1	≈ 103 mm	Shoulder diameter inner ring
D_1	≈ 110 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 95.4 mm	Abutment diameter shaft
d_{as}	99 mm	Abutment diameter shaft
D_a	max. 119.7 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	161 kN
Basic static load rating	C_0	300 kN
Fatigue load limit	P_u	35.5 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	1.35 kg

NNC 4920 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	140 mm
Width	40 mm

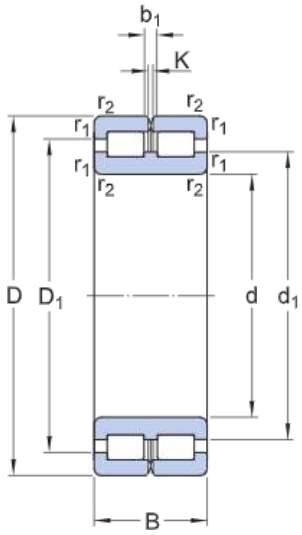
Performance

Basic dynamic load rating	209 kN
Basic static load rating	400 kN
Limiting speed	2 600 r/min
Reference speed	2 000 r/min

Properties

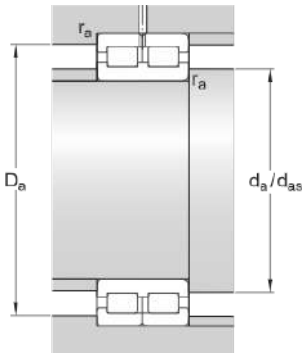
Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	100 mm	Bore diameter
D	140 mm	Outside diameter
B	40 mm	Width
d_1	≈ 116.5 mm	Shoulder diameter inner ring
D_1	≈ 124.5 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 106 mm	Abutment diameter shaft
d_{as}	111 mm	Abutment diameter shaft
D_a	max. 134 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	209 kN
Basic static load rating	C_0	400 kN
Fatigue load limit	P_u	46.5 kN
Reference speed		2 000 r/min
Limiting speed		2 600 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	1.95 kg

NNC 4922 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	150 mm
Width	40 mm

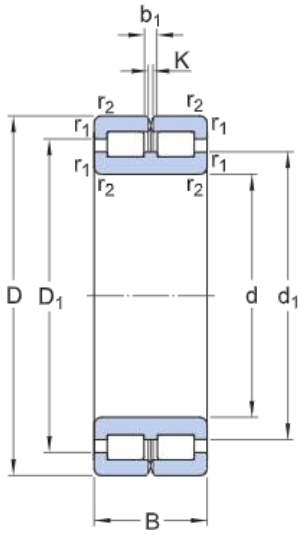
Performance

Basic dynamic load rating	220 kN
Basic static load rating	430 kN
Limiting speed	2 400 r/min
Reference speed	1 900 r/min

Properties

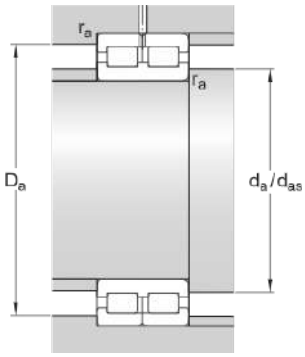
Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	110 mm	Bore diameter
D	150 mm	Outside diameter
B	40 mm	Width
d_1	≈ 125 mm	Shoulder diameter inner ring
D_1	≈ 133.5 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 116 mm	Abutment diameter shaft
d_{as}	121 mm	Abutment diameter shaft
D_a	max. 144 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	220 kN
Basic static load rating	C_0	430 kN
Fatigue load limit	P_u	49 kN
Reference speed		1 900 r/min
Limiting speed		2 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	2.15 kg

NNC 4924 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	165 mm
Width	45 mm

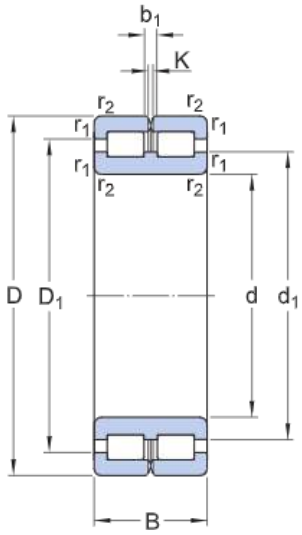
Performance

Basic dynamic load rating	242 kN
Basic static load rating	480 kN
Limiting speed	2 200 r/min
Reference speed	1 700 r/min

Properties

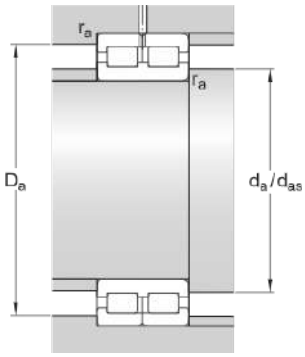
Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	165 mm	Outside diameter
B	45 mm	Width
d_1	≈ 139 mm	Shoulder diameter inner ring
D_1	≈ 148 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 126 mm	Abutment diameter shaft
d_{as}	133 mm	Abutment diameter shaft
D_a	max. 159 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	242 kN
Basic static load rating	C_0	480 kN
Fatigue load limit	P_u	53 kN
Reference speed		1 700 r/min
Limiting speed		2 200 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	2.95 kg

NNC 4926 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	180 mm
Width	50 mm

Performance

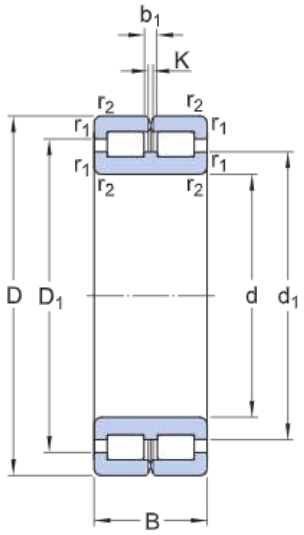
Basic dynamic load rating	297 kN
Basic static load rating	530 kN
Limiting speed	2 000 r/min
Reference speed	1 600 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

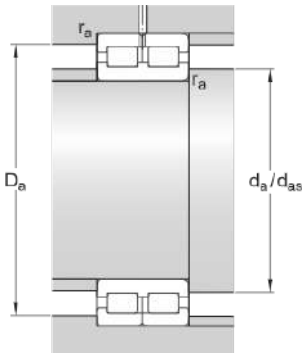
Technical Specification

Dimensions



d	130 mm	Bore diameter
D	180 mm	Outside diameter
B	50 mm	Width
d_1	≈ 149.5 mm	Shoulder diameter inner ring
D_1	≈ 159.6 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)

Abutment dimensions



d_a	min. 138 mm	Abutment diameter shaft
d_{as}	144 mm	Abutment diameter shaft
D_a	max. 173 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	297 kN
Basic static load rating	C_0	530 kN
Fatigue load limit	P_u	60 kN
Reference speed		1 600 r/min
Limiting speed		2 000 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	3.95 kg

NNC 4928 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	190 mm
Width	50 mm

Performance

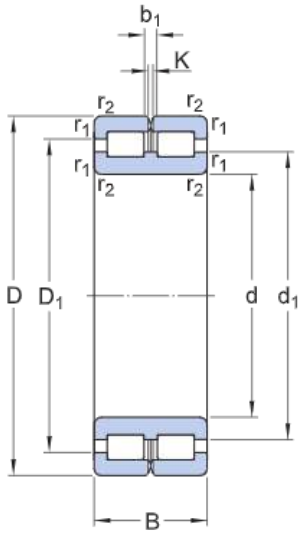
Basic dynamic load rating	308 kN
Basic static load rating	570 kN
Limiting speed	1 900 r/min
Reference speed	1 500 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

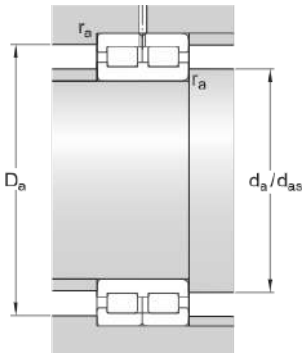
Technical Specification

Dimensions



d	140 mm	Bore diameter
D	190 mm	Outside diameter
B	50 mm	Width
d_1	≈ 160 mm	Shoulder diameter inner ring
D_1	≈ 170 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)

Abutment dimensions



d_a	min. 148 mm	Abutment diameter shaft
d_{as}	154 mm	Abutment diameter shaft
D_a	max. 182 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	308 kN
Basic static load rating	C_0	570 kN
Fatigue load limit	P_u	63 kN
Reference speed		1 500 r/min
Limiting speed		1 900 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	4.2 kg

NNC 4930 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	210 mm
Width	60 mm

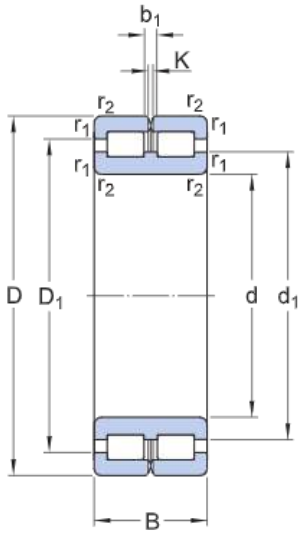
Performance

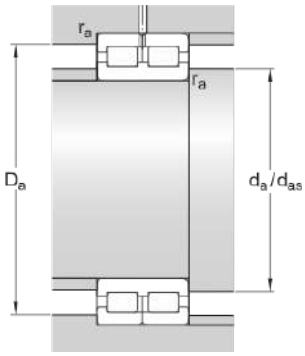
Basic dynamic load rating	429 kN
Basic static load rating	830 kN
Limiting speed	1 700 r/min
Reference speed	1 400 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	150 mm	Bore diameter
D	210 mm	Outside diameter
B	60 mm	Width
d_1	≈ 171.5 mm	Shoulder diameter inner ring
D_1	≈ 186.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 159 mm	Abutment diameter shaft
d_{as}	165 mm	Abutment diameter shaft
D_a	max. 201 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	429 kN
Basic static load rating	C_0	830 kN
Fatigue load limit	P_u	91.5 kN
Reference speed		1 400 r/min
Limiting speed		1 700 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	6.65 kg

NNC 4932 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	220 mm
Width	60 mm

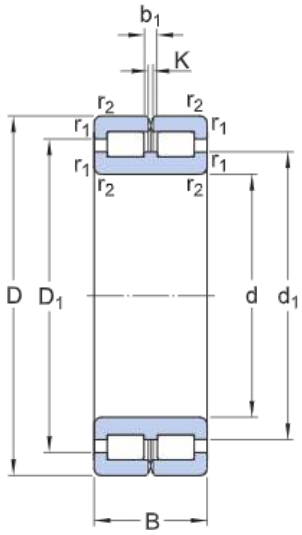
Performance

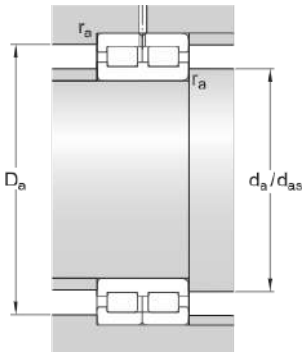
Basic dynamic load rating	446 kN
Basic static load rating	915 kN
Limiting speed	1 600 r/min
Reference speed	1 300 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	160 mm	Bore diameter
D	220 mm	Outside diameter
B	60 mm	Width
d_1	≈ 185 mm	Shoulder diameter inner ring
D_1	≈ 200 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 170 mm	Abutment diameter shaft
d_{as}	177 mm	Abutment diameter shaft
D_a	max. 211 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	446 kN
Basic static load rating	C_0	915 kN
Fatigue load limit	P_u	96.5 kN
Reference speed		1 300 r/min
Limiting speed		1 600 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	7 kg

NNC 4934 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	230 mm
Width	60 mm

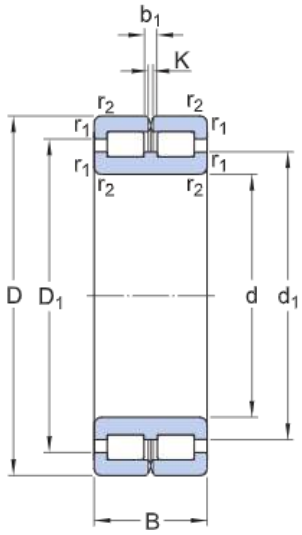
Performance

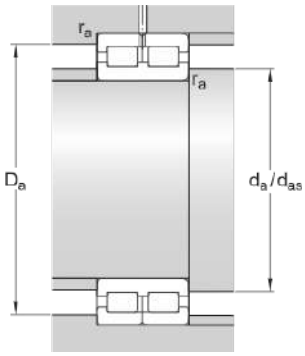
Basic dynamic load rating	457 kN
Basic static load rating	950 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	170 mm	Bore diameter
D	230 mm	Outside diameter
B	60 mm	Width
d_1	≈ 194 mm	Shoulder diameter inner ring
D_1	≈ 208.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 180 mm	Abutment diameter shaft
d_{as}	187 mm	Abutment diameter shaft
D_a	max. 220 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	457 kN
Basic static load rating	C_0	950 kN
Fatigue load limit	P_u	100 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	7.35 kg

NNC 4936 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	250 mm
Width	69 mm

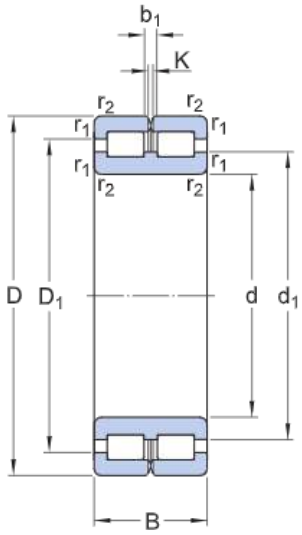
Performance

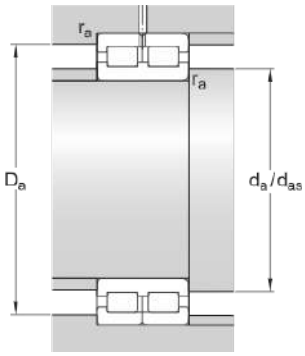
Basic dynamic load rating	594 kN
Basic static load rating	1 220 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	180 mm	Bore diameter
D	250 mm	Outside diameter
B	69 mm	Width
d_1	≈ 206 mm	Shoulder diameter inner ring
D_1	≈ 223.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 190 mm	Abutment diameter shaft
d_{as}	198 mm	Abutment diameter shaft
D_a	max. 240 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	594 kN
Basic static load rating	C_0	1 220 kN
Fatigue load limit	P_u	127 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	10.8 kg

NNC 4938 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	260 mm
Width	69 mm

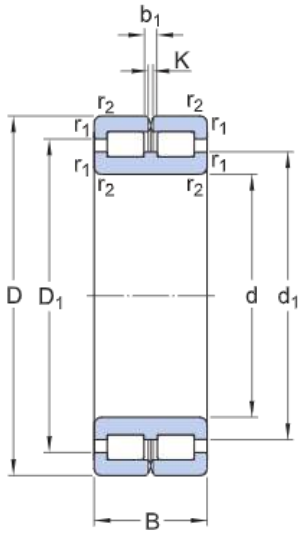
Performance

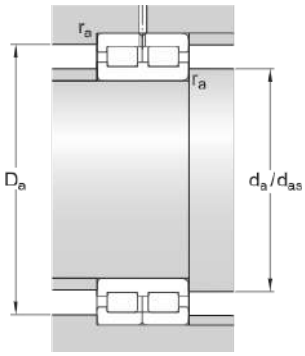
Basic dynamic load rating	605 kN
Basic static load rating	1 290 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	190 mm	Bore diameter
D	260 mm	Outside diameter
B	69 mm	Width
d_1	≈ 216 mm	Shoulder diameter inner ring
D_1	≈ 233 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 201 mm	Abutment diameter shaft
d_{as}	208 mm	Abutment diameter shaft
D_a	max. 250 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	605 kN
Basic static load rating	C_0	1 290 kN
Fatigue load limit	P_u	132 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	11.2 kg

NNC 4940 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	280 mm
Width	80 mm

Performance

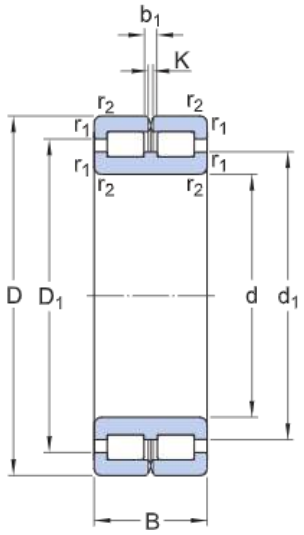
Basic dynamic load rating	704 kN
Basic static load rating	1 500 kN
Limiting speed	1 300 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

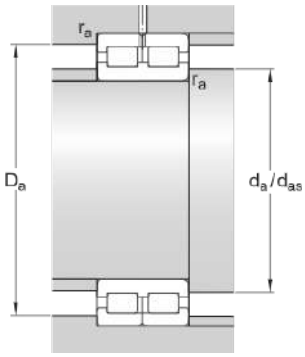
Technical Specification

Dimensions



d	200 mm	Bore diameter
D	280 mm	Outside diameter
B	80 mm	Width
d_1	≈ 233 mm	Shoulder diameter inner ring
D_1	≈ 251.5 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)

Abutment dimensions



d_a	min. 211 mm	Abutment diameter shaft
d_{as}	221 mm	Abutment diameter shaft
D_a	max. 269 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	704 kN
Basic static load rating	C_0	1 500 kN
Fatigue load limit	P_u	153 kN
Reference speed		1 000 r/min
Limiting speed		1 300 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	15.8 kg

NNC 4944 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	300 mm
Width	80 mm

Performance

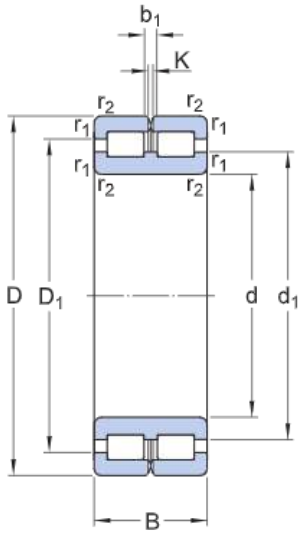
Basic dynamic load rating	737 kN
Basic static load rating	1 600 kN
Limiting speed	1 200 r/min
Reference speed	950 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

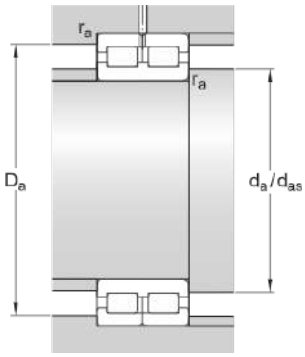
Technical Specification

Dimensions



d	220 mm	Bore diameter
D	300 mm	Outside diameter
B	80 mm	Width
d_1	≈ 248 mm	Shoulder diameter inner ring
D_1	≈ 268.5 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)

Abutment dimensions



d_a	min. 232 mm	Abutment diameter shaft
d_{as}	240 mm	Abutment diameter shaft
D_a	max. 288 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	737 kN
Basic static load rating	C_0	1 600 kN
Fatigue load limit	P_u	160 kN
Reference speed		950 r/min
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	17.2 kg

NNC 4960 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	420 mm
Width	118 mm

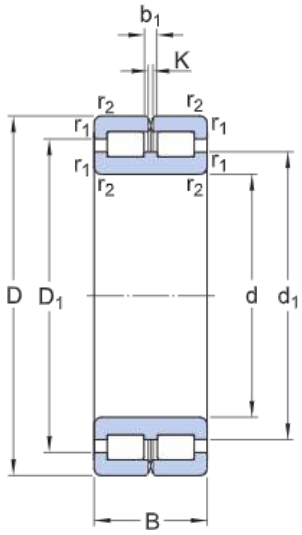
Performance

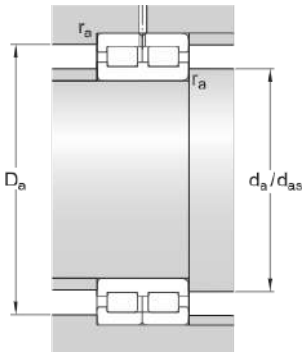
Basic dynamic load rating	1 680 kN
Basic static load rating	3 750 kN
Limiting speed	800 r/min
Reference speed	670 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification





Dimensions

d	300 mm	Bore diameter
D	420 mm	Outside diameter
B	118 mm	Width
d_1	≈ 341 mm	Shoulder diameter inner ring
D_1	≈ 374 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 3 mm	Chamfer dimension (open bearings)

Abutment dimensions

d_a	min. 315 mm	Abutment diameter shaft
d_{as}	328 mm	Abutment diameter shaft
D_a	max. 406 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 680 kN
Basic static load rating	C_0	3 750 kN
Fatigue load limit	P_u	355 kN
Reference speed		670 r/min
Limiting speed		800 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	53 kg

NNCF 4830 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	190 mm
Width	40 mm

Performance

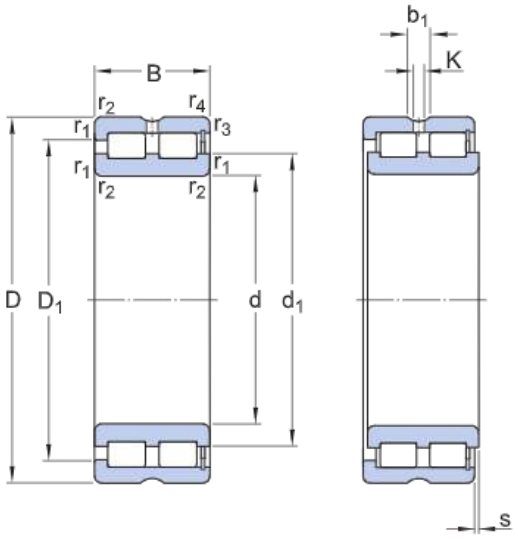
Basic dynamic load rating	255 kN
Basic static load rating	585 kN
Limiting speed	1 800 r/min
Reference speed	1 500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

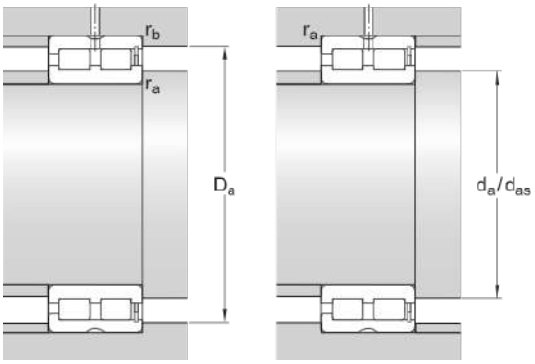
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	150 mm	Bore diameter
D	190 mm	Outside diameter
B	40 mm	Width
d_1	≈ 166 mm	Shoulder diameter inner ring
D_1	≈ 173 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 156 mm	Abutment diameter shaft
d_{as}	161 mm	Abutment diameter shaft
D_a	max. 184 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	255 kN
Basic static load rating	C_0	585 kN
Fatigue load limit	P_u	60 kN
Reference speed		1 500 r/min
Limiting speed		1 800 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	2.8 kg

NNCF 4832 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	200 mm
Width	40 mm

Performance

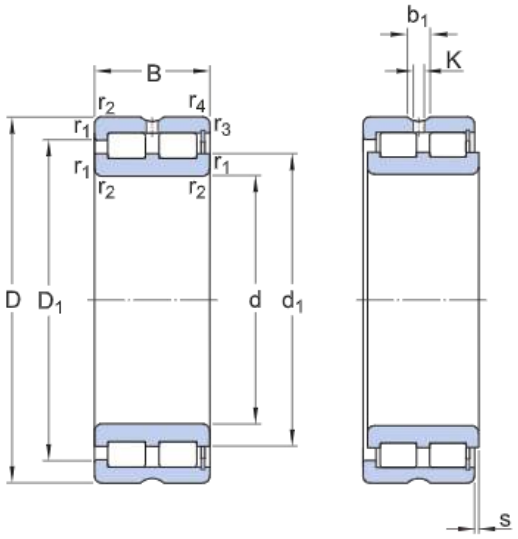
Basic dynamic load rating	260 kN
Basic static load rating	610 kN
Limiting speed	1 700 r/min
Reference speed	1 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

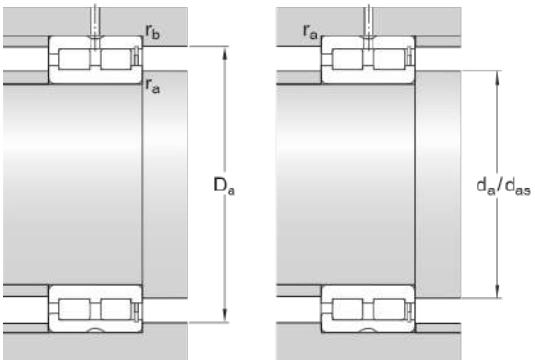
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	160 mm	Bore diameter
D	200 mm	Outside diameter
B	40 mm	Width
d_1	≈ 174 mm	Shoulder diameter inner ring
D_1	≈ 182 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 166 mm	Abutment diameter shaft
d_{as}	170 mm	Abutment diameter shaft
D_a	max. 194 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	260 kN
Basic static load rating	C_0	610 kN
Fatigue load limit	P_u	62 kN
Reference speed		1 400 r/min
Limiting speed		1 700 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	3 kg

NNCF 4834 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	215 mm
Width	45 mm

Performance

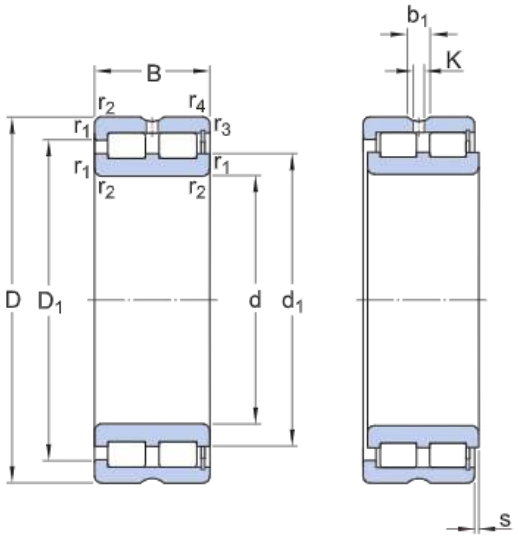
Basic dynamic load rating	286 kN
Basic static load rating	655 kN
Limiting speed	1 600 r/min
Reference speed	1 300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

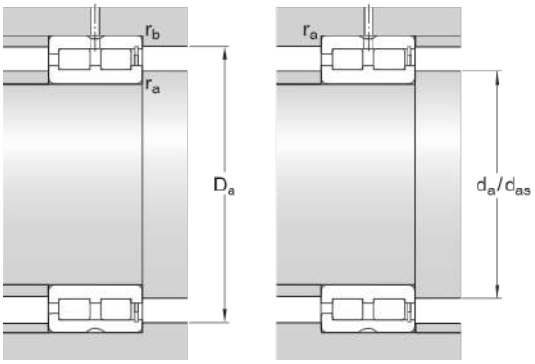
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	170 mm	Bore diameter
D	215 mm	Outside diameter
B	45 mm	Width
d_1	≈ 187 mm	Shoulder diameter inner ring
D_1	≈ 196 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 176 mm	Abutment diameter shaft
d_{as}	182 mm	Abutment diameter shaft
D_a	max. 209 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	286 kN
Basic static load rating	C_0	655 kN
Fatigue load limit	P_u	65.5 kN
Reference speed		1 300 r/min
Limiting speed		1 600 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	4 kg

NNCF 4836 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	225 mm
Width	45 mm

Performance

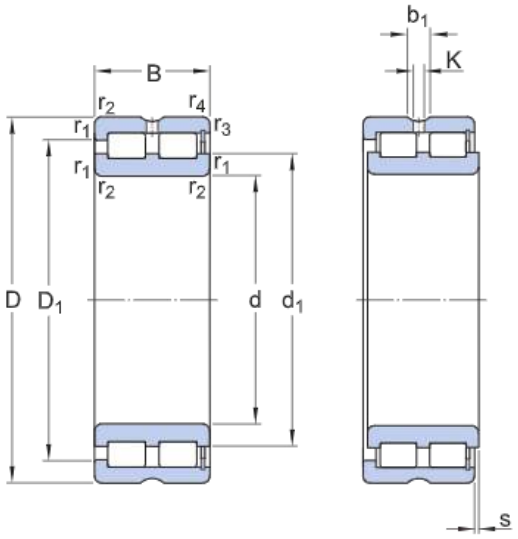
Basic dynamic load rating	297 kN
Basic static load rating	695 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

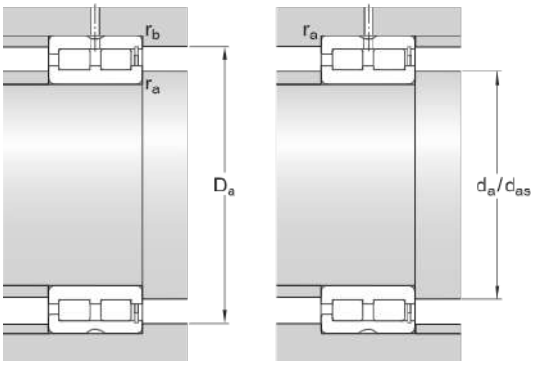
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	180 mm	Bore diameter
D	225 mm	Outside diameter
B	45 mm	Width
d_1	≈ 200 mm	Shoulder diameter inner ring
D_1	≈ 208.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 186 mm	Abutment diameter shaft
d_{as}	193 mm	Abutment diameter shaft
D_a	max. 219 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	297 kN
Basic static load rating	C_0	695 kN
Fatigue load limit	P_u	69.5 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	4.2 kg

NNCF 4838 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	240 mm
Width	50 mm

Performance

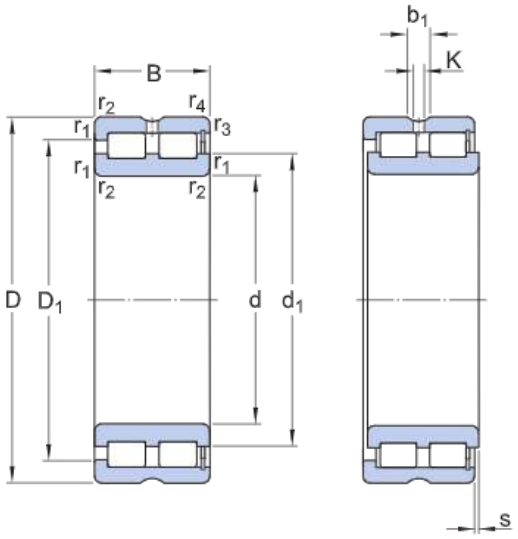
Basic dynamic load rating	358 kN
Basic static load rating	750 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

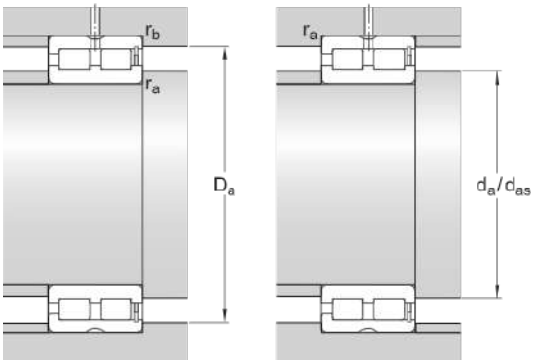
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	190 mm	Bore diameter
D	240 mm	Outside diameter
B	50 mm	Width
d_1	≈ 209 mm	Shoulder diameter inner ring
D_1	≈ 219 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 197 mm	Abutment diameter shaft
d_{as}	203 mm	Abutment diameter shaft
D_a	max. 233 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	358 kN
Basic static load rating	C_0	750 kN
Fatigue load limit	P_u	76.5 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	5.5 kg

NNCF 4840 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	250 mm
Width	50 mm

Performance

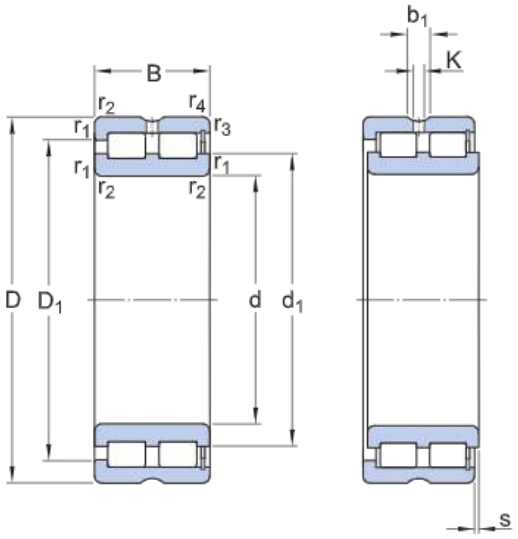
Basic dynamic load rating	369 kN
Basic static load rating	800 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

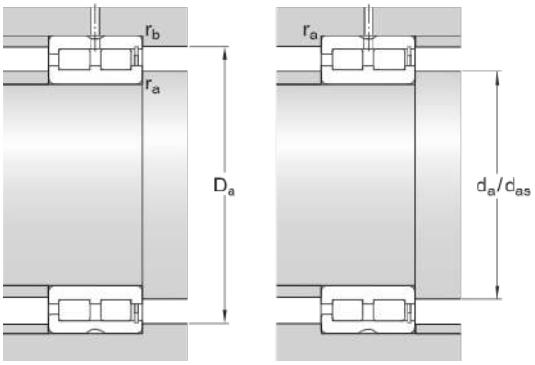
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	200 mm	Bore diameter
D	250 mm	Outside diameter
B	50 mm	Width
d_1	≈ 220 mm	Shoulder diameter inner ring
D_1	≈ 229.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 207 mm	Abutment diameter shaft
d_{as}	213 mm	Abutment diameter shaft
D_a	max. 243 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	369 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	80 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	5.8 kg

NNCF 4844 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	270 mm
Width	50 mm

Performance

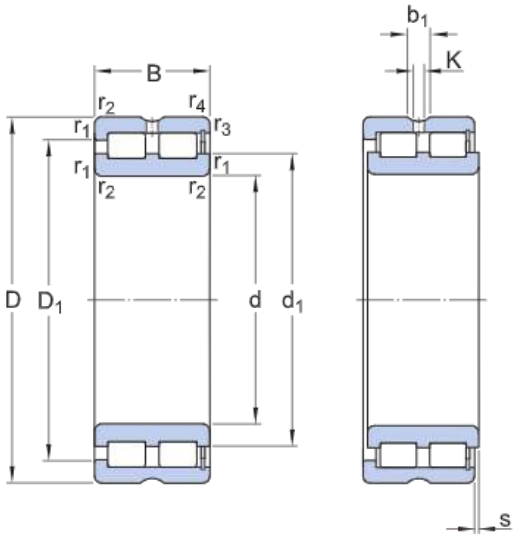
Basic dynamic load rating	380 kN
Basic static load rating	865 kN
Limiting speed	1 200 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

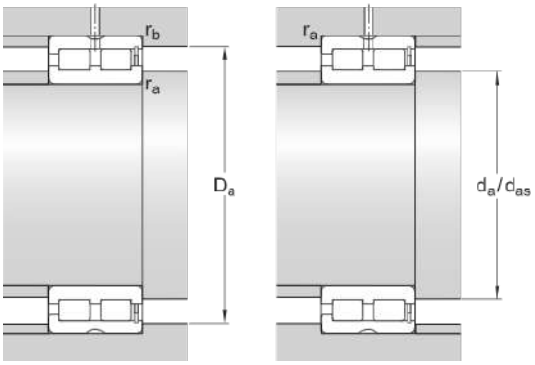
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	220 mm	Bore diameter
D	270 mm	Outside diameter
B	50 mm	Width
d_1	≈ 241 mm	Shoulder diameter inner ring
D_1	≈ 250.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 227 mm	Abutment diameter shaft
d_{as}	233 mm	Abutment diameter shaft
D_a	max. 263 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	380 kN
Basic static load rating	C_0	865 kN
Fatigue load limit	P_u	85 kN
Reference speed		1 000 r/min
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	6.3 kg

NNCF 4848 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	300 mm
Width	60 mm

Performance

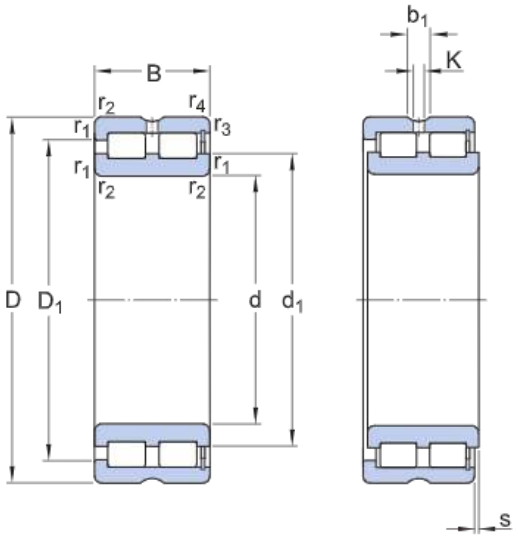
Basic dynamic load rating	539 kN
Basic static load rating	1 290 kN
Limiting speed	1 100 r/min
Reference speed	900 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

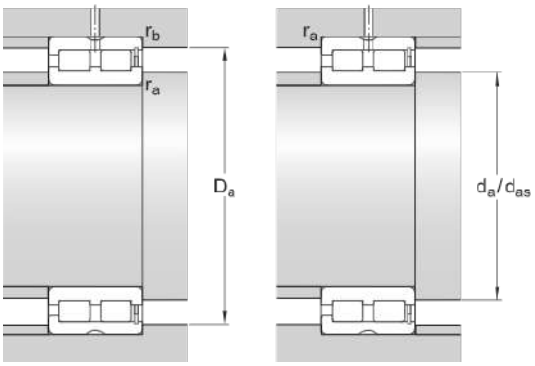
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	240 mm	Bore diameter
D	300 mm	Outside diameter
B	60 mm	Width
d_1	≈ 261 mm	Shoulder diameter inner ring
D_1	≈ 275 mm	Shoulder diameter outer ring
b_1	30 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 249 mm	Abutment diameter shaft
d_{as}	254 mm	Abutment diameter shaft
D_a	max. 292 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	539 kN
Basic static load rating	C_0	1 290 kN
Fatigue load limit	P_u	125 kN
Reference speed		900 r/min
Limiting speed		1 100 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	9.64 kg

NNCF 4852 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	320 mm
Width	60 mm

Performance

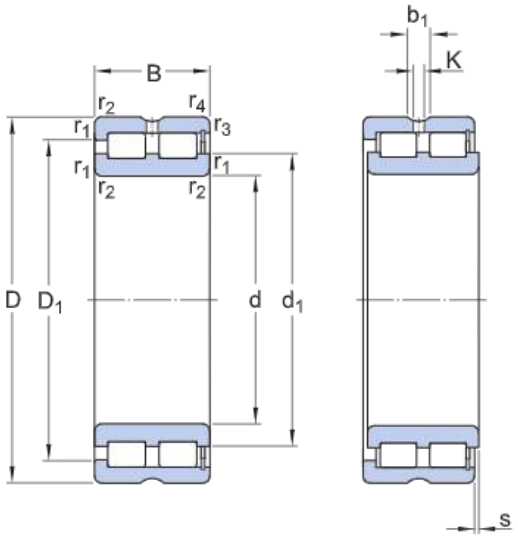
Basic dynamic load rating	561 kN
Basic static load rating	1 400 kN
Limiting speed	1 000 r/min
Reference speed	800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

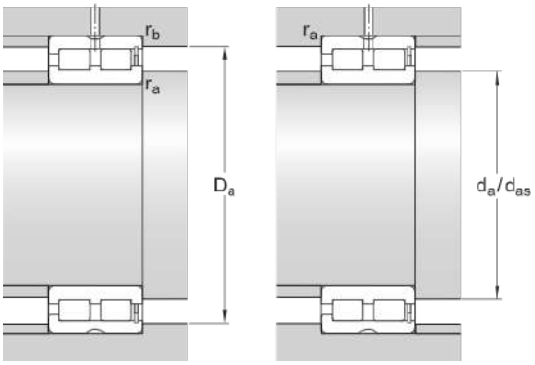
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	260 mm	Bore diameter
D	320 mm	Outside diameter
B	60 mm	Width
d_1	≈ 283.5 mm	Shoulder diameter inner ring
D_1	≈ 297 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 269 mm	Abutment diameter shaft
d_{as}	276 mm	Abutment diameter shaft
D_a	max. 311 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	561 kN
Basic static load rating	C_0	1 400 kN
Fatigue load limit	P_u	132 kN
Reference speed		800 r/min
Limiting speed		1 000 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	10.8 kg

NNCF 4856 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	350 mm
Width	69 mm

Performance

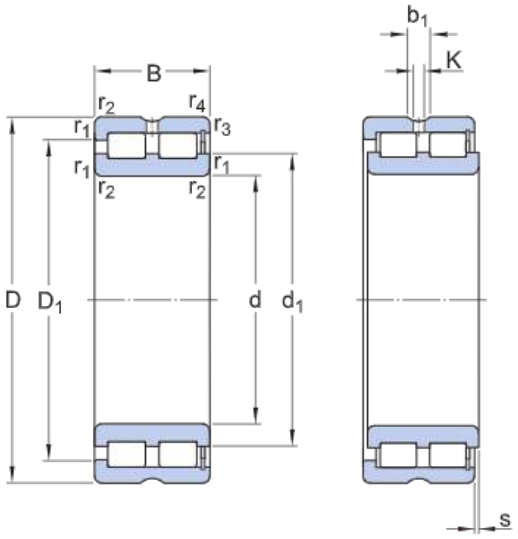
Basic dynamic load rating	737 kN
Basic static load rating	1 860 kN
Limiting speed	950 r/min
Reference speed	750 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

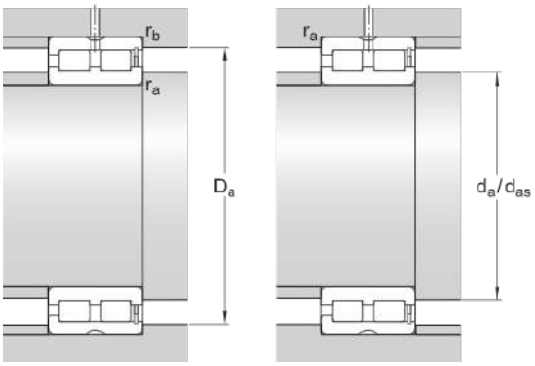
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	280 mm	Bore diameter
D	350 mm	Outside diameter
B	69 mm	Width
d_1	≈ 308 mm	Shoulder diameter inner ring
D_1	≈ 326 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 290 mm	Abutment diameter shaft
d_{as}	299 mm	Abutment diameter shaft
D_a	max. 341 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	737 kN
Basic static load rating	C_0	1 860 kN
Fatigue load limit	P_u	173 kN
Reference speed		750 r/min
Limiting speed		950 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	15.8 kg

NNCF 4860 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	380 mm
Width	80 mm

Performance

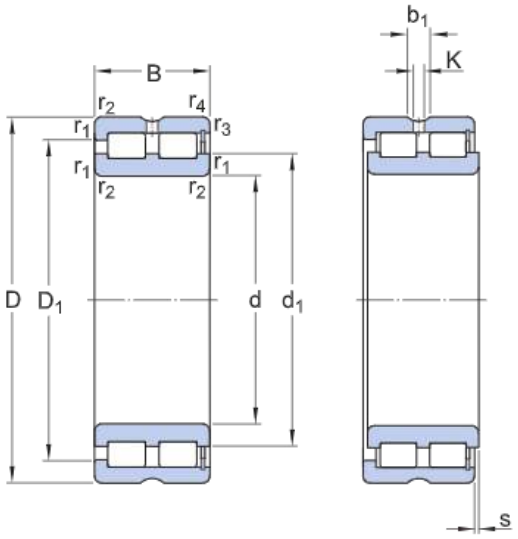
Basic dynamic load rating	858 kN
Basic static load rating	2 120 kN
Limiting speed	850 r/min
Reference speed	700 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

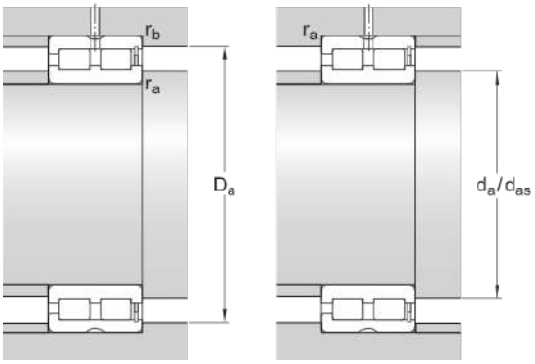
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	300 mm	Bore diameter
D	380 mm	Outside diameter
B	80 mm	Width
d_1	≈ 330 mm	Shoulder diameter inner ring
D_1	≈ 349 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 310 mm	Abutment diameter shaft
d_{as}	319 mm	Abutment diameter shaft
D_a	max. 370 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	858 kN
Basic static load rating	C_0	2 120 kN
Fatigue load limit	P_u	196 kN
Reference speed		700 r/min
Limiting speed		850 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	22.5 kg

NNCF 4864 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	400 mm
Width	80 mm

Performance

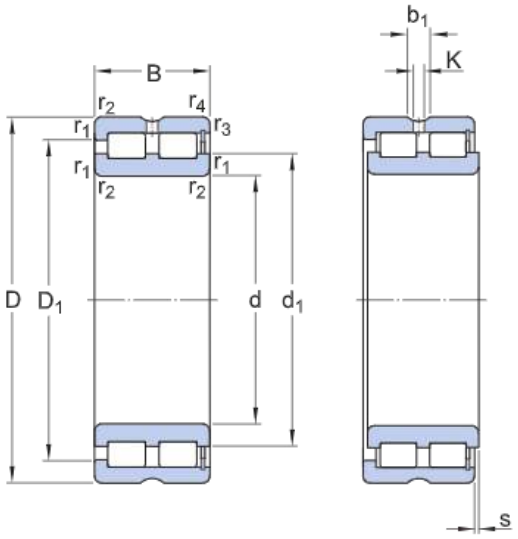
Basic dynamic load rating	897 kN
Basic static load rating	2 280 kN
Limiting speed	800 r/min
Reference speed	630 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

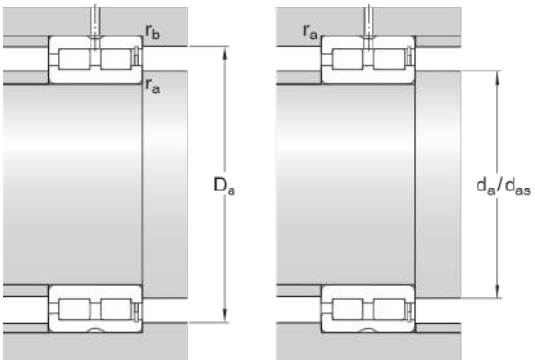
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	320 mm	Bore diameter
D	400 mm	Outside diameter
B	80 mm	Width
d_1	≈ 352 mm	Shoulder diameter inner ring
D_1	≈ 372 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 331 mm	Abutment diameter shaft
d_{as}	341 mm	Abutment diameter shaft
D_a	max. 390 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	897 kN
Basic static load rating	C_0	2 280 kN
Fatigue load limit	P_u	208 kN
Reference speed		630 r/min
Limiting speed		800 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	23.5 kg

NNCF 4868 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	420 mm
Width	80 mm

Performance

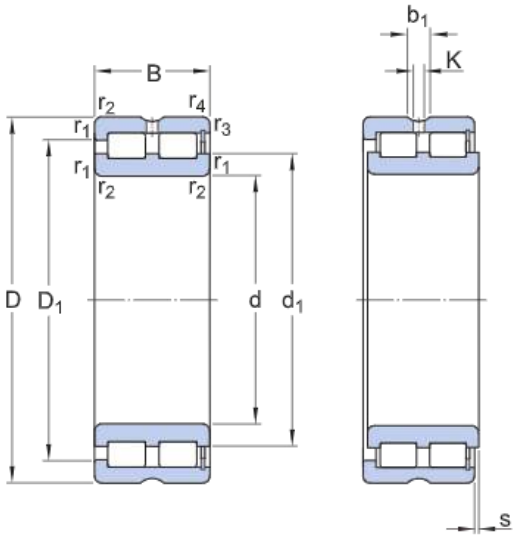
Basic dynamic load rating	913 kN
Basic static load rating	2 400 kN
Limiting speed	750 r/min
Reference speed	600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	C3

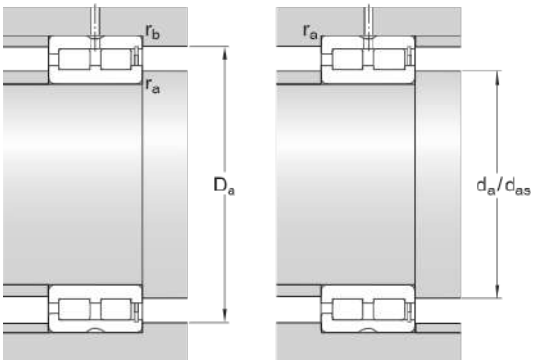
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	340 mm	Bore diameter
D	420 mm	Outside diameter
B	80 mm	Width
d_1	≈ 368 mm	Shoulder diameter inner ring
D_1	≈ 390 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 351 mm	Abutment diameter shaft
d_{as}	360 mm	Abutment diameter shaft
D_a	max. 410 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	913 kN
Basic static load rating	C_0	2 400 kN
Fatigue load limit	P_u	216 kN
Reference speed		600 r/min
Limiting speed		750 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	25 kg

NNCF 4912 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	60 mm
Outside diameter	85 mm
Width	25 mm

Performance

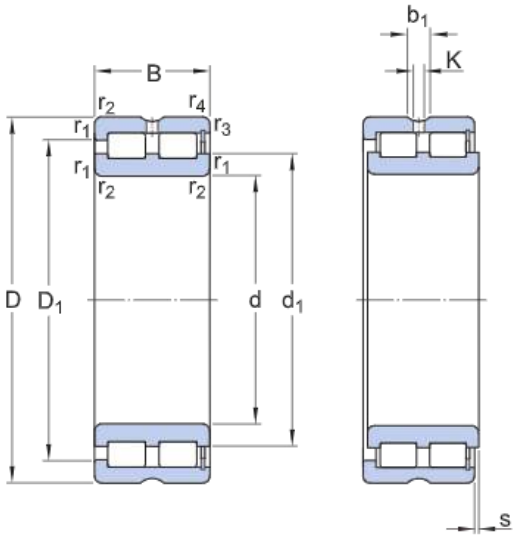
Basic dynamic load rating	78.1 kN
Basic static load rating	137 kN
Limiting speed	4 500 r/min
Reference speed	3 600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

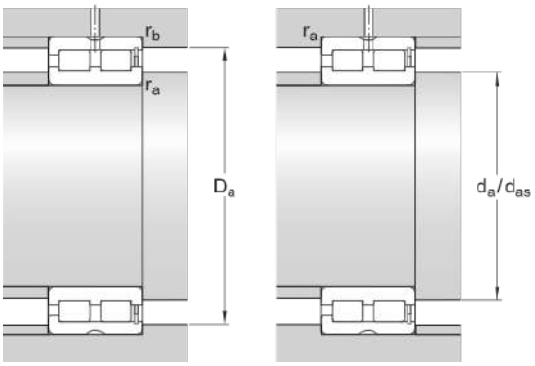
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	60 mm	Bore diameter
D	85 mm	Outside diameter
B	25 mm	Width
d_1	≈ 70.5 mm	Shoulder diameter inner ring
D_1	≈ 73.5 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 64.7 mm	Abutment diameter shaft
d_{as}	67.6 mm	Abutment diameter shaft
D_a	max. 80.5 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	78.1 kN
Basic static load rating	C_0	137 kN
Fatigue load limit	P_u	14.3 kN
Reference speed		3 600 r/min
Limiting speed		4 500 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.48 kg

NNCF 4914 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	100 mm
Width	30 mm

Performance

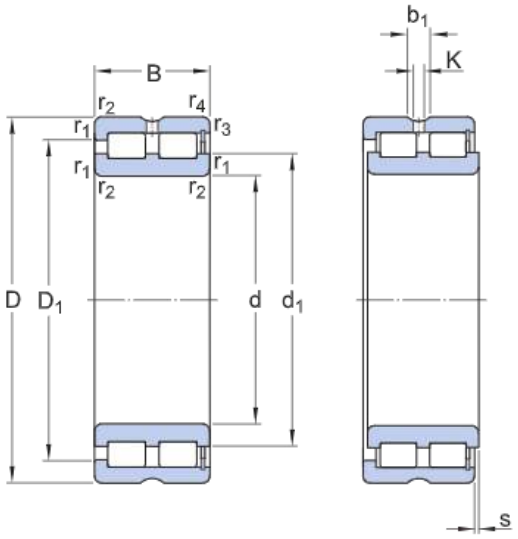
Basic dynamic load rating	114 kN
Basic static load rating	193 kN
Limiting speed	3 800 r/min
Reference speed	3 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

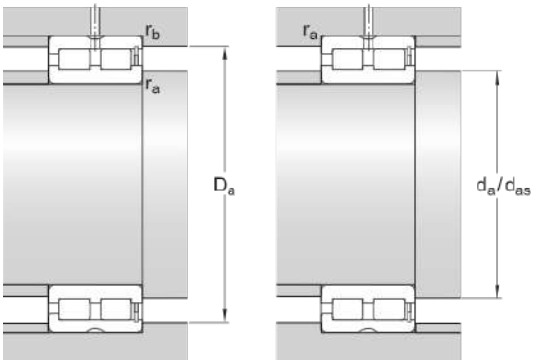
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	70 mm	Bore diameter
D	100 mm	Outside diameter
B	30 mm	Width
d_1	≈ 83 mm	Shoulder diameter inner ring
D_1	≈ 87 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 75.2 mm	Abutment diameter shaft
d_{as}	79 mm	Abutment diameter shaft
D_a	max. 95 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	193 kN
Fatigue load limit	P_u	22.4 kN
Reference speed		3 000 r/min
Limiting speed		3 800 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.77 kg

NNCF 4916 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	110 mm
Width	30 mm

Performance

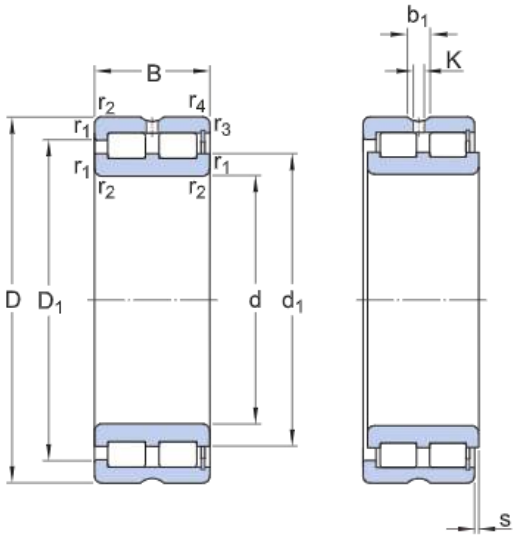
Basic dynamic load rating	121 kN
Basic static load rating	216 kN
Limiting speed	3 400 r/min
Reference speed	2 600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

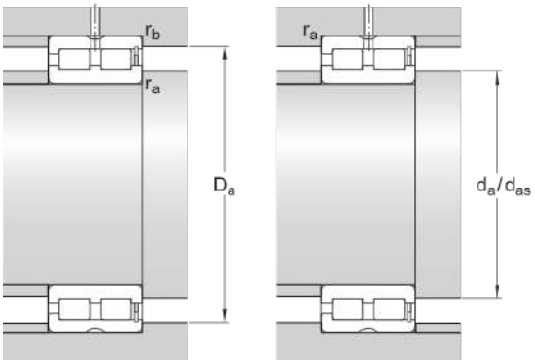
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	80 mm	Bore diameter
D	110 mm	Outside diameter
B	30 mm	Width
d_1	≈ 92 mm	Shoulder diameter inner ring
D_1	≈ 96 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 84.8 mm	Abutment diameter shaft
d_{as}	88 mm	Abutment diameter shaft
D_a	max. 105.3 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	121 kN
Basic static load rating	C_0	216 kN
Fatigue load limit	P_u	25 kN
Reference speed		2 600 r/min
Limiting speed		3 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.87 kg

NNCF 4918 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	90 mm
Outside diameter	125 mm
Width	35 mm

Performance

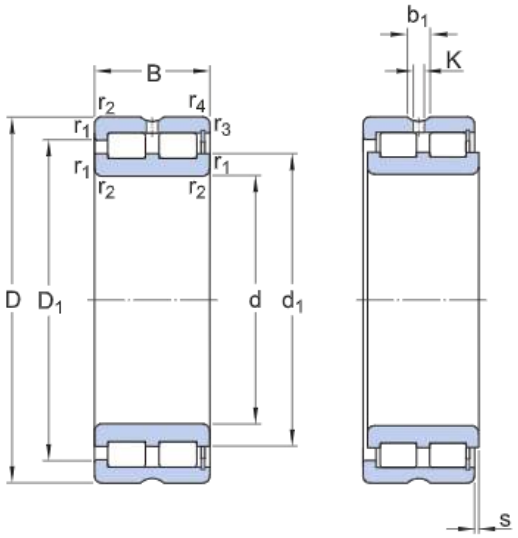
Basic dynamic load rating	161 kN
Basic static load rating	300 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

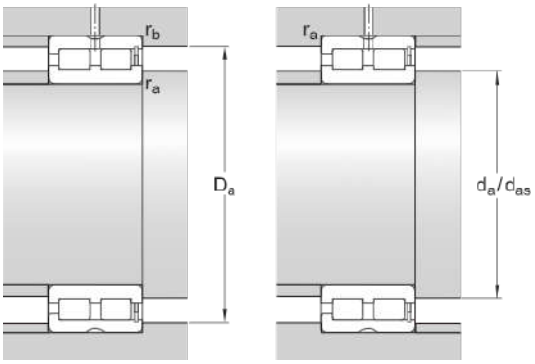
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	90 mm	Bore diameter
D	125 mm	Outside diameter
B	35 mm	Width
d_1	≈ 103 mm	Shoulder diameter inner ring
D_1	≈ 110 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 95.4 mm	Abutment diameter shaft
d_{as}	99 mm	Abutment diameter shaft
D_a	max. 119.7 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	161 kN
Basic static load rating	C_0	300 kN
Fatigue load limit	P_u	35.5 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	1.33 kg

NNCF 4920 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	140 mm
Width	40 mm

Performance

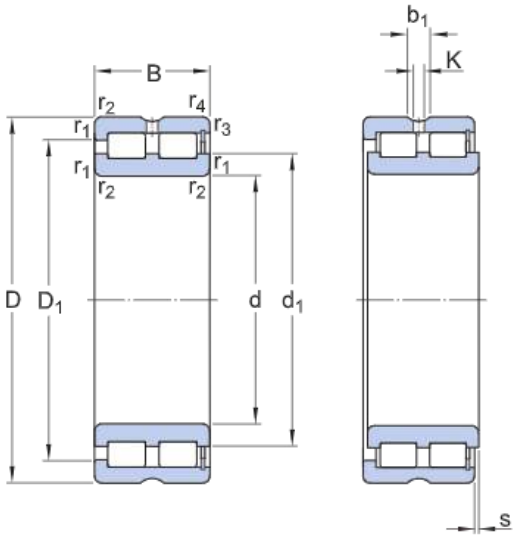
Basic dynamic load rating	209 kN
Basic static load rating	400 kN
Limiting speed	2 600 r/min
Reference speed	2 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

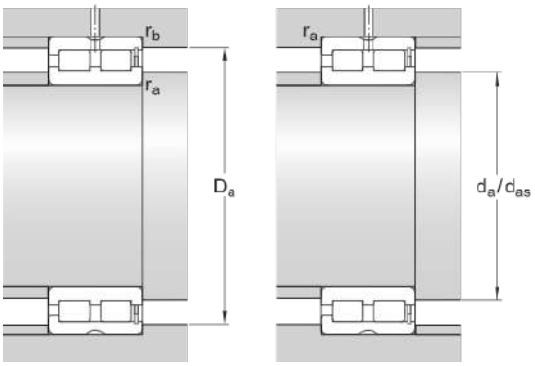
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	100 mm	Bore diameter
D	140 mm	Outside diameter
B	40 mm	Width
d_1	≈ 116.5 mm	Shoulder diameter inner ring
D_1	≈ 124.5 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 106 mm	Abutment diameter shaft
d_{as}	111 mm	Abutment diameter shaft
D_a	max. 134 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	209 kN
Basic static load rating	C_0	400 kN
Fatigue load limit	P_u	46.5 kN
Reference speed		2 000 r/min
Limiting speed		2 600 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	1.93 kg

NNCF 4922 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	150 mm
Width	40 mm

Performance

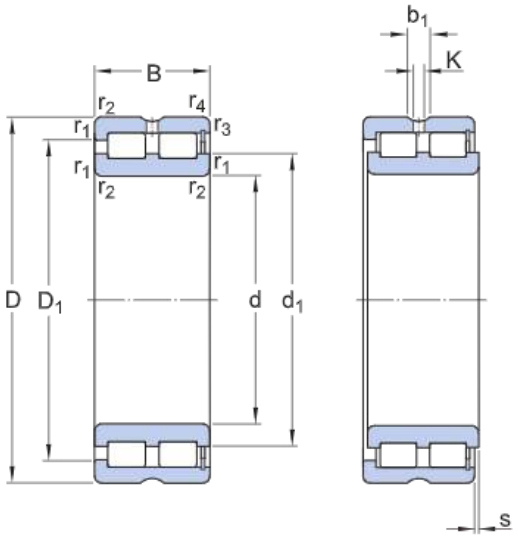
Basic dynamic load rating	220 kN
Basic static load rating	430 kN
Limiting speed	2 400 r/min
Reference speed	1 900 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

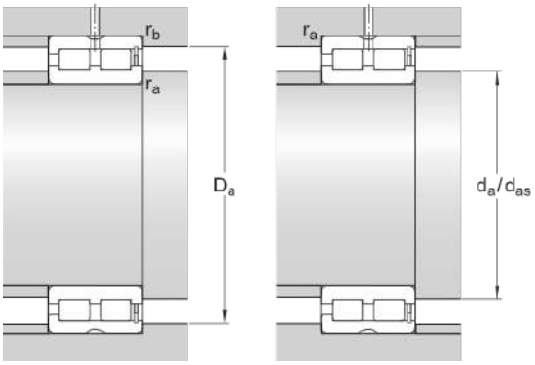
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	110 mm	Bore diameter
D	150 mm	Outside diameter
B	40 mm	Width
d_1	≈ 125 mm	Shoulder diameter inner ring
D_1	≈ 133.5 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 116 mm	Abutment diameter shaft
d_{as}	121 mm	Abutment diameter shaft
D_a	max. 144 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	220 kN
Basic static load rating	C_0	430 kN
Fatigue load limit	P_u	49 kN
Reference speed		1 900 r/min
Limiting speed		2 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	2.12 kg

NNCF 4924 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	165 mm
Width	45 mm

Performance

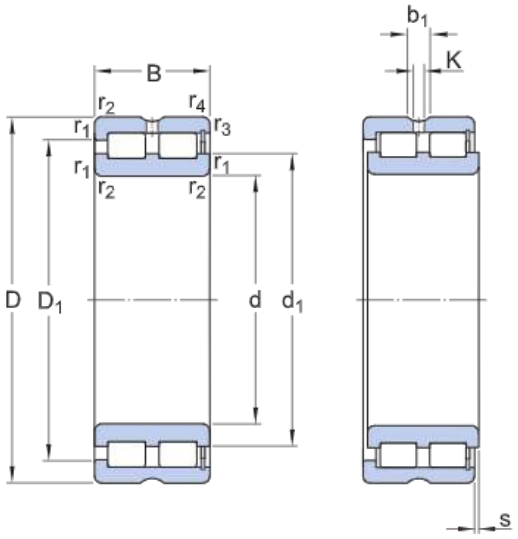
Basic dynamic load rating	242 kN
Basic static load rating	480 kN
Limiting speed	2 200 r/min
Reference speed	1 700 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

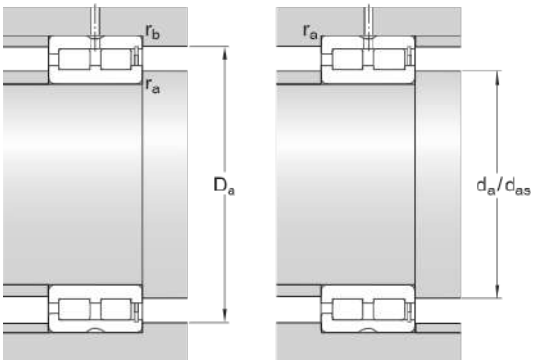
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	165 mm	Outside diameter
B	45 mm	Width
d_1	≈ 139 mm	Shoulder diameter inner ring
D_1	≈ 148 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 126 mm	Abutment diameter shaft
d_{as}	136 mm	Abutment diameter shaft
D_a	max. 159 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	242 kN
Basic static load rating	C_0	480 kN
Fatigue load limit	P_u	53 kN
Reference speed		1 700 r/min
Limiting speed		2 200 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	2.9 kg

NNCF 4926 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	180 mm
Width	50 mm

Performance

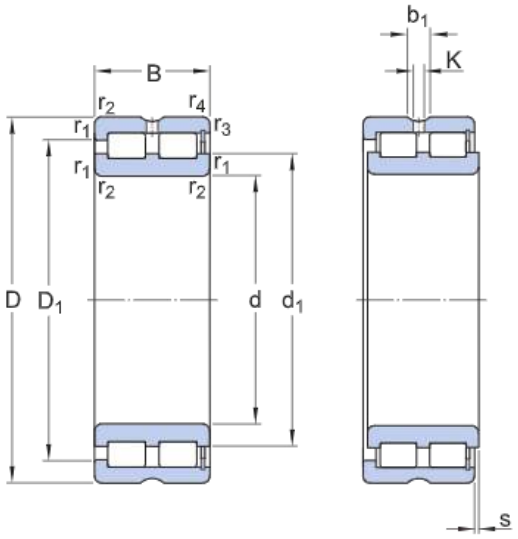
Basic dynamic load rating	297 kN
Basic static load rating	530 kN
Limiting speed	2 000 r/min
Reference speed	1 600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

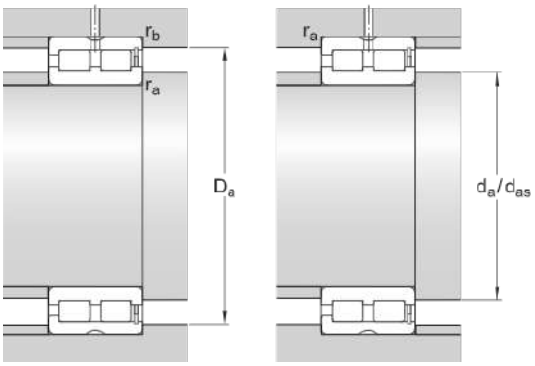
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	130 mm	Bore diameter
D	180 mm	Outside diameter
B	50 mm	Width
d_1	≈ 149.5 mm	Shoulder diameter inner ring
D_1	≈ 159.5 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 138 mm	Abutment diameter shaft
d_{as}	144 mm	Abutment diameter shaft
D_a	max. 173 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	297 kN
Basic static load rating	C_0	530 kN
Fatigue load limit	P_u	60 kN
Reference speed		1 600 r/min
Limiting speed		2 000 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	3.88 kg

NNCF 4928 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	190 mm
Width	50 mm

Performance

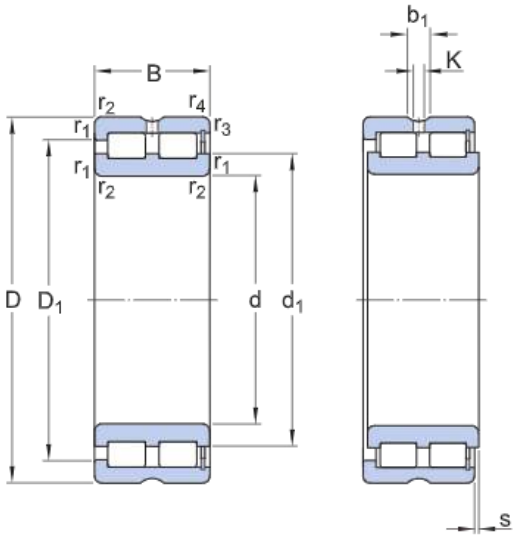
Basic dynamic load rating	308 kN
Basic static load rating	570 kN
Limiting speed	1 900 r/min
Reference speed	1 500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

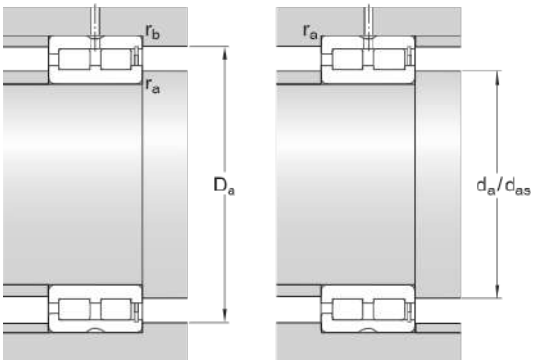
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	140 mm	Bore diameter
D	190 mm	Outside diameter
B	50 mm	Width
d_1	≈ 160 mm	Shoulder diameter inner ring
D_1	≈ 170 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 148 mm	Abutment diameter shaft
d_{as}	154 mm	Abutment diameter shaft
D_a	max. 182 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	308 kN
Basic static load rating	C_0	570 kN
Fatigue load limit	P_u	63 kN
Reference speed		1 500 r/min
Limiting speed		1 900 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	4.15 kg

NNCF 4930 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	210 mm
Width	60 mm

Performance

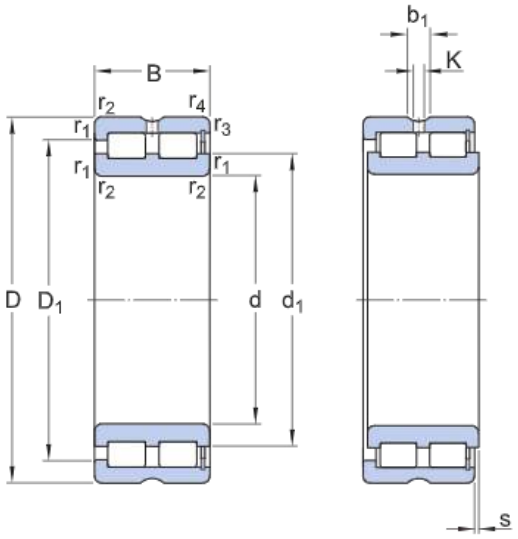
Basic dynamic load rating	429 kN
Basic static load rating	830 kN
Limiting speed	1 700 r/min
Reference speed	1 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

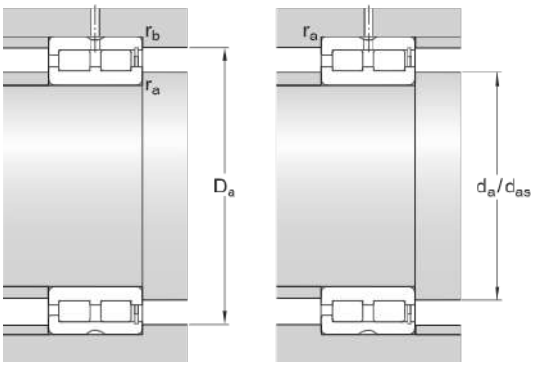
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	150 mm	Bore diameter
D	210 mm	Outside diameter
B	60 mm	Width
d_1	≈ 171.5 mm	Shoulder diameter inner ring
D_1	≈ 186.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 159 mm	Abutment diameter shaft
d_{as}	165 mm	Abutment diameter shaft
D_a	max. 201 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	429 kN
Basic static load rating	C_0	830 kN
Fatigue load limit	P_u	91.5 kN
Reference speed		1 400 r/min
Limiting speed		1 700 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	6.55 kg

NNCF 4932 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	220 mm
Width	60 mm

Performance

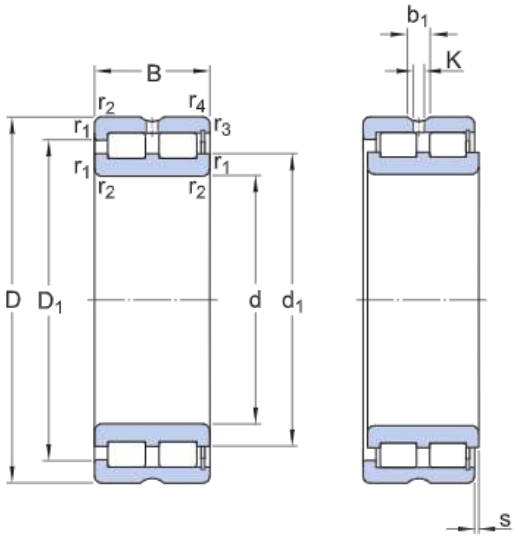
Basic dynamic load rating	446 kN
Basic static load rating	915 kN
Limiting speed	1 600 r/min
Reference speed	1 300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

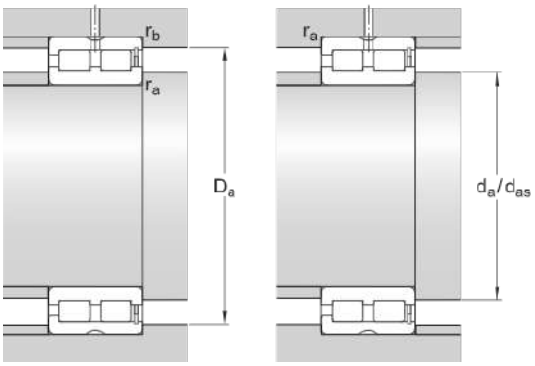
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	160 mm	Bore diameter
D	220 mm	Outside diameter
B	60 mm	Width
d_1	≈ 185 mm	Shoulder diameter inner ring
D_1	≈ 200 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 170 mm	Abutment diameter shaft
d_{as}	177 mm	Abutment diameter shaft
D_a	max. 211 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	446 kN
Basic static load rating	C_0	915 kN
Fatigue load limit	P_u	96.5 kN
Reference speed		1 300 r/min
Limiting speed		1 600 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	6.9 kg

NNCF 4934 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	230 mm
Width	60 mm

Performance

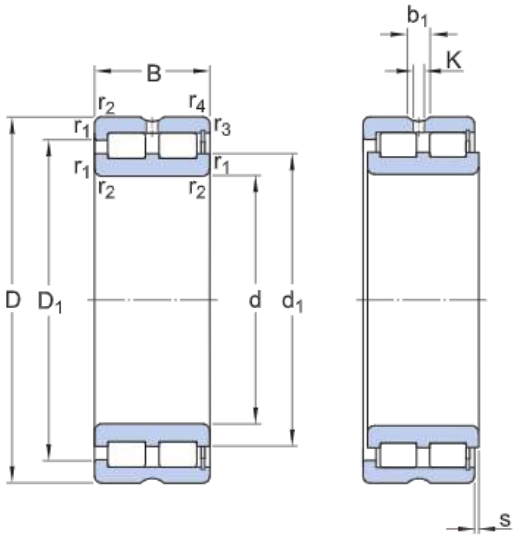
Basic dynamic load rating	457 kN
Basic static load rating	950 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

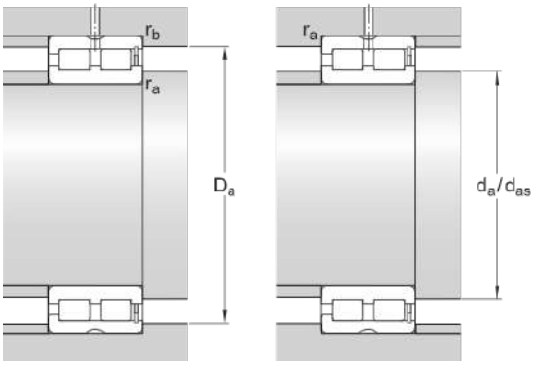
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	170 mm	Bore diameter
D	230 mm	Outside diameter
B	60 mm	Width
d_1	≈ 194 mm	Shoulder diameter inner ring
D_1	≈ 208.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 180 mm	Abutment diameter shaft
d_{as}	187 mm	Abutment diameter shaft
D_a	max. 220 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	457 kN
Basic static load rating	C_0	950 kN
Fatigue load limit	P_u	100 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	7.2 kg

NNCF 4936 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	250 mm
Width	69 mm

Performance

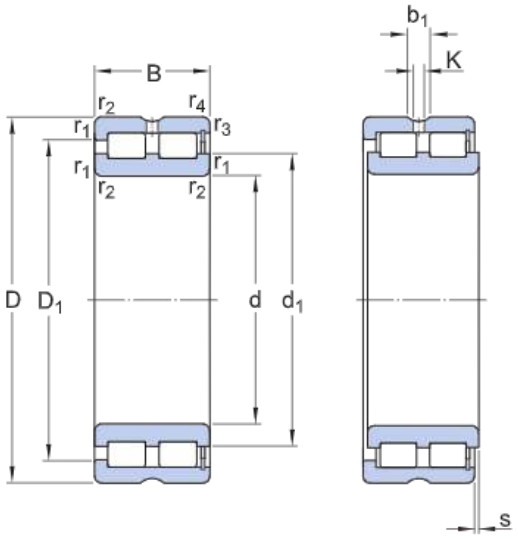
Basic dynamic load rating	594 kN
Basic static load rating	1 220 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

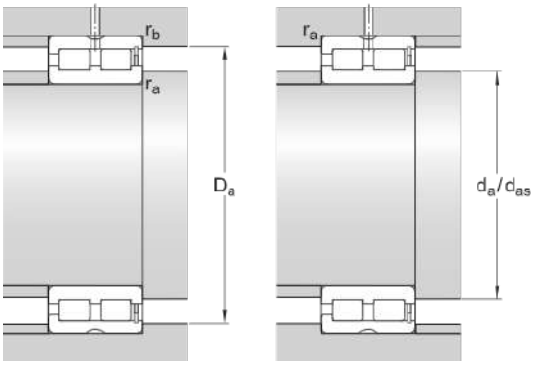
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	180 mm	Bore diameter
D	250 mm	Outside diameter
B	69 mm	Width
d_1	≈ 206 mm	Shoulder diameter inner ring
D_1	≈ 223.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 190 mm	Abutment diameter shaft
d_{as}	198 mm	Abutment diameter shaft
D_a	max. 240 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	594 kN
Basic static load rating	C_0	1 220 kN
Fatigue load limit	P_u	127 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	10.7 kg

NNCF 4938 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	260 mm
Width	69 mm

Performance

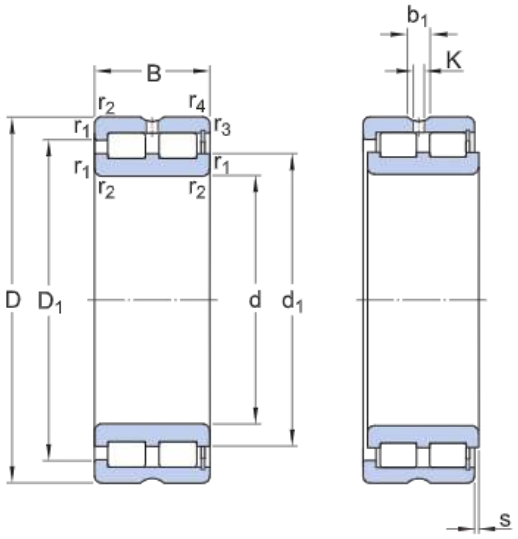
Basic dynamic load rating	605 kN
Basic static load rating	1 290 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

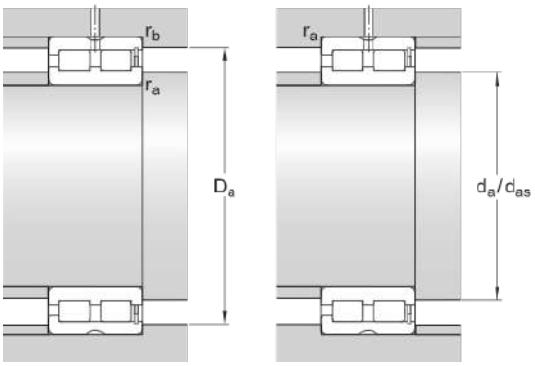
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	190 mm	Bore diameter
D	260 mm	Outside diameter
B	69 mm	Width
d_1	≈ 216 mm	Shoulder diameter inner ring
D_1	≈ 233 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 201 mm	Abutment diameter shaft
d_{as}	208 mm	Abutment diameter shaft
D_a	max. 250 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	605 kN
Basic static load rating	C_0	1 290 kN
Fatigue load limit	P_u	132 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	11.1 kg

NNCF 4940 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	280 mm
Width	80 mm

Performance

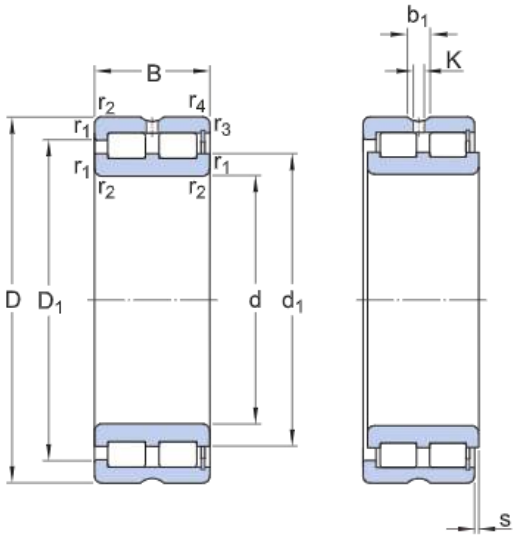
Basic dynamic load rating	704 kN
Basic static load rating	1 500 kN
Limiting speed	1 300 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

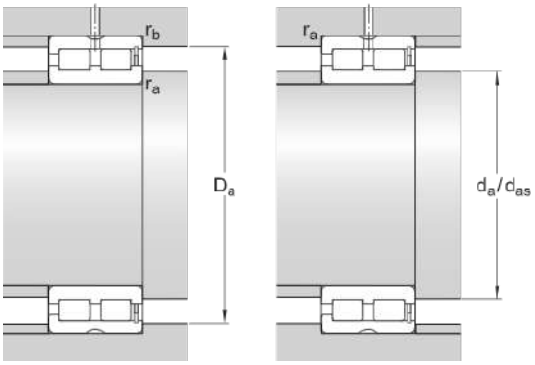
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	200 mm	Bore diameter
D	280 mm	Outside diameter
B	80 mm	Width
d_1	≈ 233 mm	Shoulder diameter inner ring
D_1	≈ 251.5 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 211 mm	Abutment diameter shaft
d_{as}	219 mm	Abutment diameter shaft
D_a	max. 269 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	704 kN
Basic static load rating	C_0	1 500 kN
Fatigue load limit	P_u	153 kN
Reference speed		1 000 r/min
Limiting speed		1 300 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	15.6 kg

NNCF 4944 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	300 mm
Width	80 mm

Performance

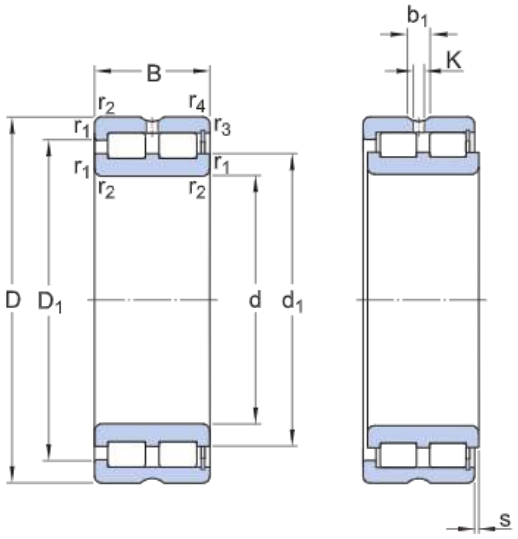
Basic dynamic load rating	737 kN
Basic static load rating	1 600 kN
Limiting speed	1 200 r/min
Reference speed	950 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

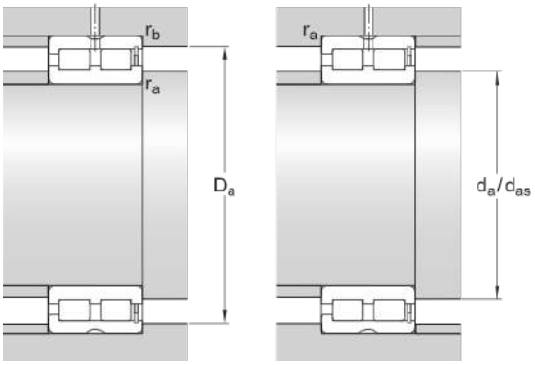
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	220 mm	Bore diameter
D	300 mm	Outside diameter
B	80 mm	Width
d_1	≈ 248 mm	Shoulder diameter inner ring
D_1	≈ 268.5 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 232 mm	Abutment diameter shaft
d_{as}	240 mm	Abutment diameter shaft
D_a	max. 288 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	737 kN
Basic static load rating	C_0	1 600 kN
Fatigue load limit	P_u	160 kN
Reference speed		950 r/min
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	17 kg

NNCF 4948 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	320 mm
Width	80 mm

Performance

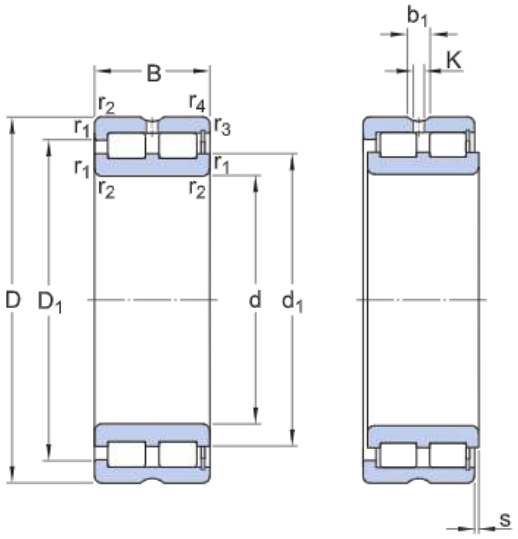
Basic dynamic load rating	781 kN
Basic static load rating	1 760 kN
Limiting speed	1 100 r/min
Reference speed	850 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

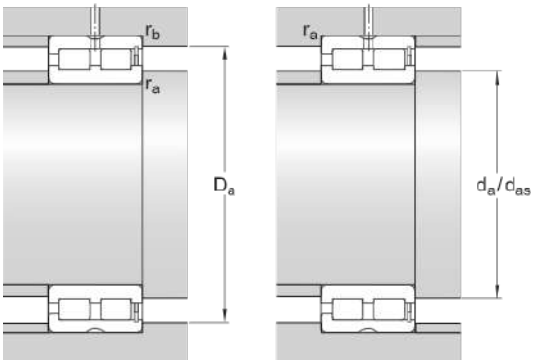
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	240 mm	Bore diameter
D	320 mm	Outside diameter
B	80 mm	Width
d_1	≈ 271 mm	Shoulder diameter inner ring
D_1	≈ 291 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 251 mm	Abutment diameter shaft
d_{as}	261 mm	Abutment diameter shaft
D_a	max. 308 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	781 kN
Basic static load rating	C_0	1 760 kN
Fatigue load limit	P_u	173 kN
Reference speed		850 r/min
Limiting speed		1 100 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	18.3 kg

NNCF 4952 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	360 mm
Width	100 mm

Performance

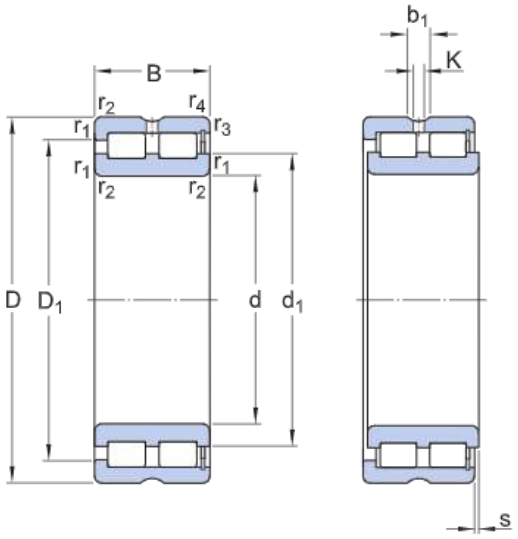
Basic dynamic load rating	1 170 kN
Basic static load rating	2 550 kN
Limiting speed	950 r/min
Reference speed	750 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

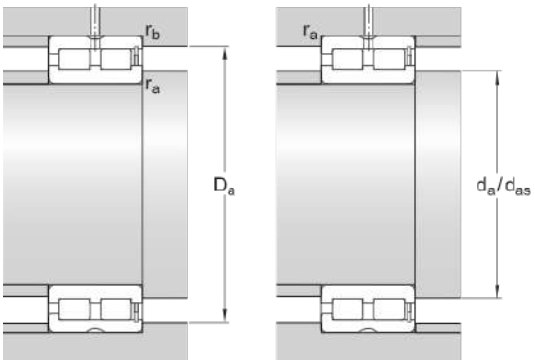
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	260 mm	Bore diameter
D	360 mm	Outside diameter
B	100 mm	Width
d_1	≈ 295 mm	Shoulder diameter inner ring
D_1	≈ 321 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 272 mm	Abutment diameter shaft
d_{as}	283 mm	Abutment diameter shaft
D_a	max. 349 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 170 kN
Basic static load rating	C_0	2 550 kN
Fatigue load limit	P_u	245 kN
Reference speed		750 r/min
Limiting speed		950 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	31.6 kg

NNCF 4956 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	380 mm
Width	100 mm

Performance

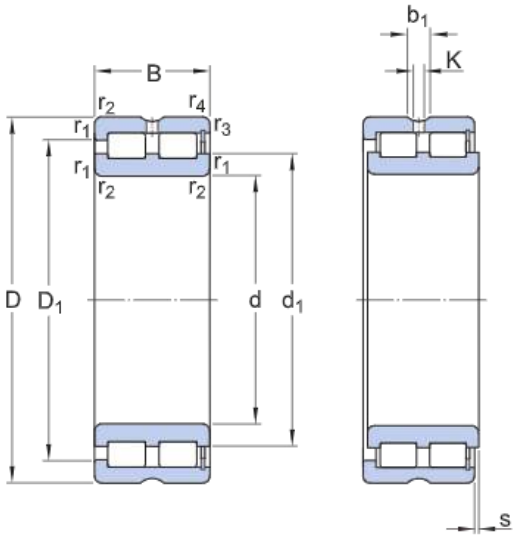
Basic dynamic load rating	1 210 kN
Basic static load rating	2 700 kN
Limiting speed	900 r/min
Reference speed	700 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

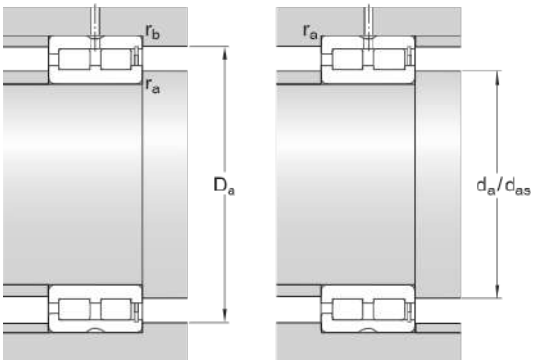
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	280 mm	Bore diameter
D	380 mm	Outside diameter
B	100 mm	Width
d_1	≈ 317 mm	Shoulder diameter inner ring
D_1	≈ 343 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 293 mm	Abutment diameter shaft
d_{as}	312 mm	Abutment diameter shaft
D_a	max. 368 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 210 kN
Basic static load rating	C_0	2 700 kN
Fatigue load limit	P_u	255 kN
Reference speed		700 r/min
Limiting speed		900 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	33.5 kg

NNCF 4960 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	420 mm
Width	118 mm

Performance

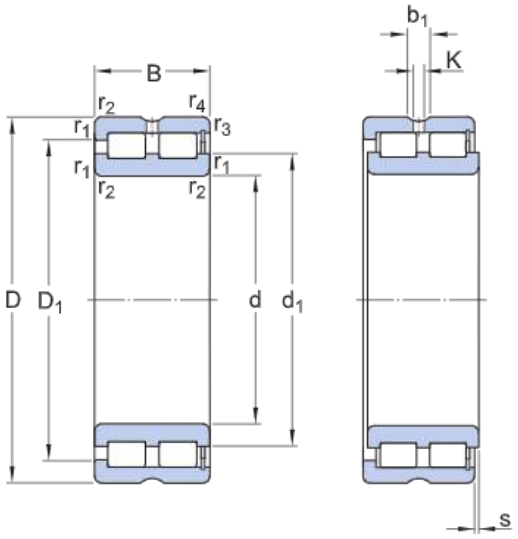
Basic dynamic load rating	1 680 kN
Basic static load rating	3 750 kN
Limiting speed	800 r/min
Reference speed	670 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

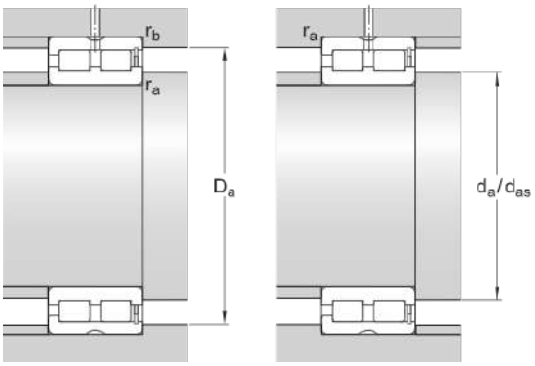
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	300 mm	Bore diameter
D	420 mm	Outside diameter
B	118 mm	Width
d_1	≈ 340 mm	Shoulder diameter inner ring
D_1	≈ 374 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 315 mm	Abutment diameter shaft
d_{as}	335 mm	Abutment diameter shaft
D_a	max. 406 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 680 kN
Basic static load rating	C_0	3 750 kN
Fatigue load limit	P_u	355 kN
Reference speed		670 r/min
Limiting speed		800 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	52.5 kg

NNCF 5004 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	0.787 in
Outside diameter	1.654 in
Width	1.181 in

Performance

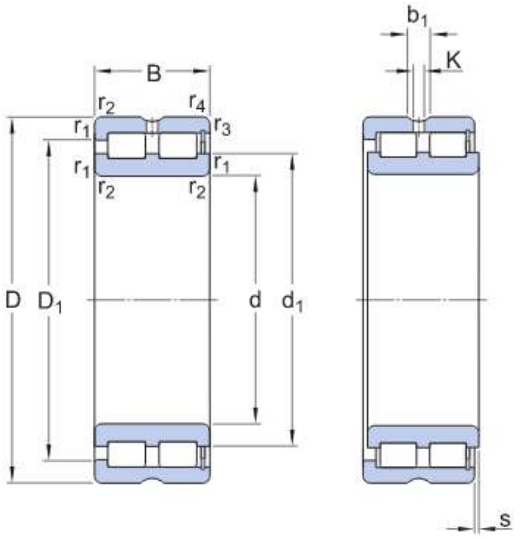
Basic dynamic load rating	11 758 lbf
Basic static load rating	12 814 lbf
Limiting speed	10 000 r/min
Reference speed	8 500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

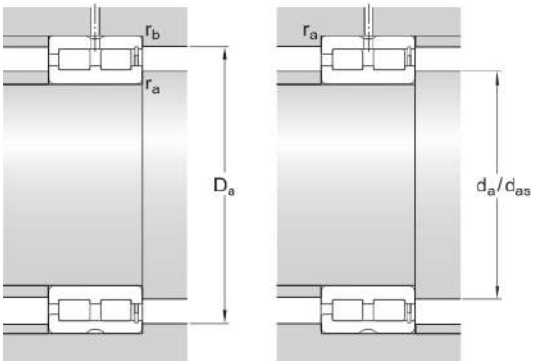
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	0.787 in	Bore diameter
D	1.654 in	Outside diameter
B	1.181 in	Width
d_1	≈ 1.118 in	Shoulder diameter inner ring
D_1	≈ 1.307 in	Shoulder diameter outer ring
b_1	0.177 in	Width annular lubrication groove outer ring
K	0.118 in	Diameter lubrication hole (outer ring)
s	max. 0.0394 in	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 0.024 in	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.012 in	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 0.913 in	Abutment diameter shaft
d_{as}	1.008 in	Abutment diameter shaft
D_a	max. 1.524 in	Abutment diameter housing
r_a	max. 0.02 in	Fillet radius
r_b	max. 0.012 in	Fillet radius

Calculation data

Basic dynamic load rating	C	11 758 lbf
Basic static load rating	C_0	12 814 lbf
Fatigue load limit	P_u	1 394 lbf
Reference speed		8 500 r/min
Limiting speed		10 000 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	0.441 lb

NNCF 5005 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	47 mm
Width	30 mm

Performance

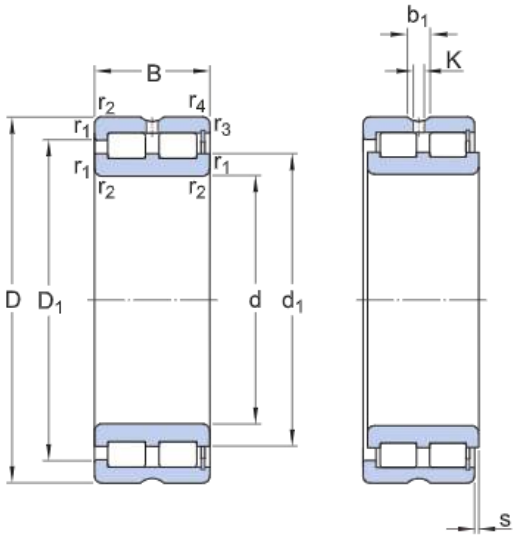
Basic dynamic load rating	59.4 kN
Basic static load rating	71 kN
Limiting speed	9 000 r/min
Reference speed	7 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

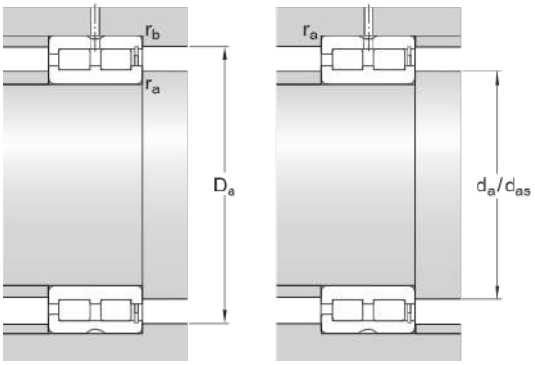
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	30 mm	Width
d_1	≈ 34.5 mm	Shoulder diameter inner ring
D_1	≈ 38.5 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3 mm	Diameter lubrication hole (outer ring)
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 0.6 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 28.7 mm	Abutment diameter shaft
d_{as}	31.5 mm	Abutment diameter shaft
D_a	max. 43.5 mm	Abutment diameter housing
r_a	max. 0.5 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	59.4 kN
Basic static load rating	C_0	71 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		7 000 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	0.23 kg

NNCF 5006 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	55 mm
Width	34 mm

Performance

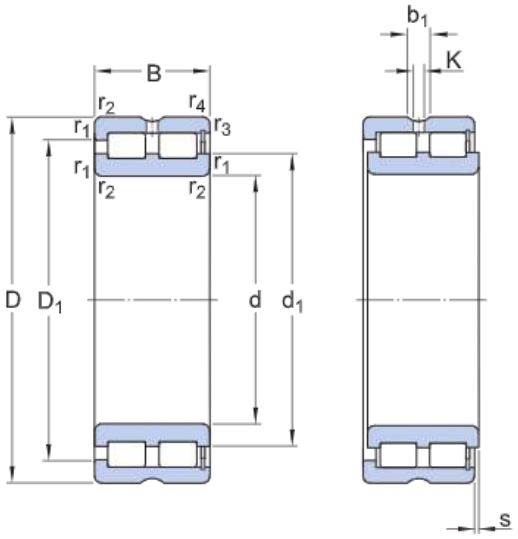
Basic dynamic load rating	73.7 kN
Basic static load rating	88 kN
Limiting speed	7 500 r/min
Reference speed	6 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

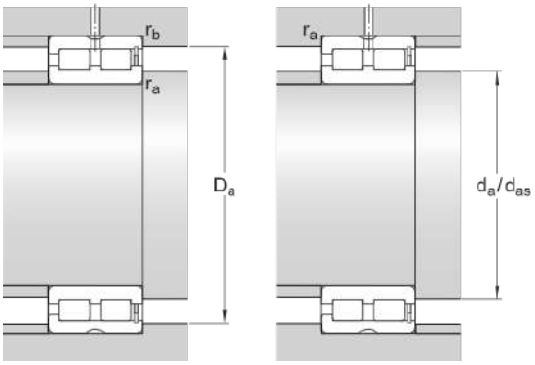
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	30 mm	Bore diameter
D	55 mm	Outside diameter
B	34 mm	Width
d_1	≈ 40 mm	Shoulder diameter inner ring
D_1	≈ 45.5 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 34.7 mm	Abutment diameter shaft
d_{as}	37.8 mm	Abutment diameter shaft
D_a	max. 50.3 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	73.7 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	10 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	0.35 kg

NNCF 5007 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	62 mm
Width	36 mm

Performance

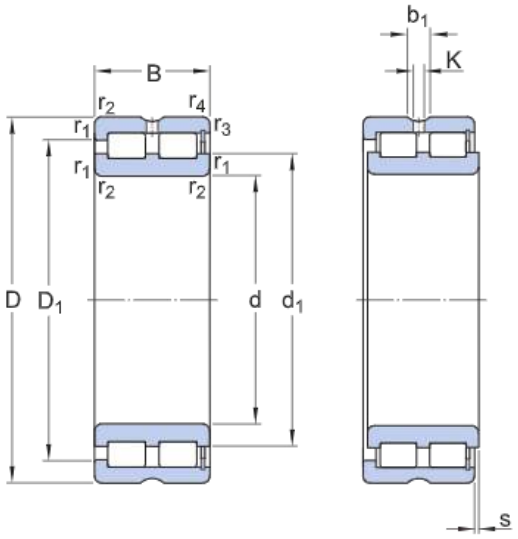
Basic dynamic load rating	89.7 kN
Basic static load rating	112 kN
Limiting speed	6 700 r/min
Reference speed	5 300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

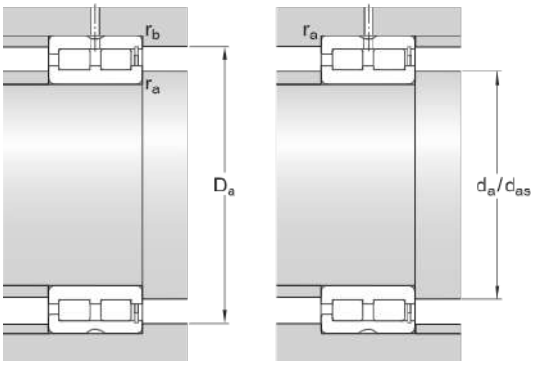
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
B	36 mm	Width
d_1	≈ 45 mm	Shoulder diameter inner ring
D_1	≈ 51.5 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 40.2 mm	Abutment diameter shaft
d_{as}	42.6 mm	Abutment diameter shaft
D_a	max. 57.5 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	89.7 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	12.9 kN
Reference speed		5 300 r/min
Limiting speed		6 700 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	0.46 kg

NNCF 5008 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	68 mm
Width	38 mm

Performance

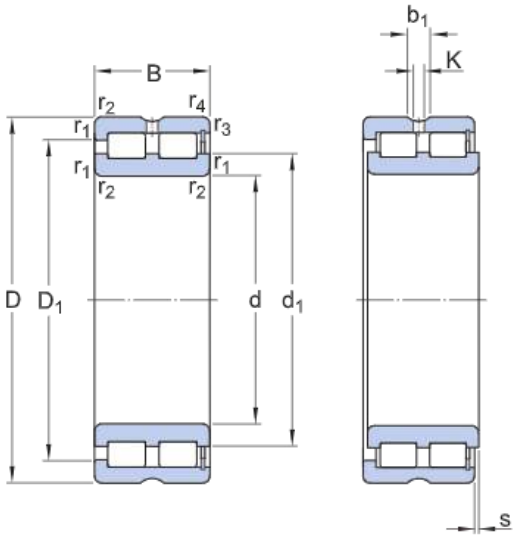
Basic dynamic load rating	106 kN
Basic static load rating	140 kN
Limiting speed	6 000 r/min
Reference speed	4 800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

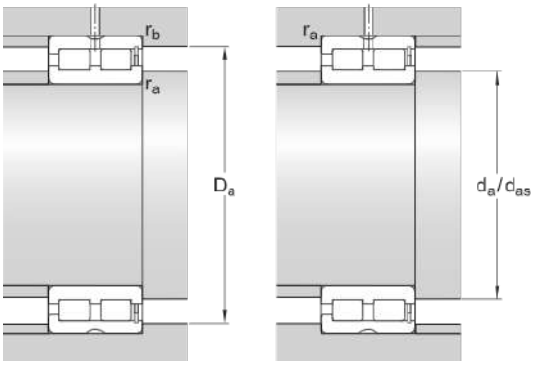
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	40 mm	Bore diameter
D	68 mm	Outside diameter
B	38 mm	Width
d_1	≈ 50.5 mm	Shoulder diameter inner ring
D_1	≈ 57.2 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 44.8 mm	Abutment diameter shaft
d_{as}	47.7 mm	Abutment diameter shaft
D_a	max. 63.3 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	140 kN
Fatigue load limit	P_u	17 kN
Reference speed		4 800 r/min
Limiting speed		6 000 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	0.56 kg

NNCF 5009 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	75 mm
Width	40 mm

Performance

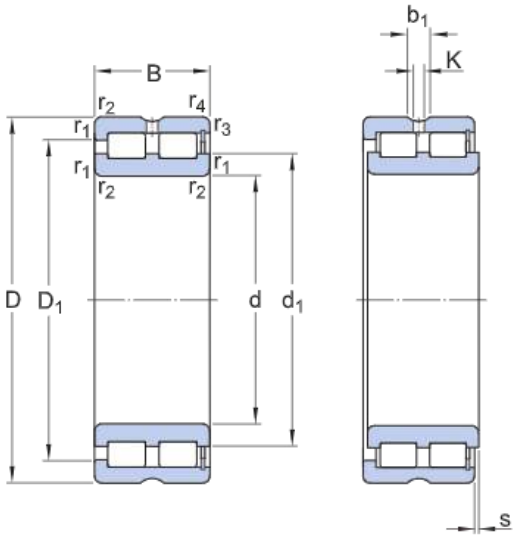
Basic dynamic load rating	112 kN
Basic static load rating	156 kN
Limiting speed	5 300 r/min
Reference speed	4 300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

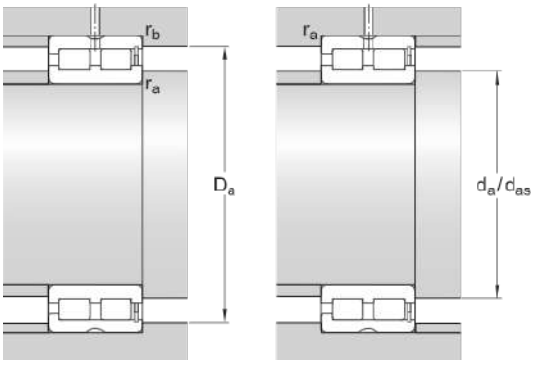
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	40 mm	Width
d_1	≈ 55.3 mm	Shoulder diameter inner ring
D_1	≈ 62.5 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 50.2 mm	Abutment diameter shaft
d_{as}	52.8 mm	Abutment diameter shaft
D_a	max. 70 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	156 kN
Fatigue load limit	P_u	18.3 kN
Reference speed		4 300 r/min
Limiting speed		5 300 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	0.71 kg

NNCF 5010 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	80 mm
Width	40 mm

Performance

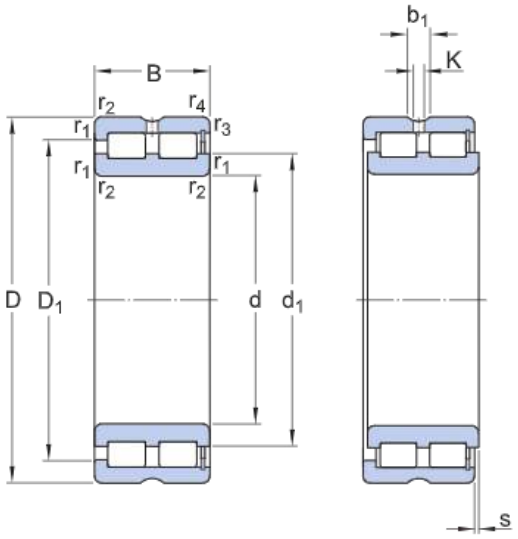
Basic dynamic load rating	142 kN
Basic static load rating	196 kN
Limiting speed	5 000 r/min
Reference speed	4 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

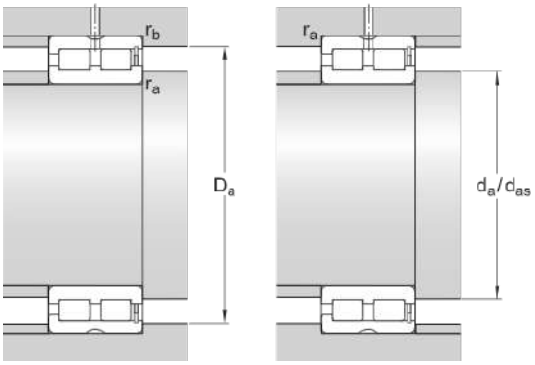
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	40 mm	Width
d_1	≈ 59 mm	Shoulder diameter inner ring
D_1	≈ 67.5 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 55.5 mm	Abutment diameter shaft
d_{as}	56.7 mm	Abutment diameter shaft
D_a	max. 74.8 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	142 kN
Basic static load rating	C_0	196 kN
Fatigue load limit	P_u	23.6 kN
Reference speed		4 000 r/min
Limiting speed		5 000 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	0.76 kg

NNCF 5011 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	90 mm
Width	46 mm

Performance

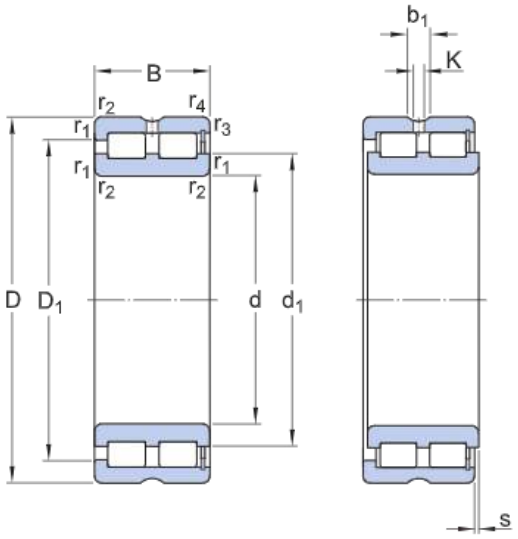
Basic dynamic load rating	190 kN
Basic static load rating	280 kN
Limiting speed	4 300 r/min
Reference speed	3 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

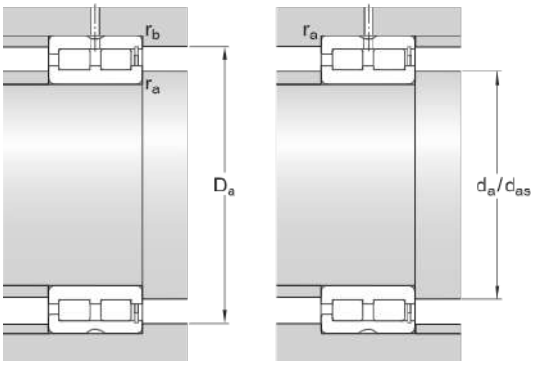
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	46 mm	Width
d_1	≈ 68.5 mm	Shoulder diameter inner ring
D_1	≈ 78.7 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 61 mm	Abutment diameter shaft
d_{as}	64.8 mm	Abutment diameter shaft
D_a	max. 84 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	190 kN
Basic static load rating	C_0	280 kN
Fatigue load limit	P_u	34.5 kN
Reference speed		3 400 r/min
Limiting speed		4 300 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	1.16 kg

NNCF 5012 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	60 mm
Outside diameter	95 mm
Width	46 mm

Performance

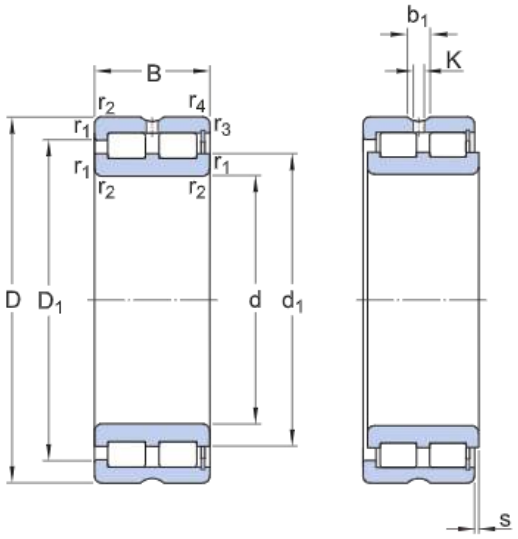
Basic dynamic load rating	198 kN
Basic static load rating	300 kN
Limiting speed	4 000 r/min
Reference speed	3 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

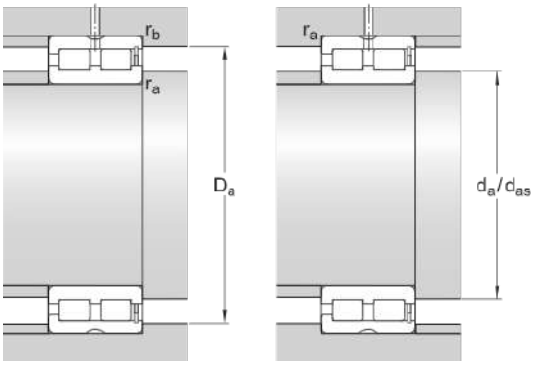
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	60	mm	Bore diameter
D	95	mm	Outside diameter
B	46	mm	Width
d_1	≈ 71.5	mm	Shoulder diameter inner ring
D_1	≈ 82	mm	Shoulder diameter outer ring
b_1	4.5	mm	Width annular lubrication groove outer ring
K	3.5	mm	Diameter lubrication hole (outer ring)
s	max. 1.5	mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1	mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.6	mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.		



Abutment dimensions

d_a	min. 66	mm	Abutment diameter shaft
d_{as}	68.9	mm	Abutment diameter shaft
D_a	max. 89	mm	Abutment diameter housing
r_a	max. 1	mm	Fillet radius
r_b	max. 0.5	mm	Fillet radius

Calculation data

Basic dynamic load rating	C	198 kN
Basic static load rating	C_0	300 kN
Fatigue load limit	P_u	36.5 kN
Reference speed		3 400 r/min
Limiting speed		4 000 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	1.24 kg

NNCF 5013 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	65 mm
Outside diameter	100 mm
Width	46 mm

Performance

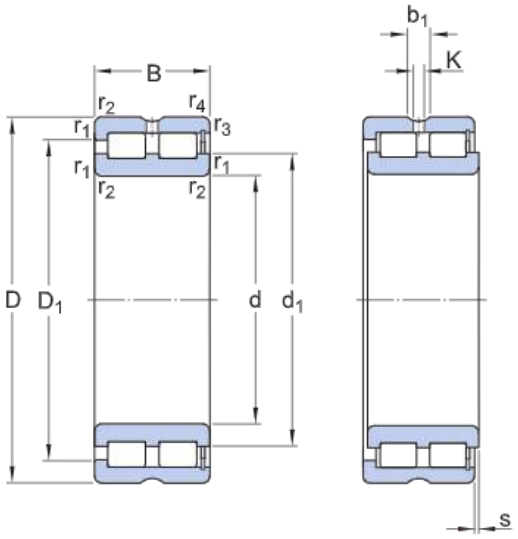
Basic dynamic load rating	209 kN
Basic static load rating	325 kN
Limiting speed	3 800 r/min
Reference speed	3 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

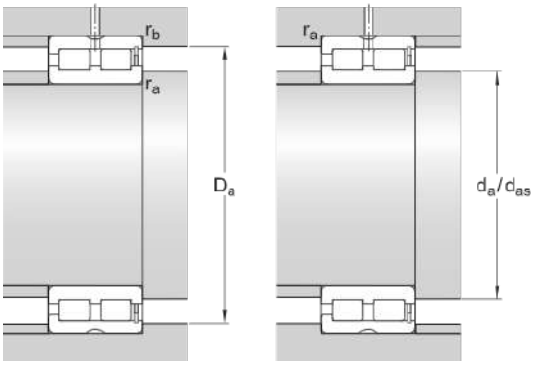
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	65 mm	Bore diameter
D	100 mm	Outside diameter
B	46 mm	Width
d_1	≈ 78 mm	Shoulder diameter inner ring
D_1	≈ 88.3 mm	Shoulder diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 72 mm	Abutment diameter shaft
d_{as}	75 mm	Abutment diameter shaft
D_a	max. 94 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	209 kN
Basic static load rating	C_0	325 kN
Fatigue load limit	P_u	40 kN
Reference speed		3 000 r/min
Limiting speed		3 800 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	1.32 kg

NNCF 5014 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	110 mm
Width	54 mm

Performance

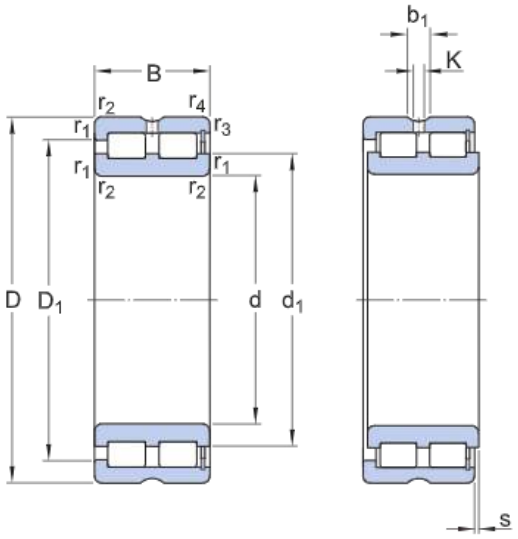
Basic dynamic load rating	238 kN
Basic static load rating	345 kN
Limiting speed	3 600 r/min
Reference speed	2 800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

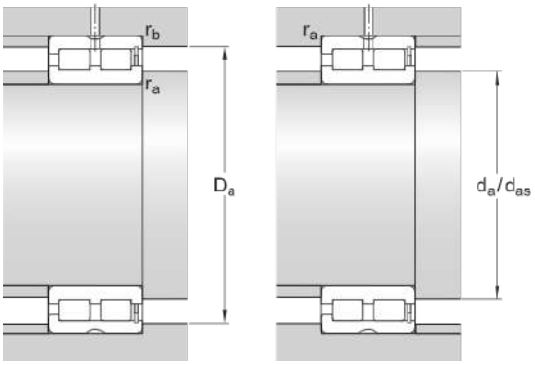
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	70 mm	Bore diameter
D	110 mm	Outside diameter
B	54 mm	Width
d_1	≈ 81.5 mm	Shoulder diameter inner ring
D_1	≈ 95 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 76 mm	Abutment diameter shaft
d_{as}	79 mm	Abutment diameter shaft
D_a	max. 105 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	238 kN
Basic static load rating	C_0	345 kN
Fatigue load limit	P_u	45 kN
Reference speed		2 800 r/min
Limiting speed		3 600 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	1.85 kg

NNF 5014 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	110 mm
Width	54 mm

Performance

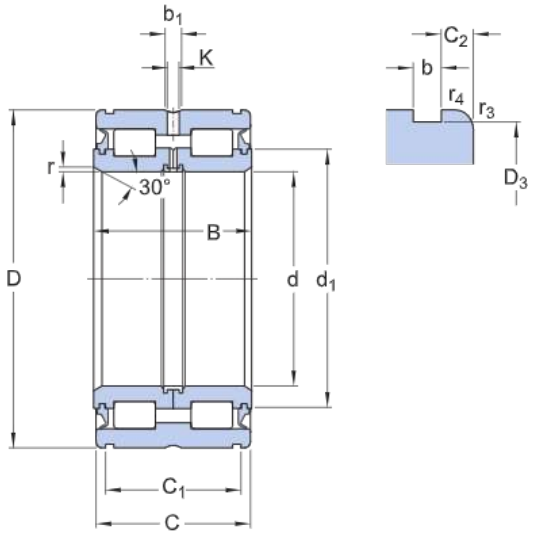
Basic dynamic load rating	187 kN
Basic static load rating	285 kN
Limiting speed	1 200 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

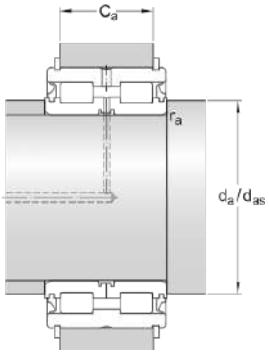


Dimensions

d	70 mm	Bore diameter
D	110 mm	Outside diameter
B	54 mm	Width
C	53 mm	Outer ring width (sealed bearing)
d_1	≈ 84.5 mm	Shoulder diameter inner ring
D_3	107.1 mm	Snap ring groove diameter at outer ring
C_1	48.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	9.5 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
r	min. 1 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 75 mm	Abutment diameter shaft
d_a	82 mm	Abutment diameter shaft
C_a	43 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	40 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	187 kN
Basic static load rating	C_0	285 kN
Fatigue load limit	P_u	34.5 kN
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	1.87 kg

Associated products

Snap ring Seeger	SW 110
Snap ring in accordance with DIN 471	110x4

NNCF 5016 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	125 mm
Width	60 mm

Performance

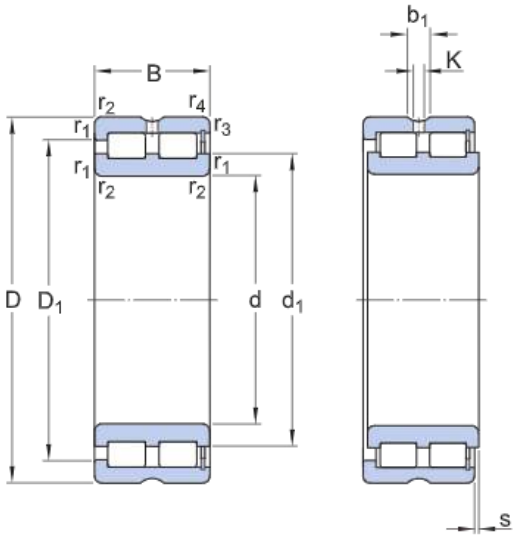
Basic dynamic load rating	308 kN
Basic static load rating	455 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

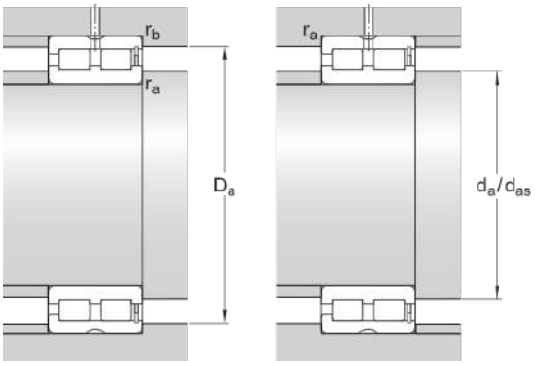
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	80 mm	Bore diameter
D	125 mm	Outside diameter
B	60 mm	Width
d_1	≈ 95 mm	Shoulder diameter inner ring
D_1	≈ 111 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 86 mm	Abutment diameter shaft
d_{as}	91 mm	Abutment diameter shaft
D_a	max. 119 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	308 kN
Basic static load rating	C_0	455 kN
Fatigue load limit	P_u	58.5 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	2.59 kg

NNCF 5017 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	85 mm
Outside diameter	130 mm
Width	60 mm

Performance

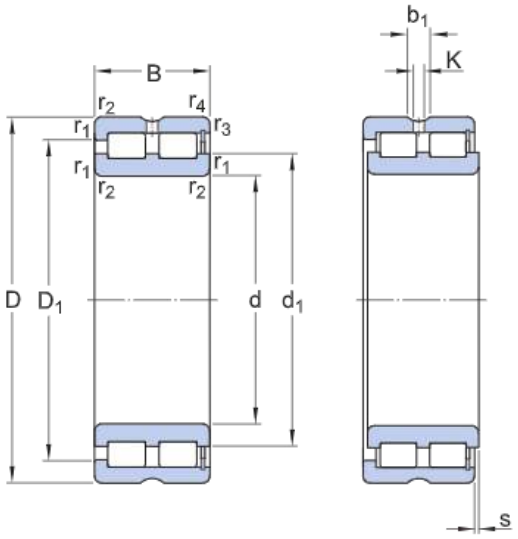
Basic dynamic load rating	314 kN
Basic static load rating	475 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

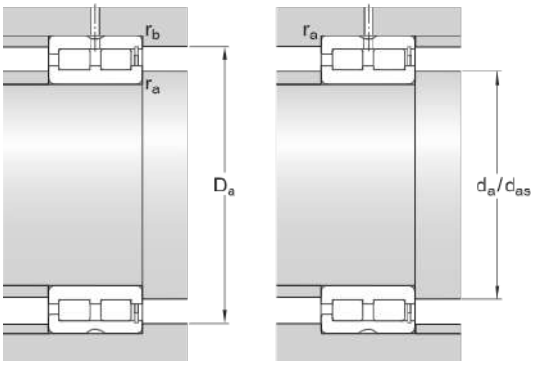
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	85 mm	Bore diameter
D	130 mm	Outside diameter
B	60 mm	Width
d_1	≈ 99.5 mm	Shoulder diameter inner ring
D_1	≈ 115.5 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 91 mm	Abutment diameter shaft
d_{as}	95 mm	Abutment diameter shaft
D_a	max. 124 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	314 kN
Basic static load rating	C_0	475 kN
Fatigue load limit	P_u	60 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	2.72 kg

NNCF 5018 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	90 mm
Outside diameter	140 mm
Width	67 mm

Performance

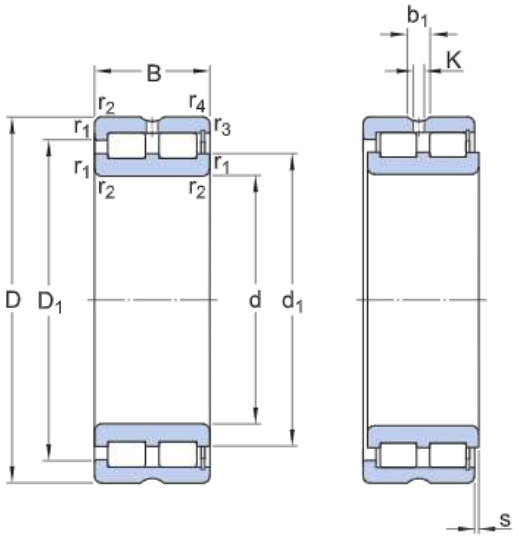
Basic dynamic load rating	369 kN
Basic static load rating	560 kN
Limiting speed	2 800 r/min
Reference speed	2 200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

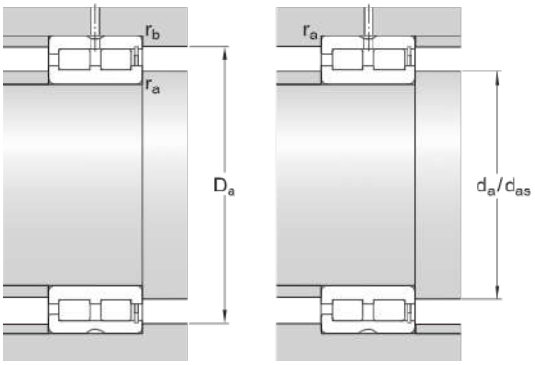
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	90 mm	Bore diameter
D	140 mm	Outside diameter
B	67 mm	Width
d_1	≈ 106.5 mm	Shoulder diameter inner ring
D_1	≈ 124 mm	Shoulder diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 98 mm	Abutment diameter shaft
d_{as}	102 mm	Abutment diameter shaft
D_a	max. 133 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	369 kN
Basic static load rating	C_0	560 kN
Fatigue load limit	P_u	69.5 kN
Reference speed		2 200 r/min
Limiting speed		2 800 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	3.62 kg

NNCF 5020 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	150 mm
Width	67 mm

Performance

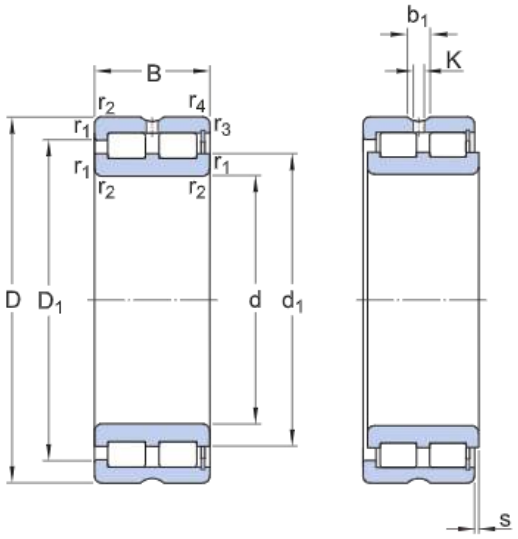
Basic dynamic load rating	391 kN
Basic static load rating	620 kN
Limiting speed	2 600 r/min
Reference speed	2 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

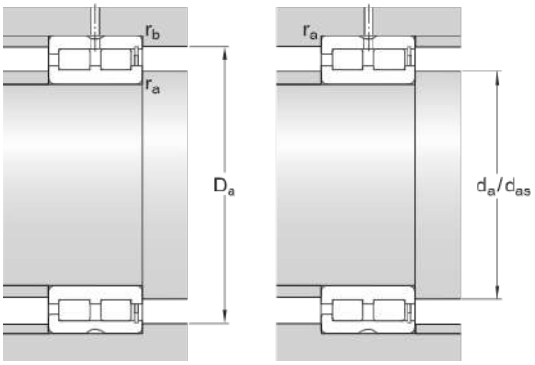
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	100 mm	Bore diameter
D	150 mm	Outside diameter
B	67 mm	Width
d_1	≈ 116 mm	Shoulder diameter inner ring
D_1	≈ 133.5 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 108 mm	Abutment diameter shaft
d_{as}	113 mm	Abutment diameter shaft
D_a	max. 143 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	391 kN
Basic static load rating	C_0	620 kN
Fatigue load limit	P_u	75 kN
Reference speed		2 000 r/min
Limiting speed		2 600 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	3.94 kg

NNCF 5022 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	170 mm
Width	80 mm

Performance

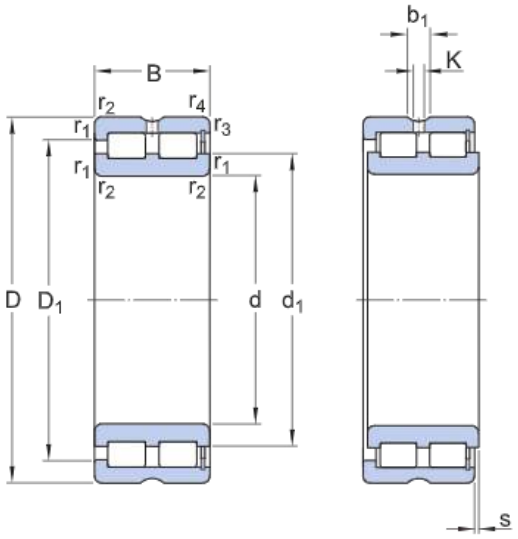
Basic dynamic load rating	512 kN
Basic static load rating	800 kN
Limiting speed	2 200 r/min
Reference speed	1 800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

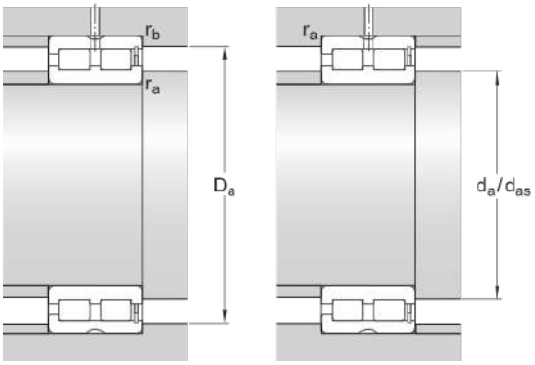
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	110 mm	Bore diameter
D	170 mm	Outside diameter
B	80 mm	Width
d_1	≈ 127.5 mm	Shoulder diameter inner ring
D_1	≈ 148.5 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 120 mm	Abutment diameter shaft
d_{as}	124 mm	Abutment diameter shaft
D_a	max. 161 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	512 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	95 kN
Reference speed		1 800 r/min
Limiting speed		2 200 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	6.32 kg

NNCF 5024 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	180 mm
Width	80 mm

Performance

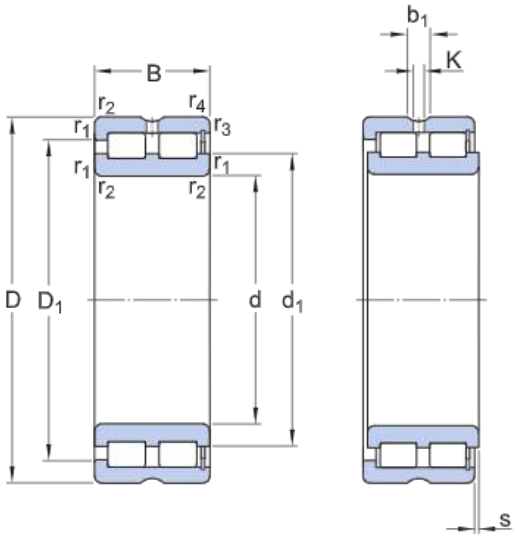
Basic dynamic load rating	539 kN
Basic static load rating	880 kN
Limiting speed	2 000 r/min
Reference speed	1 700 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

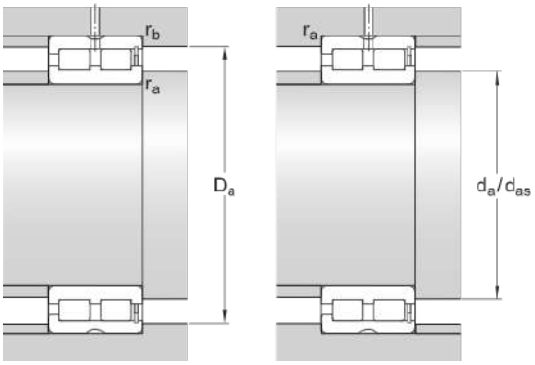
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	80 mm	Width
d_1	≈ 139 mm	Shoulder diameter inner ring
D_1	≈ 160 mm	Shoulder diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 130 mm	Abutment diameter shaft
d_{as}	130 mm	Abutment diameter shaft
D_a	max. 171 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	539 kN
Basic static load rating	C_0	880 kN
Fatigue load limit	P_u	104 kN
Reference speed		1 700 r/min
Limiting speed		2 000 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	6.77 kg

NNCF 5030 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	225 mm
Width	100 mm

Performance

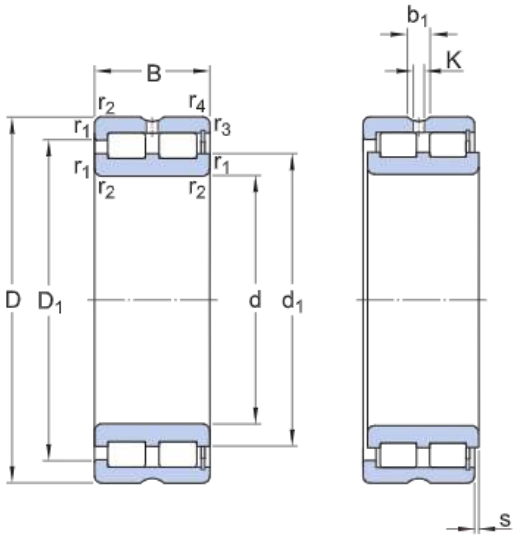
Basic dynamic load rating	842 kN
Basic static load rating	1 430 kN
Limiting speed	1 700 r/min
Reference speed	1 300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

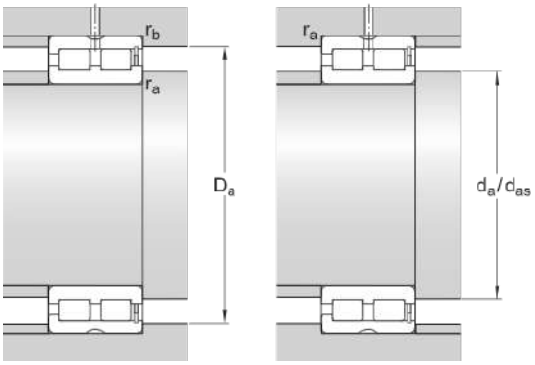
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	150 mm	Bore diameter
D	225 mm	Outside diameter
B	100 mm	Width
d_1	≈ 170.5 mm	Shoulder diameter inner ring
D_1	≈ 197.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.	



Abutment dimensions

d_a	min. 160 mm	Abutment diameter shaft
d_{as}	166 mm	Abutment diameter shaft
D_a	max. 217 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	842 kN
Basic static load rating	C_0	1 430 kN
Fatigue load limit	P_u	160 kN
Reference speed		1 300 r/min
Limiting speed		1 700 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	13.3 kg

NNCF 5032 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	240 mm
Width	109 mm

Performance

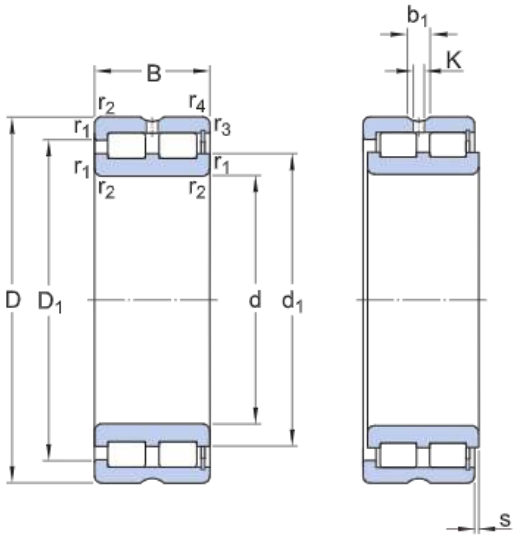
Basic dynamic load rating	952 kN
Basic static load rating	1 600 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

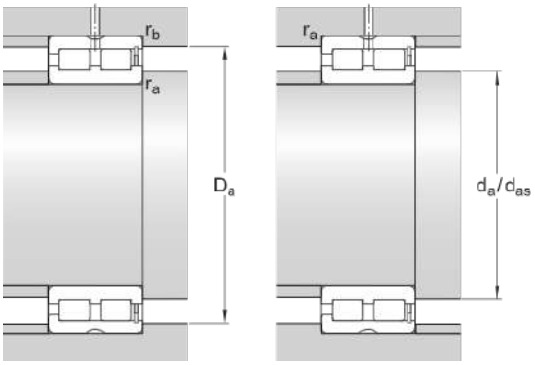
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	160	mm	Bore diameter
D	240	mm	Outside diameter
B	109	mm	Width
d_1	≈ 185	mm	Shoulder diameter inner ring
D_1	≈ 216	mm	Shoulder diameter outer ring
b_1	7	mm	Width annular lubrication groove outer ring
K	4	mm	Diameter lubrication hole (outer ring)
s	max. 6	mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1	mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1	mm	Chamfer dimension
	Parameter r3.4 has either the value specified here or the same value as r1.2.		



Abutment dimensions

d_a	min. 171	mm	Abutment diameter shaft
d_{as}	178	mm	Abutment diameter shaft
D_a	max. 231	mm	Abutment diameter housing
r_a	max. 2	mm	Fillet radius
r_b	max. 1	mm	Fillet radius

Calculation data

Basic dynamic load rating	C	952 kN
Basic static load rating	C_0	1 600 kN
Fatigue load limit	P_u	180 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	16.2 kg

NNCF 5034 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	260 mm
Width	122 mm

Performance

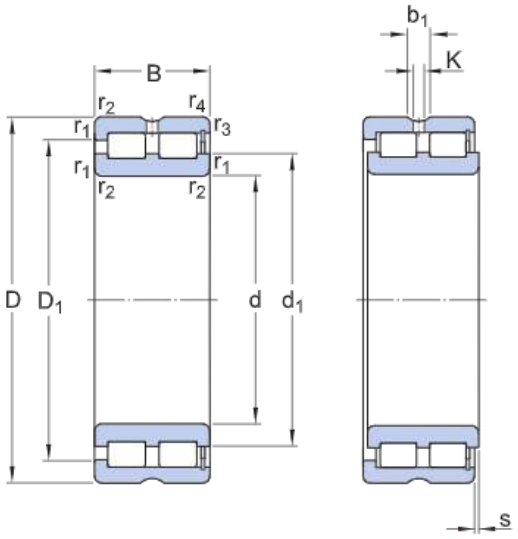
Basic dynamic load rating	1 230 kN
Basic static load rating	2 120 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

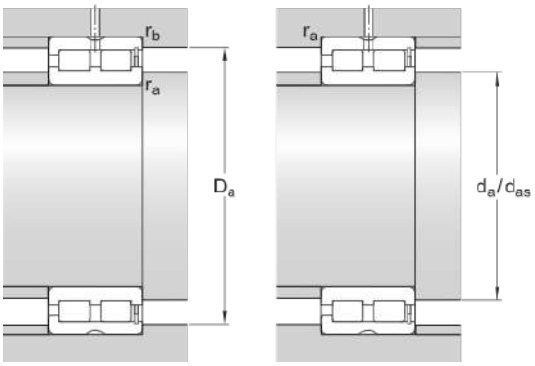
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	170 mm	Bore diameter
D	260 mm	Outside diameter
B	122 mm	Width
d_1	≈ 198.5 mm	Shoulder diameter inner ring
D_1	≈ 231.5 mm	Shoulder diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 181 mm	Abutment diameter shaft
d_{as}	193 mm	Abutment diameter shaft
D_a	max. 251 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 230 kN
Basic static load rating	C_0	2 120 kN
Fatigue load limit	P_u	236 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	23 kg

NNCF 5036 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	280 mm
Width	136 mm

Performance

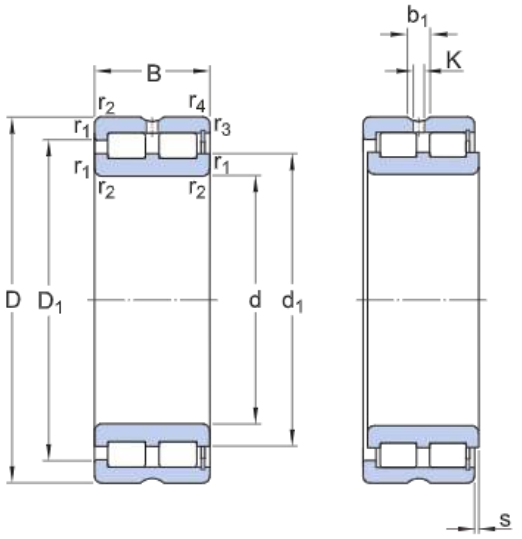
Basic dynamic load rating	1 420 kN
Basic static load rating	2 500 kN
Limiting speed	1 300 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

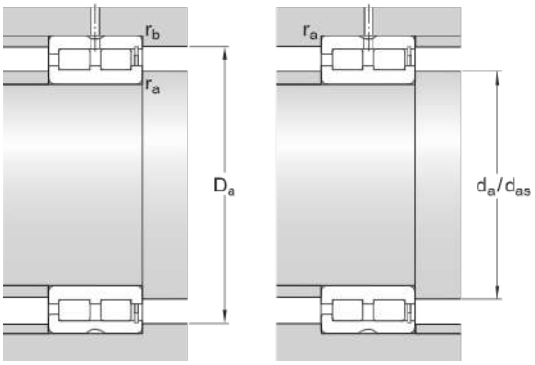
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	180 mm	Bore diameter
D	280 mm	Outside diameter
B	136 mm	Width
d_1	≈ 212.5 mm	Shoulder diameter inner ring
D_1	≈ 248 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 191 mm	Abutment diameter shaft
d_{as}	206 mm	Abutment diameter shaft
D_a	max. 270 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 420 kN
Basic static load rating	C_0	2 500 kN
Fatigue load limit	P_u	270 kN
Reference speed		1 100 r/min
Limiting speed		1 300 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	30.5 kg

NNCF 5040 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	310 mm
Width	150 mm

Performance

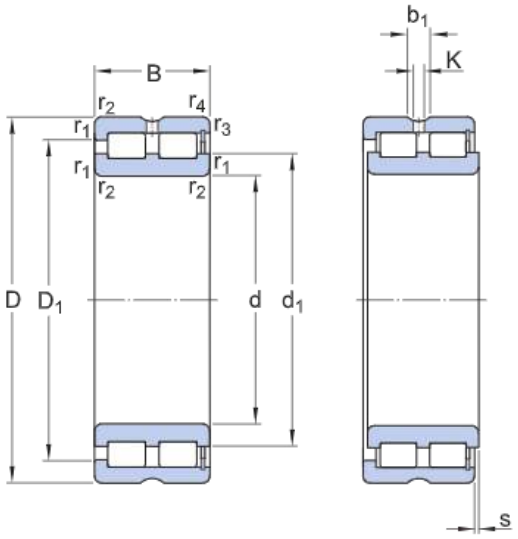
Basic dynamic load rating	1 680 kN
Basic static load rating	3 050 kN
Limiting speed	1 200 r/min
Reference speed	950 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

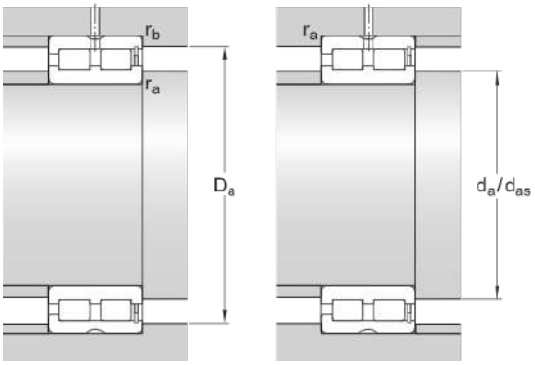
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	200 mm	Bore diameter
D	310 mm	Outside diameter
B	150 mm	Width
d_1	≈ 237 mm	Shoulder diameter inner ring
D_1	≈ 274.5 mm	Shoulder diameter outer ring
b_1	7.4 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 212 mm	Abutment diameter shaft
d_{as}	224 mm	Abutment diameter shaft
D_a	max. 300 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 680 kN
Basic static load rating	C_0	3 050 kN
Fatigue load limit	P_u	320 kN
Reference speed		950 r/min
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	41 kg

NNCF 5044 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	340 mm
Width	160 mm

Performance

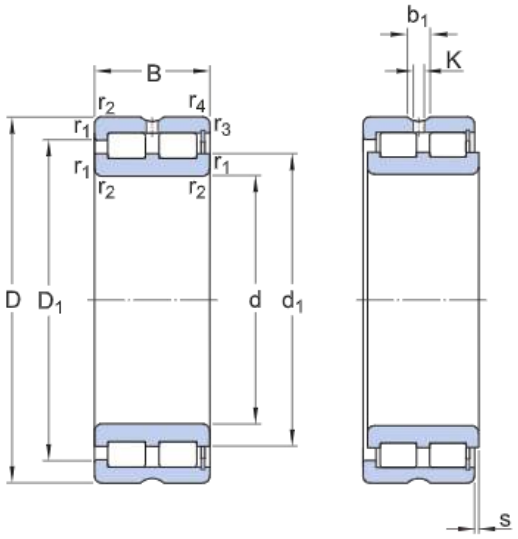
Basic dynamic load rating	2 010 kN
Basic static load rating	3 600 kN
Limiting speed	1 100 r/min
Reference speed	850 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

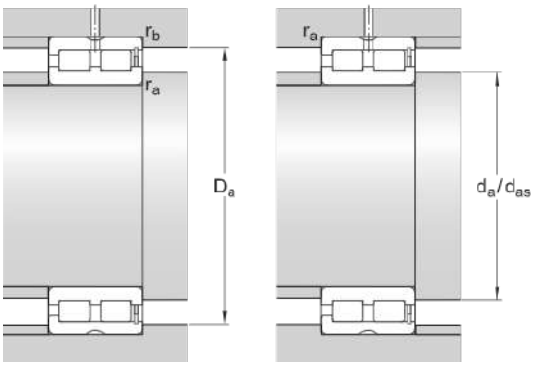
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	220 mm	Bore diameter
D	340 mm	Outside diameter
B	160 mm	Width
d_1	≈ 255.1 mm	Shoulder diameter inner ring
D_1	≈ 301.9 mm	Shoulder diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 235 mm	Abutment diameter shaft
d_{as}	245 mm	Abutment diameter shaft
D_a	max. 327 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 010 kN
Basic static load rating	C_0	3 600 kN
Fatigue load limit	P_u	375 kN
Reference speed		850 r/min
Limiting speed		1 100 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	51 kg

NNCF 5048 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	360 mm
Width	160 mm

Performance

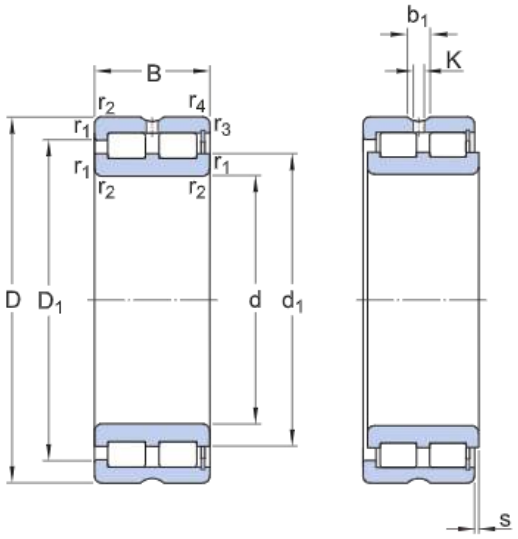
Basic dynamic load rating	2 120 kN
Basic static load rating	3 900 kN
Limiting speed	1 000 r/min
Reference speed	800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

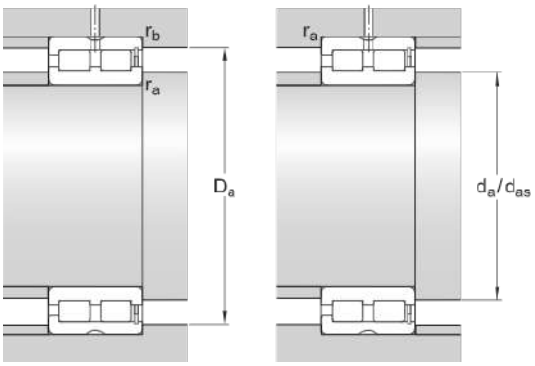
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	240 mm	Bore diameter
D	360 mm	Outside diameter
B	160 mm	Width
d_1	≈ 276.7 mm	Shoulder diameter inner ring
D_1	≈ 323.5 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 256 mm	Abutment diameter shaft
d_{as}	267 mm	Abutment diameter shaft
D_a	max. 347 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 120 kN
Basic static load rating	C_0	3 900 kN
Fatigue load limit	P_u	400 kN
Reference speed		800 r/min
Limiting speed		1 000 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	56 kg

NNCF 5052 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	400 mm
Width	190 mm

Performance

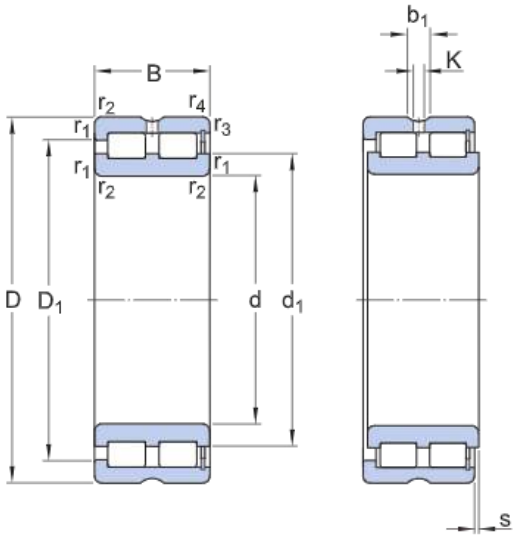
Basic dynamic load rating	2 860 kN
Basic static load rating	5 100 kN
Limiting speed	900 r/min
Reference speed	700 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

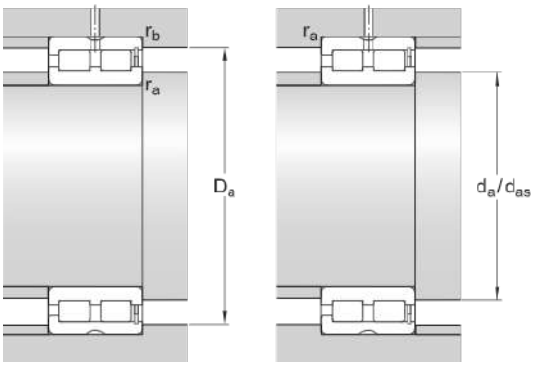
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	260 mm	Bore diameter
D	400 mm	Outside diameter
B	190 mm	Width
d_1	≈ 302.8 mm	Shoulder diameter inner ring
D_1	≈ 361.7 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 10 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 278 mm	Abutment diameter shaft
d_{as}	291 mm	Abutment diameter shaft
D_a	max. 384 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 860 kN
Basic static load rating	C_0	5 100 kN
Fatigue load limit	P_u	500 kN
Reference speed		700 r/min
Limiting speed		900 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	85.5 kg

NNCF 5056 CV

Double row full complement cylindrical roller bearing, NNCF design, with relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Relubrication feature

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	420 mm
Width	190 mm

Performance

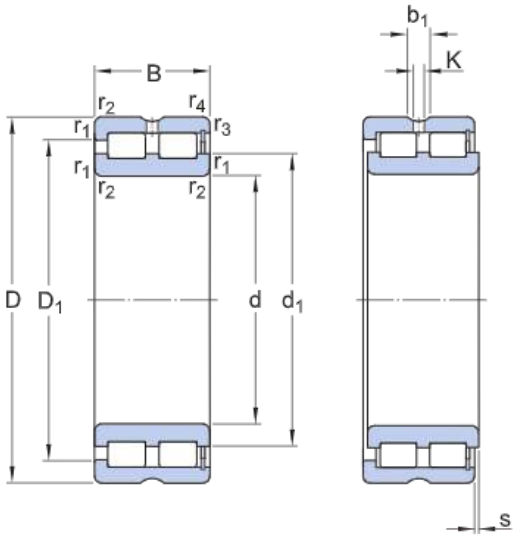
Basic dynamic load rating	2 920 kN
Basic static load rating	5 300 kN
Limiting speed	850 r/min
Reference speed	670 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN

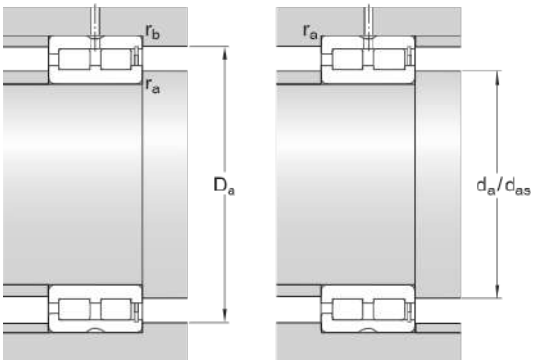
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	280 mm	Bore diameter
D	420 mm	Outside diameter
B	190 mm	Width
d_1	≈ 318 mm	Shoulder diameter inner ring
D_1	≈ 372 mm	Shoulder diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 10 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 299 mm	Abutment diameter shaft
d_{as}	310 mm	Abutment diameter shaft
D_a	max. 404 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 920 kN
Basic static load rating	C_0	5 300 kN
Fatigue load limit	P_u	520 kN
Reference speed		670 r/min
Limiting speed		850 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	90.5 kg

NNCF 5060 CV

Double row full complement cylindrical roller bearing, NNCF design

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	460 mm
Width	218 mm

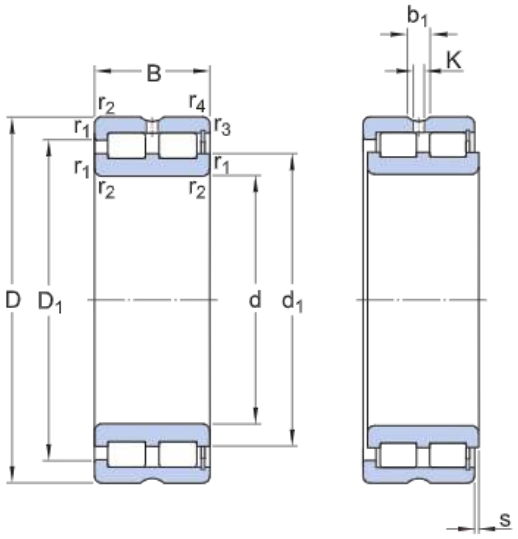
Performance

Basic dynamic load rating	3 520 kN
Basic static load rating	6 550 kN
Limiting speed	750 r/min
Reference speed	600 r/min

Properties

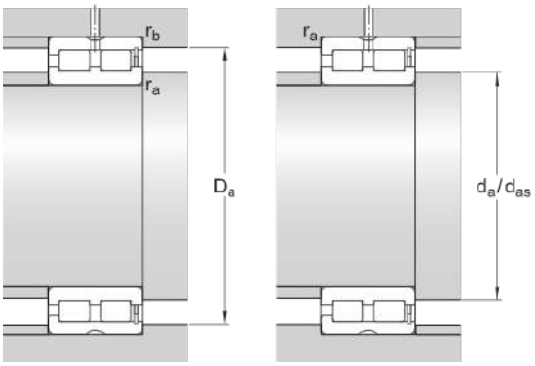
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	300 mm	Bore diameter
D	460 mm	Outside diameter
B	218 mm	Width
d_1	≈ 352 mm	Shoulder diameter inner ring
D_1	≈ 418 mm	Shoulder diameter outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 319 mm	Abutment diameter shaft
d_{as}	336 mm	Abutment diameter shaft
D_a	max. 443 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 520 kN
Basic static load rating	C_0	6 550 kN
Fatigue load limit	P_u	600 kN
Reference speed		600 r/min
Limiting speed		750 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	130 kg

NNCF 5064 CV

Double row full complement cylindrical roller bearing, NNCF design

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	480 mm
Width	218 mm

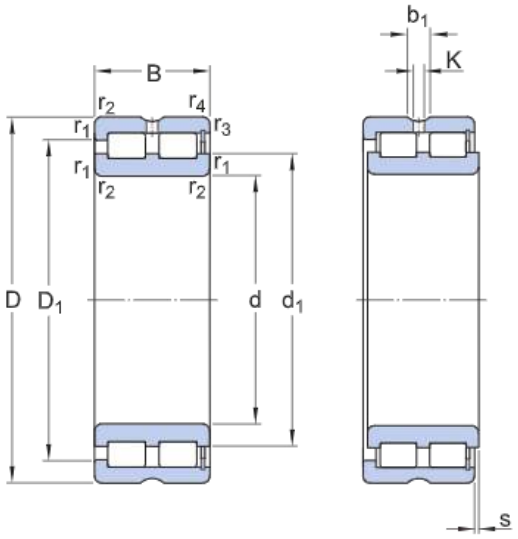
Performance

Basic dynamic load rating	3 690 kN
Basic static load rating	6 950 kN
Limiting speed	700 r/min
Reference speed	560 r/min

Properties

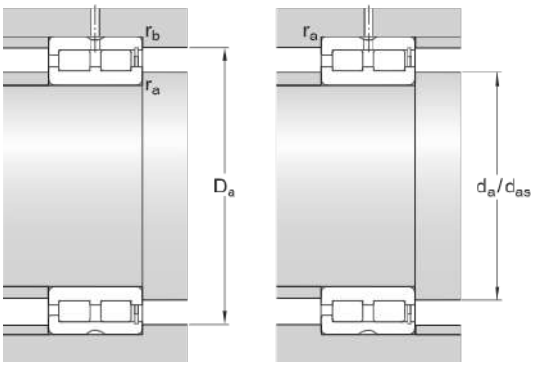
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	320 mm	Bore diameter
D	480 mm	Outside diameter
B	218 mm	Width
d_1	≈ 370 mm	Shoulder diameter inner ring
D_1	≈ 434 mm	Shoulder diameter outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 339 mm	Abutment diameter shaft
d_{as}	360 mm	Abutment diameter shaft
D_a	max. 462 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 690 kN
Basic static load rating	C_0	6 950 kN
Fatigue load limit	P_u	620 kN
Reference speed		560 r/min
Limiting speed		700 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	135 kg

NNCF 5068 CV

Double row full complement cylindrical roller bearing, NNCF design

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	520 mm
Width	243 mm

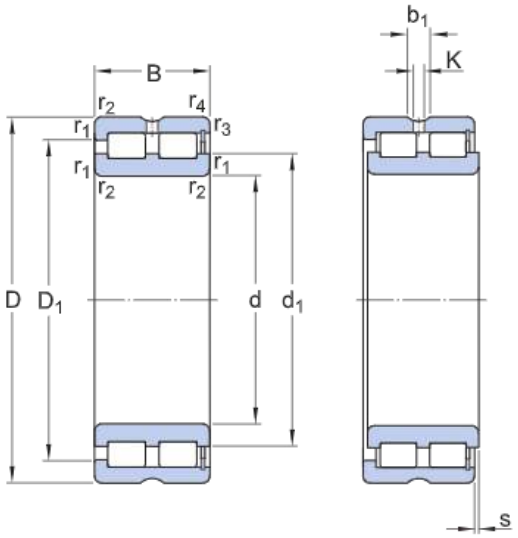
Performance

Basic dynamic load rating	4 400 kN
Basic static load rating	8 300 kN
Limiting speed	670 r/min
Reference speed	530 r/min

Properties

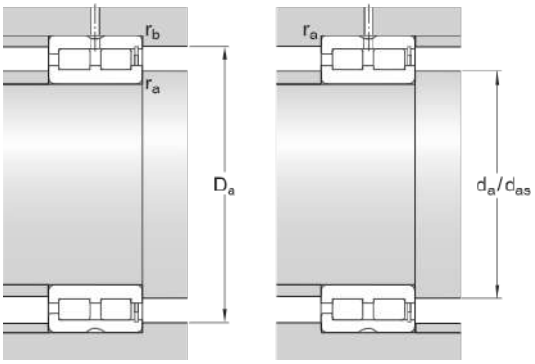
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	340 mm	Bore diameter
D	520 mm	Outside diameter
B	243 mm	Width
d_1	≈ 395 mm	Shoulder diameter inner ring
D_1	≈ 468 mm	Shoulder diameter outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 362 mm	Abutment diameter shaft
d_{as}	384 mm	Abutment diameter shaft
D_a	max. 500 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 400 kN
Basic static load rating	C_0	8 300 kN
Fatigue load limit	P_u	710 kN
Reference speed		530 r/min
Limiting speed		670 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	185 kg

NNCF 5072 CV

Double row full complement cylindrical roller bearing, NNCF design

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	360 mm
Outside diameter	540 mm
Width	243 mm

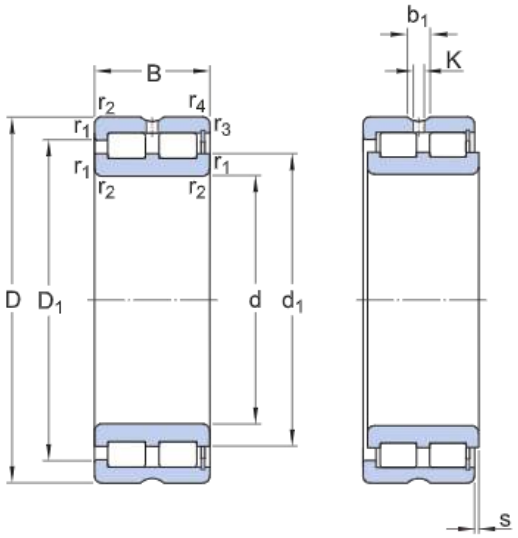
Performance

Basic dynamic load rating	4 180 kN
Basic static load rating	8 650 kN
Limiting speed	630 r/min
Reference speed	500 r/min

Properties

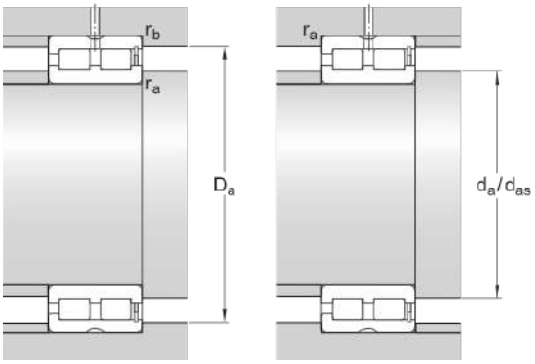
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	360 mm	Bore diameter
D	540 mm	Outside diameter
B	243 mm	Width
d_1	≈ 412 mm	Shoulder diameter inner ring
D_1	≈ 486 mm	Shoulder diameter outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 383 mm	Abutment diameter shaft
d_{as}	402 mm	Abutment diameter shaft
D_a	max. 519 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 180 kN
Basic static load rating	C_0	8 650 kN
Fatigue load limit	P_u	735 kN
Reference speed		500 r/min
Limiting speed		630 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	195 kg

NNCF 5076 CV

Double row full complement cylindrical roller bearing, NNCF design

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	560 mm
Width	243 mm

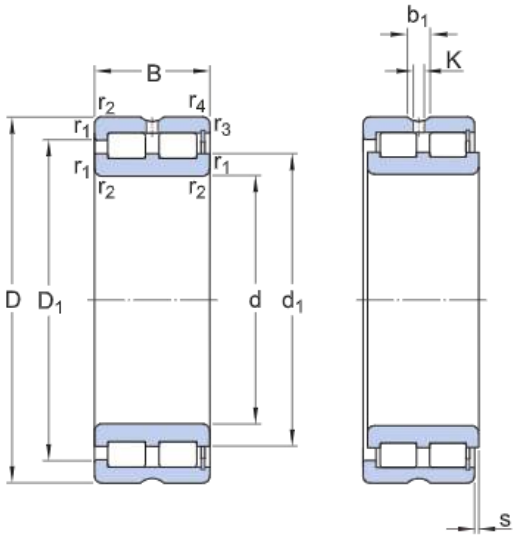
Performance

Basic dynamic load rating	4 680 kN
Basic static load rating	9 150 kN
Limiting speed	600 r/min
Reference speed	480 r/min

Properties

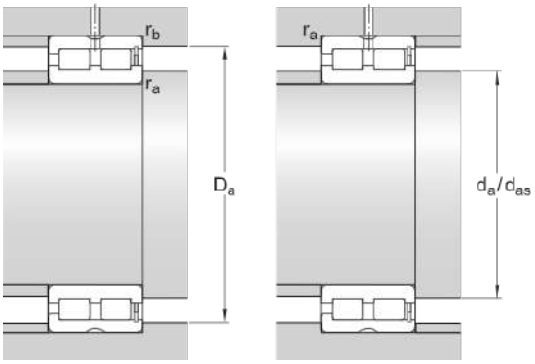
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	380 mm	Bore diameter
D	560 mm	Outside diameter
B	243 mm	Width
d_1	≈ 485 mm	Shoulder diameter inner ring
D_1	≈ 531 mm	Shoulder diameter outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 403 mm	Abutment diameter shaft
d_{as}	417 mm	Abutment diameter shaft
D_a	max. 539 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 680 kN
Basic static load rating	C_0	9 150 kN
Fatigue load limit	P_u	750 kN
Reference speed		480 r/min
Limiting speed		600 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	200 kg

NNCF 5080 CV

Double row full complement cylindrical roller bearing, NNCF design

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the inner ring and one flange on the outer ring, NNCF design bearings can accommodate limited axial displacement in one direction. A retaining ring in the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	600 mm
Width	272 mm

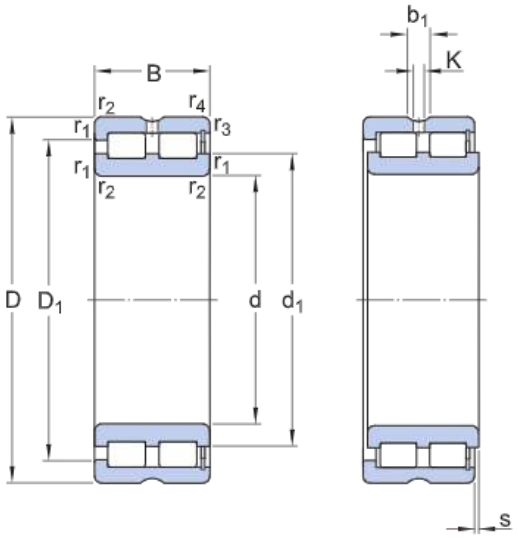
Performance

Basic dynamic load rating	5 500 kN
Basic static load rating	11 000 kN
Limiting speed	560 r/min
Reference speed	450 r/min

Properties

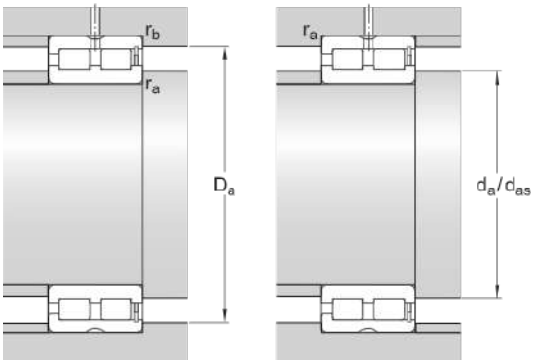
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	1
Number of rows	2
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	400 mm	Bore diameter
D	600 mm	Outside diameter
B	272 mm	Width
d_1	≈ 460 mm	Shoulder diameter inner ring
D_1	≈ 540 mm	Shoulder diameter outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension (open bearings)
$r_{3,4}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 424 mm	Abutment diameter shaft
d_{as}	442 mm	Abutment diameter shaft
D_a	max. 578 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	5 500 kN
Basic static load rating	C_0	11 000 kN
Fatigue load limit	P_u	900 kN
Reference speed		450 r/min
Limiting speed		560 r/min
Minimum load factor	k_r	0.5

Mass

Mass bearing	270 kg

NNCL 4830 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	190 mm
Width	40 mm

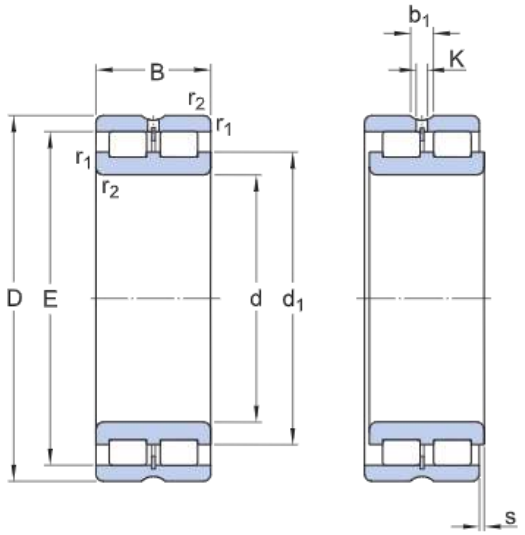
Performance

Basic dynamic load rating	255 kN
Basic static load rating	585 kN
Limiting speed	1 800 r/min
Reference speed	1 500 r/min

Properties

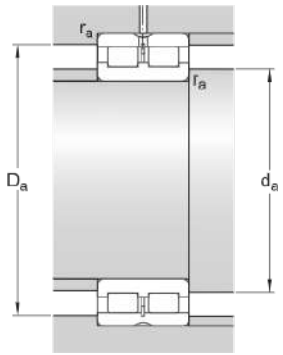
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	150 mm	Bore diameter
D	190 mm	Outside diameter
B	40 mm	Width
d_1	≈ 166 mm	Shoulder diameter inner ring
E	178.3 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 156 mm	Abutment diameter shaft
D_a	max. 184 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	255 kN
Basic static load rating	C_0	585 kN
Fatigue load limit	P_u	60 kN
Reference speed		1 500 r/min
Limiting speed		1 800 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	2.7 kg

NNCL 4832 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	200 mm
Width	40 mm

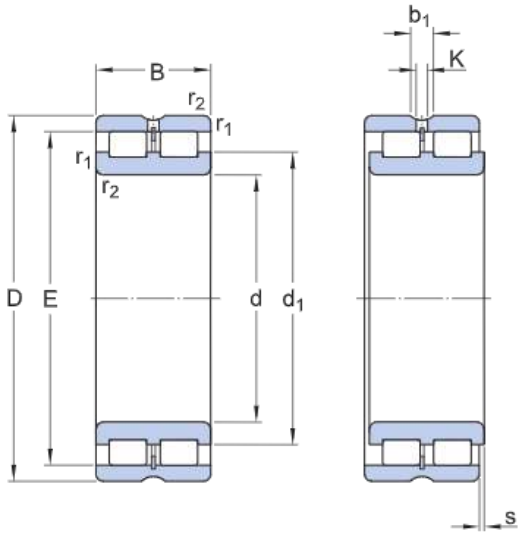
Performance

Basic dynamic load rating	260 kN
Basic static load rating	610 kN
Limiting speed	1 700 r/min
Reference speed	1 400 r/min

Properties

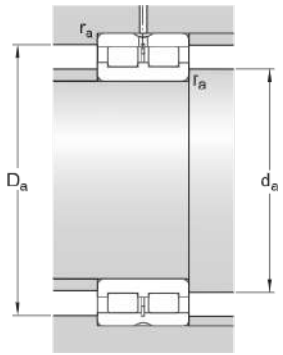
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	160 mm	Bore diameter
D	200 mm	Outside diameter
B	40 mm	Width
d_1	≈ 174 mm	Shoulder diameter inner ring
E	186.9 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 166 mm	Abutment diameter shaft
D_a	max. 194 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	260 kN
Basic static load rating	C_0	610 kN
Fatigue load limit	P_u	62 kN
Reference speed		1 400 r/min
Limiting speed		1 700 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	2.9 kg

NNCL 4834 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	215 mm
Width	45 mm

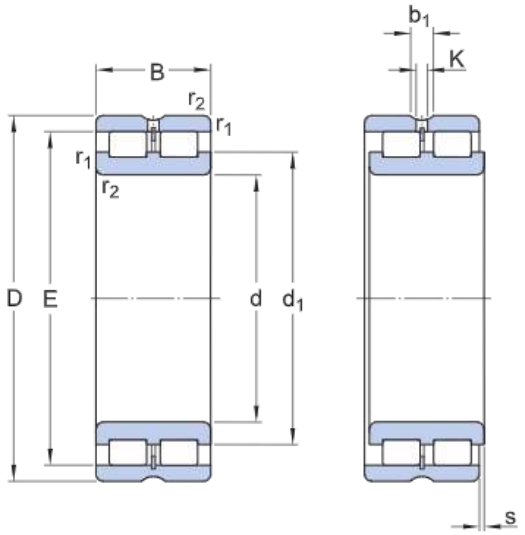
Performance

Basic dynamic load rating	286 kN
Basic static load rating	655 kN
Limiting speed	1 600 r/min
Reference speed	1 300 r/min

Properties

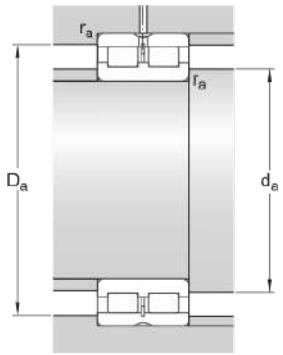
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	170 mm	Bore diameter
D	215 mm	Outside diameter
B	45 mm	Width
d_1	≈ 187 mm	Shoulder diameter inner ring
E	201.3 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 176 mm	Abutment diameter shaft
D_a	max. 209 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	286 kN
Basic static load rating	C_0	655 kN
Fatigue load limit	P_u	65.5 kN
Reference speed		1 300 r/min
Limiting speed		1 600 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	3.9 kg

NNCL 4836 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	225 mm
Width	45 mm

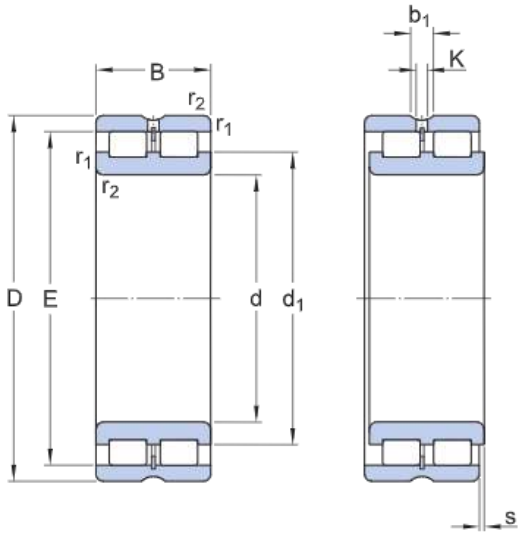
Performance

Basic dynamic load rating	297 kN
Basic static load rating	695 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

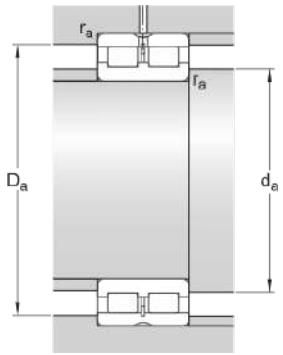
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	180 mm	Bore diameter
D	225 mm	Outside diameter
B	45 mm	Width
d_1	≈ 200 mm	Shoulder diameter inner ring
E	214.1 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 186 mm	Abutment diameter shaft
D_a	max. 219 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	297 kN
Basic static load rating	C_0	695 kN
Fatigue load limit	P_u	69.5 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	4.1 kg

NNCL 4838 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	240 mm
Width	50 mm

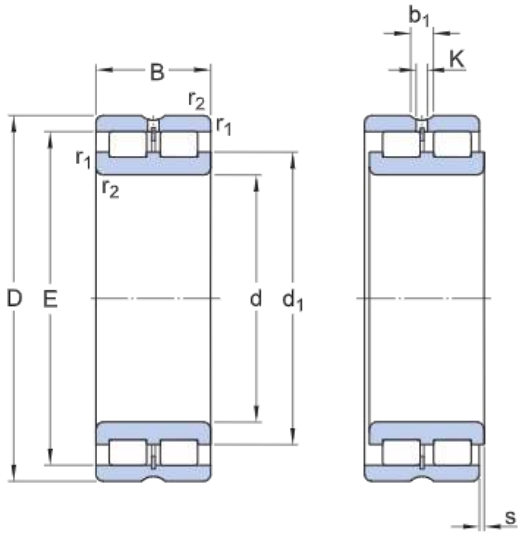
Performance

Basic dynamic load rating	358 kN
Basic static load rating	750 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

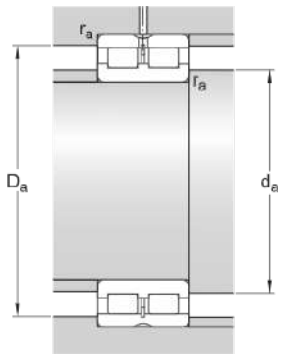
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	190 mm	Bore diameter
D	240 mm	Outside diameter
B	50 mm	Width
d_1	≈ 209 mm	Shoulder diameter inner ring
E	225 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 197 mm	Abutment diameter shaft
D_a	max. 233 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	358 kN
Basic static load rating	C_0	750 kN
Fatigue load limit	P_u	76.5 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	5.3 kg

NNCL 4840 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	250 mm
Width	50 mm

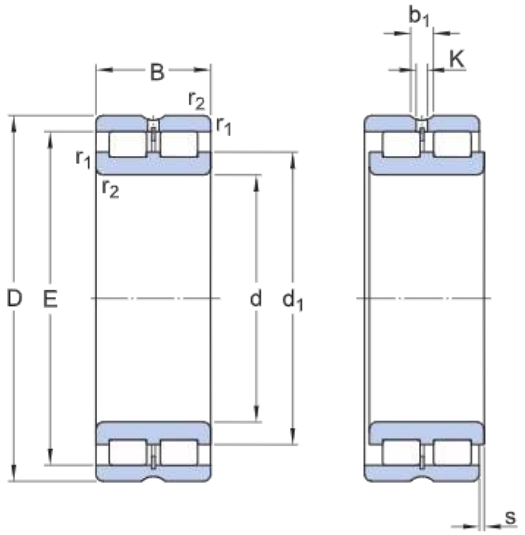
Performance

Basic dynamic load rating	369 kN
Basic static load rating	800 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

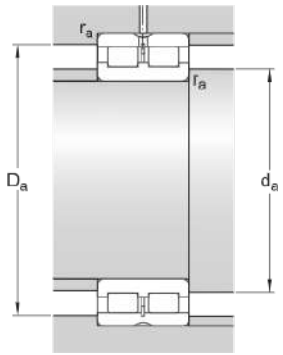
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	200 mm	Bore diameter
D	250 mm	Outside diameter
B	50 mm	Width
d_1	≈ 220 mm	Shoulder diameter inner ring
E	235.5 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 207 mm	Abutment diameter shaft
D_a	max. 243 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	369 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	80 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	5.7 kg

NNCL 4844 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	270 mm
Width	50 mm

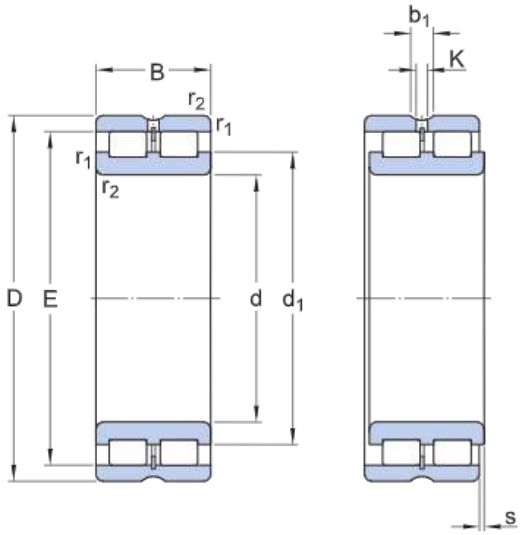
Performance

Basic dynamic load rating	380 kN
Basic static load rating	865 kN
Limiting speed	1 200 r/min
Reference speed	1 000 r/min

Properties

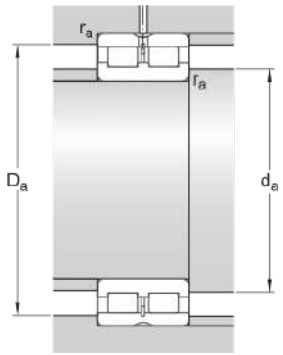
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	220 mm	Bore diameter
D	270 mm	Outside diameter
B	50 mm	Width
d_1	≈ 241 mm	Shoulder diameter inner ring
E	256.5 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 227 mm	Abutment diameter shaft
D_a	max. 263 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	380 kN
Basic static load rating	C_0	865 kN
Fatigue load limit	P_u	85 kN
Reference speed		1 000 r/min
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	6.2 kg

NNCL 4848 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	300 mm
Width	60 mm

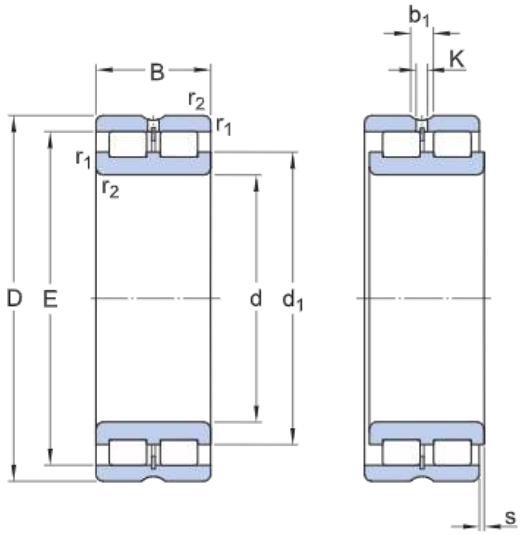
Performance

Basic dynamic load rating	539 kN
Basic static load rating	1 290 kN
Limiting speed	1 100 r/min
Reference speed	900 r/min

Properties

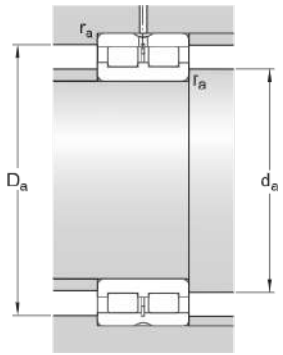
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	240 mm	Bore diameter
D	300 mm	Outside diameter
B	60 mm	Width
d_1	≈ 261 mm	Shoulder diameter inner ring
E	281.9 mm	Raceway diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 249 mm	Abutment diameter shaft
D_a	max. 292 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	539 kN
Basic static load rating	C_0	1 290 kN
Fatigue load limit	P_u	125 kN
Reference speed		900 r/min
Limiting speed		1 100 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	9.8 kg

NNCL 4852 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	320 mm
Width	60 mm

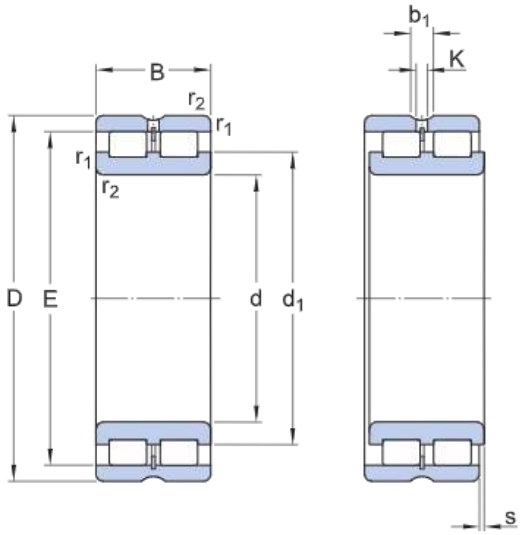
Performance

Basic dynamic load rating	561 kN
Basic static load rating	1 400 kN
Limiting speed	1 000 r/min
Reference speed	800 r/min

Properties

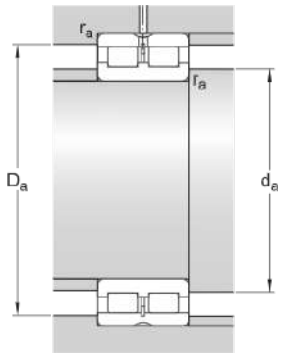
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	260 mm	Bore diameter
D	320 mm	Outside diameter
B	60 mm	Width
d_1	≈ 283.5 mm	Shoulder diameter inner ring
E	304.2 mm	Raceway diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 269 mm	Abutment diameter shaft
D_a	max. 311 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	561 kN
Basic static load rating	C_0	1 400 kN
Fatigue load limit	P_u	132 kN
Reference speed		800 r/min
Limiting speed		1 000 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	10.6 kg

NNCL 4856 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	350 mm
Width	69 mm

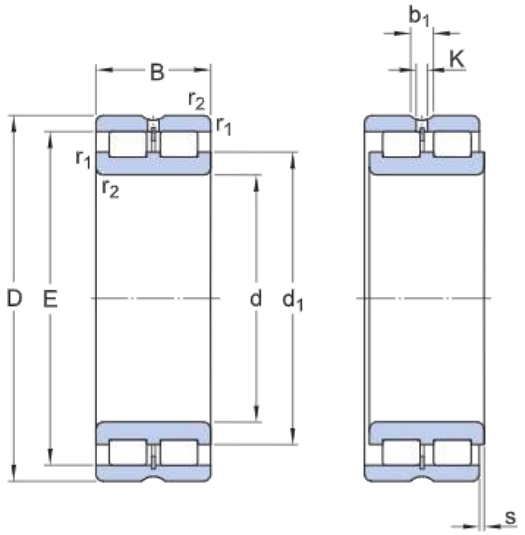
Performance

Basic dynamic load rating	737 kN
Basic static load rating	1 860 kN
Limiting speed	950 r/min
Reference speed	750 r/min

Properties

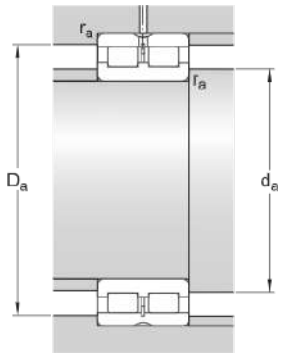
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	280 mm	Bore diameter
D	350 mm	Outside diameter
B	69 mm	Width
d_1	≈ 308 mm	Shoulder diameter inner ring
E	332.4 mm	Raceway diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 290 mm	Abutment diameter shaft
D_a	max. 341 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	737 kN
Basic static load rating	C_0	1 860 kN
Fatigue load limit	P_u	173 kN
Reference speed		750 r/min
Limiting speed		950 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	15.6 kg

NNCL 4860 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	380 mm
Width	80 mm

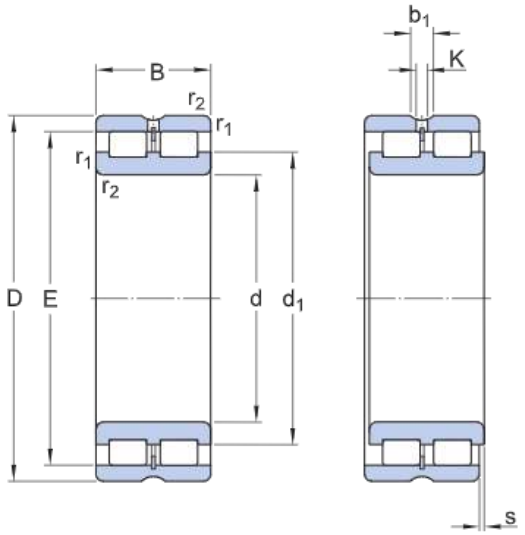
Performance

Basic dynamic load rating	858 kN
Basic static load rating	2 120 kN
Limiting speed	850 r/min
Reference speed	700 r/min

Properties

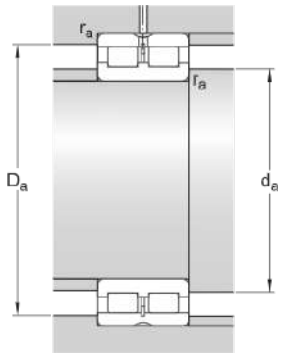
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	300 mm	Bore diameter
D	380 mm	Outside diameter
B	80 mm	Width
d_1	≈ 330 mm	Shoulder diameter inner ring
E	356.7 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 310 mm	Abutment diameter shaft
D_a	max. 370 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	858 kN
Basic static load rating	C_0	2 120 kN
Fatigue load limit	P_u	196 kN
Reference speed		700 r/min
Limiting speed		850 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	22 kg

NNCL 4864 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	400 mm
Width	80 mm

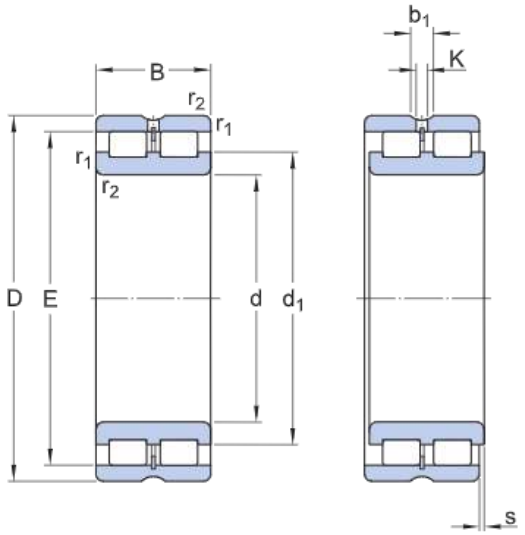
Performance

Basic dynamic load rating	897 kN
Basic static load rating	2 280 kN
Limiting speed	800 r/min
Reference speed	630 r/min

Properties

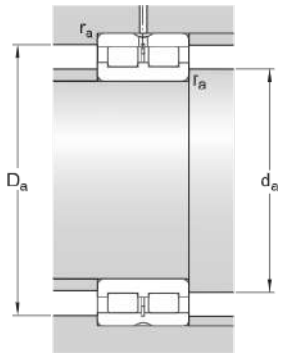
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	320 mm	Bore diameter
D	400 mm	Outside diameter
B	80 mm	Width
d_1	≈ 352 mm	Shoulder diameter inner ring
E	379.7 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 331 mm	Abutment diameter shaft
D_a	max. 390 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	897 kN
Basic static load rating	C_0	2 280 kN
Fatigue load limit	P_u	208 kN
Reference speed		630 r/min
Limiting speed		800 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	23 kg

NNCL 4868 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	420 mm
Width	80 mm

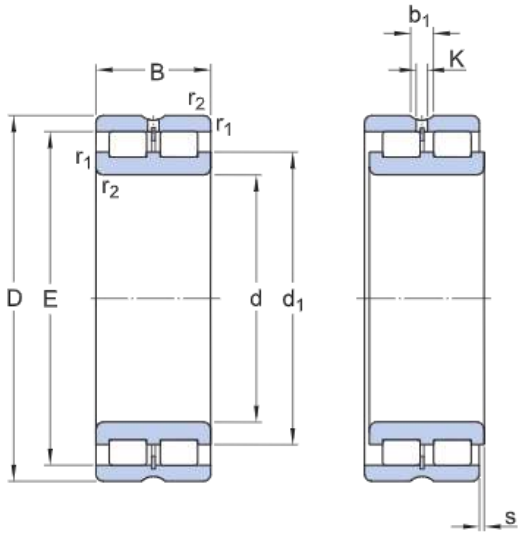
Performance

Basic dynamic load rating	913 kN
Basic static load rating	2 400 kN
Limiting speed	750 r/min
Reference speed	600 r/min

Properties

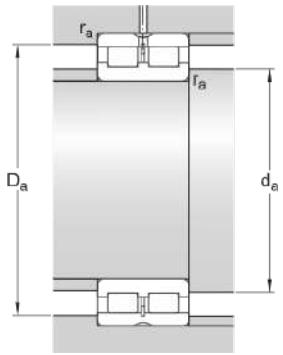
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	340 mm	Bore diameter
D	420 mm	Outside diameter
B	80 mm	Width
d_1	≈ 368 mm	Shoulder diameter inner ring
E	396.9 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 351 mm	Abutment diameter shaft
D_a	max. 410 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	913 kN
Basic static load rating	C_0	2 400 kN
Fatigue load limit	P_u	216 kN
Reference speed		600 r/min
Limiting speed		750 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	25.5 kg

NNCL 4872 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	360 mm
Outside diameter	440 mm
Width	80 mm

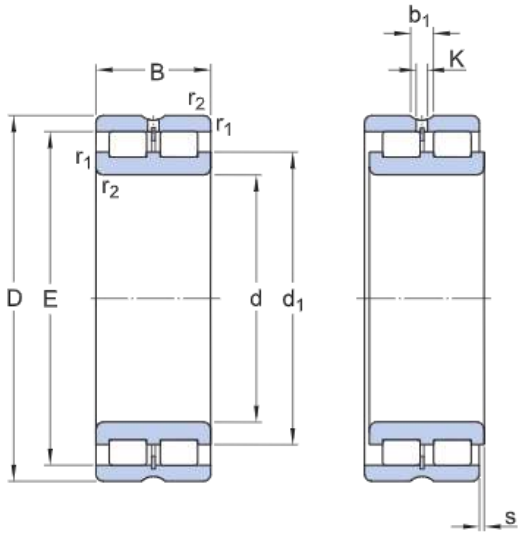
Performance

Basic dynamic load rating	935 kN
Basic static load rating	2 550 kN
Limiting speed	700 r/min
Reference speed	560 r/min

Properties

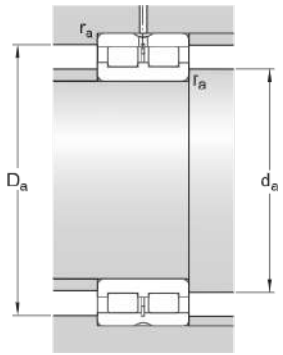
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	360 mm	Bore diameter
D	440 mm	Outside diameter
B	80 mm	Width
d_1	≈ 391 mm	Shoulder diameter inner ring
E	419.8 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 371 mm	Abutment diameter shaft
D_a	max. 429 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	935 kN
Basic static load rating	C_0	2 550 kN
Fatigue load limit	P_u	224 kN
Reference speed		560 r/min
Limiting speed		700 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	26 kg

NNCL 4876 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	480 mm
Width	100 mm

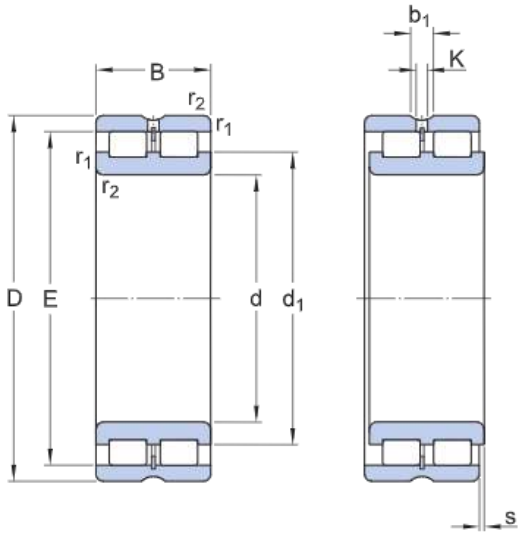
Performance

Basic dynamic load rating	1 400 kN
Basic static load rating	3 650 kN
Limiting speed	670 r/min
Reference speed	530 r/min

Properties

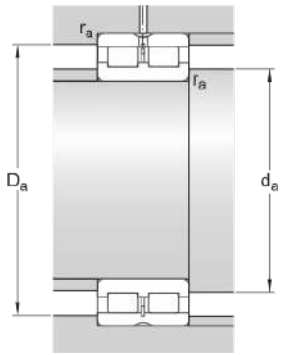
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	380 mm	Bore diameter
D	480 mm	Outside diameter
B	100 mm	Width
d_1	≈ 419 mm	Shoulder diameter inner ring
E	455.8 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 391 mm	Abutment diameter shaft
D_a	max. 469 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 400 kN
Basic static load rating	C_0	3 650 kN
Fatigue load limit	P_u	315 kN
Reference speed		530 r/min
Limiting speed		670 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	44 kg

NNCL 4880 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	500 mm
Width	100 mm

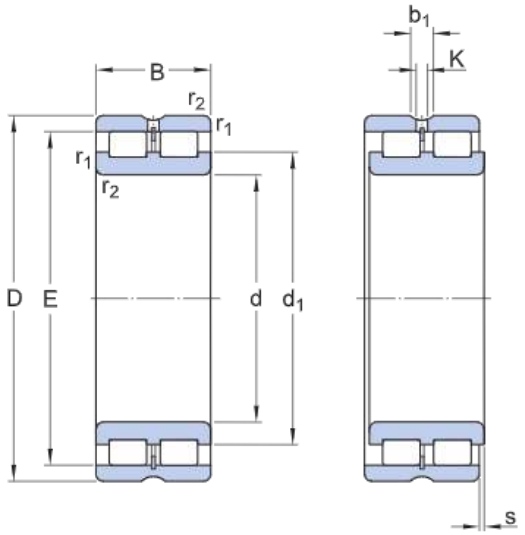
Performance

Basic dynamic load rating	1 420 kN
Basic static load rating	3 750 kN
Limiting speed	630 r/min
Reference speed	500 r/min

Properties

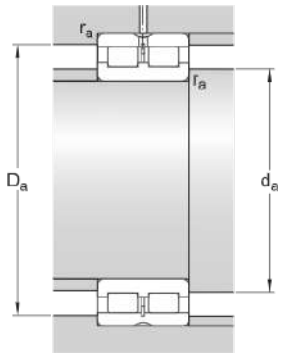
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	400 mm	Bore diameter
D	500 mm	Outside diameter
B	100 mm	Width
d_1	≈ 434 mm	Shoulder diameter inner ring
E	470.59 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 411 mm	Abutment diameter shaft
D_a	max. 488 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 420 kN

Basic static load rating	C_0	3 750 kN
Fatigue load limit	P_u	325 kN
Reference speed		500 r/min
Limiting speed		630 r/min
Minimum load factor	k_r	0.2

Mass

Mass bearing	45.9 kg

NNCL 4912 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	60 mm
Outside diameter	85 mm
Width	25 mm

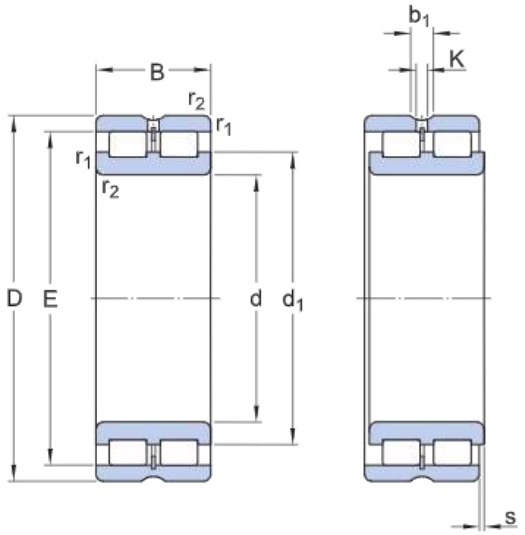
Performance

Basic dynamic load rating	78.1 kN
Basic static load rating	137 kN
Limiting speed	4 500 r/min
Reference speed	3 600 r/min

Properties

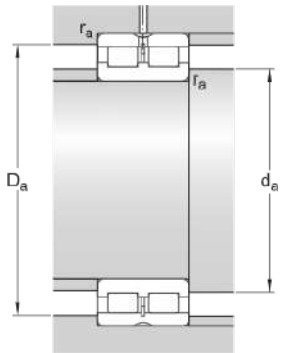
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	60 mm	Bore diameter
D	85 mm	Outside diameter
B	25 mm	Width
d_1	≈ 70.5 mm	Shoulder diameter inner ring
E	77.51 mm	Raceway diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 64.7 mm	Abutment diameter shaft
D_a	max. 80.5 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	78.1 kN
Basic static load rating	C_0	137 kN
Fatigue load limit	P_u	14.3 kN
Reference speed		3 600 r/min
Limiting speed		4 500 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.47 kg

NNCL 4914 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	100 mm
Width	30 mm

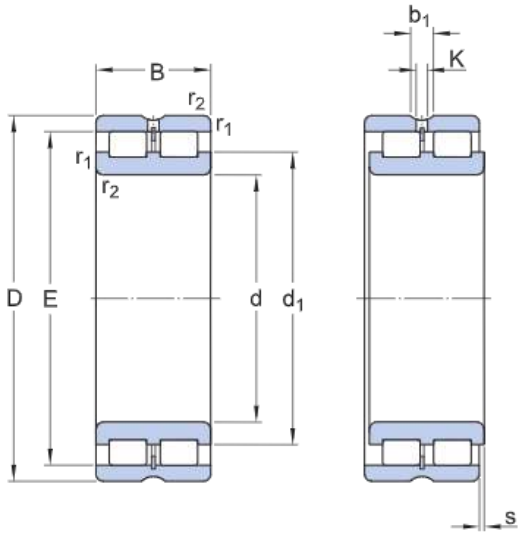
Performance

Basic dynamic load rating	114 kN
Basic static load rating	193 kN
Limiting speed	3 800 r/min
Reference speed	3 000 r/min

Properties

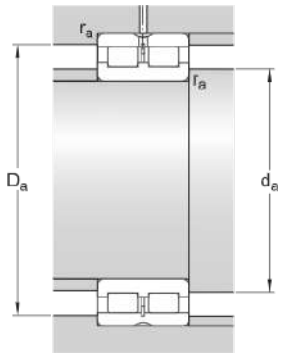
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	70 mm	Bore diameter
D	100 mm	Outside diameter
B	30 mm	Width
d_1	≈ 83 mm	Shoulder diameter inner ring
E	91.87 mm	Raceway diameter outer ring
b_1	4.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 75.2 mm	Abutment diameter shaft
D_a	max. 95 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	193 kN
Fatigue load limit	P_u	22.4 kN
Reference speed		3 000 r/min
Limiting speed		3 800 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.75 kg

NNCL 4916 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	110 mm
Width	30 mm

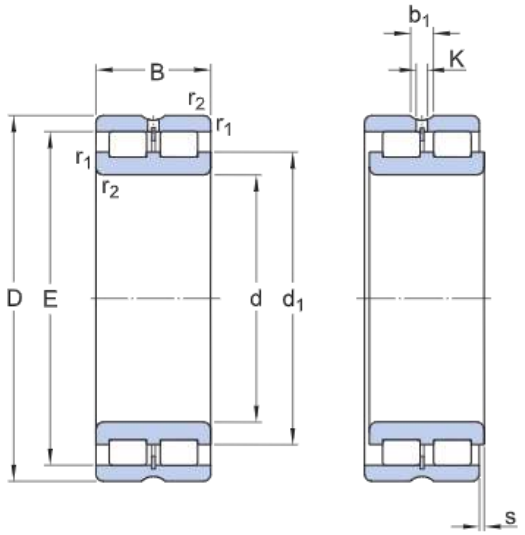
Performance

Basic dynamic load rating	121 kN
Basic static load rating	216 kN
Limiting speed	3 400 r/min
Reference speed	2 600 r/min

Properties

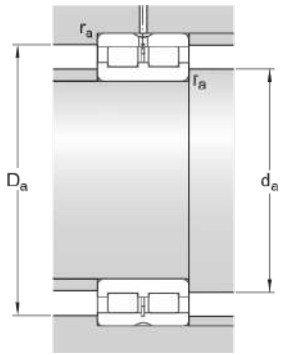
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	80 mm	Bore diameter
D	110 mm	Outside diameter
B	30 mm	Width
d_1	≈ 92 mm	Shoulder diameter inner ring
E	100.78 mm	Raceway diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 84.8 mm	Abutment diameter shaft
D_a	max. 105.3 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	121 kN

Basic static load rating	C_0	216 kN
Fatigue load limit	P_u	25 kN
Reference speed		2 600 r/min
Limiting speed		3 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	0.85 kg

NNCL 4918 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	90 mm
Outside diameter	125 mm
Width	35 mm

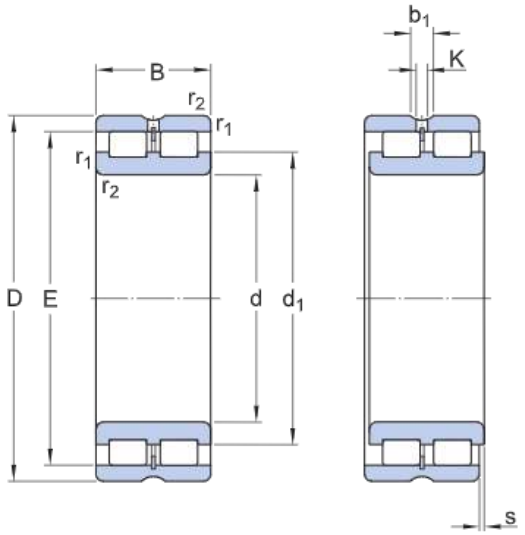
Performance

Basic dynamic load rating	161 kN
Basic static load rating	300 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min

Properties

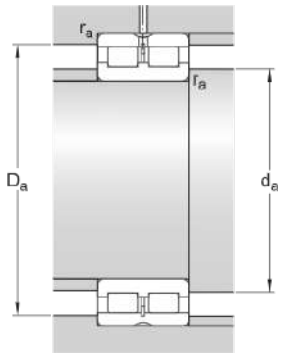
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	90 mm	Bore diameter
D	125 mm	Outside diameter
B	35 mm	Width
d_1	≈ 103 mm	Shoulder diameter inner ring
E	115.2 mm	Raceway diameter outer ring
b_1	5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 95.4 mm	Abutment diameter shaft
D_a	max. 119.7 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	161 kN
Basic static load rating	C_0	300 kN
Fatigue load limit	P_u	35.5 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	1.3 kg

NNCL 4922 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	150 mm
Width	40 mm

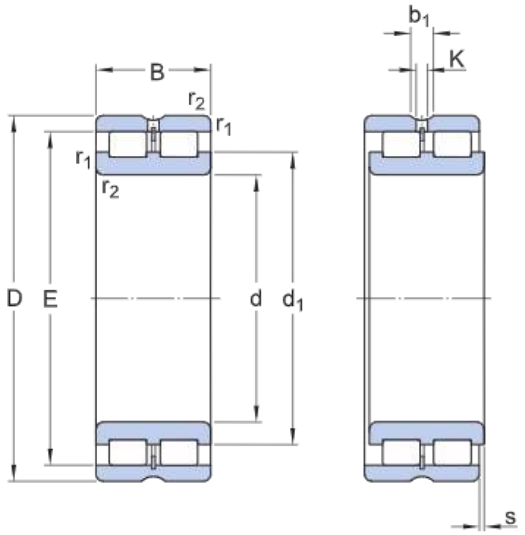
Performance

Basic dynamic load rating	220 kN
Basic static load rating	430 kN
Limiting speed	2 400 r/min
Reference speed	1 900 r/min

Properties

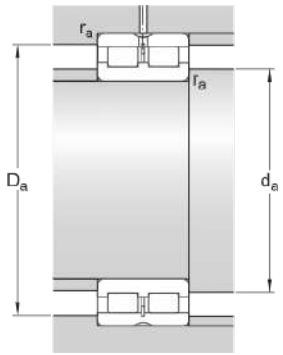
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	110 mm	Bore diameter
D	150 mm	Outside diameter
B	40 mm	Width
d_1	≈ 125 mm	Shoulder diameter inner ring
E	138.2 mm	Raceway diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 116 mm	Abutment diameter shaft
D_a	max. 144 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	220 kN
Basic static load rating	C_0	430 kN
Fatigue load limit	P_u	49 kN
Reference speed		1 900 r/min
Limiting speed		2 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	2.1 kg

NNCL 4924 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	165 mm
Width	45 mm

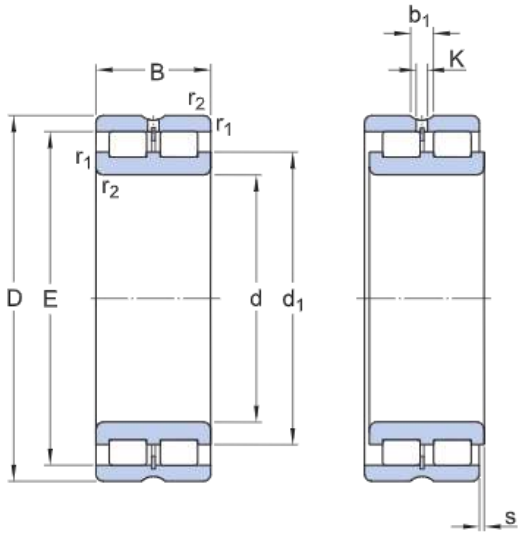
Performance

Basic dynamic load rating	242 kN
Basic static load rating	480 kN
Limiting speed	2 200 r/min
Reference speed	1 700 r/min

Properties

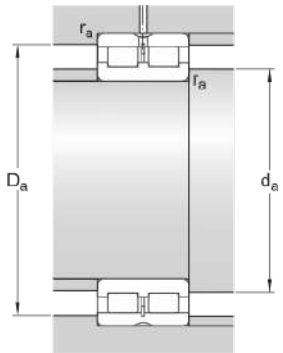
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	165 mm	Outside diameter
B	45 mm	Width
d_1	≈ 139 mm	Shoulder diameter inner ring
E	153.55 mm	Raceway diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 126 mm	Abutment diameter shaft
D_a	max. 159 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	242 kN

Basic static load rating	C_0	480 kN
Fatigue load limit	P_u	53 kN
Reference speed		1 700 r/min
Limiting speed		2 200 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	2.85 kg

NNCL 4926 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	180 mm
Width	50 mm

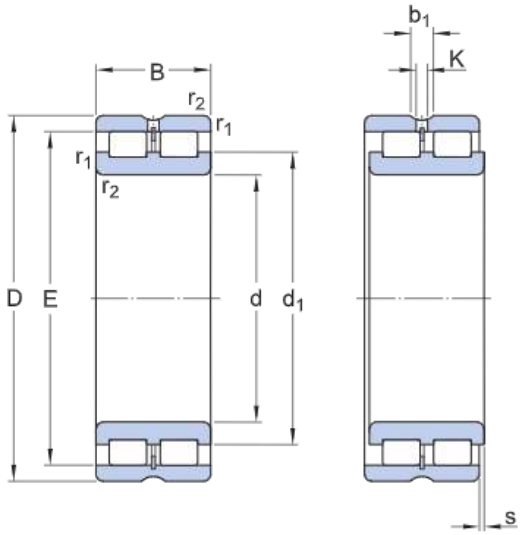
Performance

Basic dynamic load rating	297 kN
Basic static load rating	530 kN
Limiting speed	2 000 r/min
Reference speed	1 600 r/min

Properties

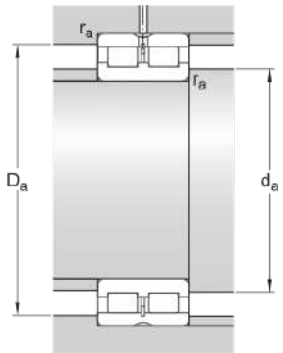
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	130 mm	Bore diameter
D	180 mm	Outside diameter
B	50 mm	Width
d_1	≈ 149.5 mm	Shoulder diameter inner ring
E	165.4 mm	Raceway diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 138 mm	Abutment diameter shaft
D_a	max. 173 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	297 kN
Basic static load rating	C_0	530 kN
Fatigue load limit	P_u	60 kN
Reference speed		1 600 r/min
Limiting speed		2 000 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	3.8 kg

NNCL 4928 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	190 mm
Width	50 mm

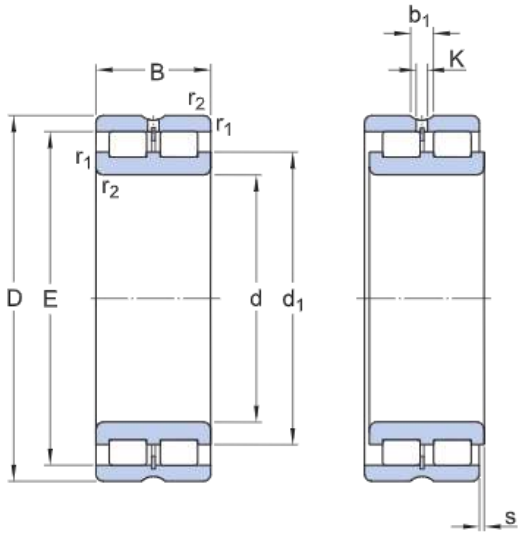
Performance

Basic dynamic load rating	308 kN
Basic static load rating	570 kN
Limiting speed	1 900 r/min
Reference speed	1 500 r/min

Properties

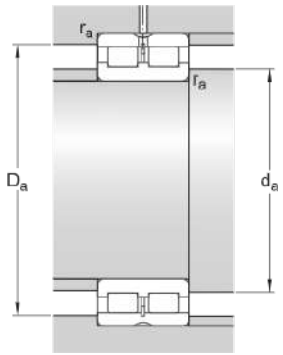
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	140 mm	Bore diameter
D	190 mm	Outside diameter
B	50 mm	Width
d_1	≈ 160 mm	Shoulder diameter inner ring
E	175.9 mm	Raceway diameter outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 148 mm	Abutment diameter shaft
D_a	max. 182 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	308 kN
Basic static load rating	C_0	570 kN
Fatigue load limit	P_u	63 kN
Reference speed		1 500 r/min
Limiting speed		1 900 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	4.1 kg

NNCL 4930 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	210 mm
Width	60 mm

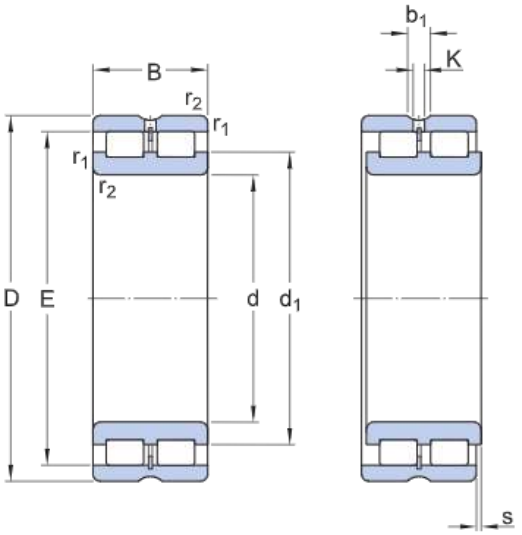
Performance

Basic dynamic load rating	429 kN
Basic static load rating	830 kN
Limiting speed	1 700 r/min
Reference speed	1 400 r/min

Properties

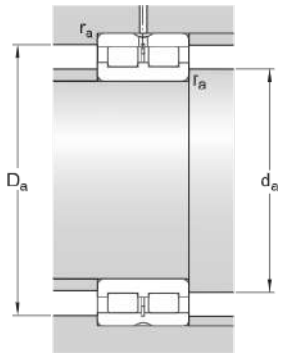
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	150 mm	Bore diameter
D	210 mm	Outside diameter
B	60 mm	Width
d_1	≈ 171.5 mm	Shoulder diameter inner ring
E	192.77 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 159 mm	Abutment diameter shaft
D_a	max. 201 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	429 kN

Basic static load rating	C_0	830 kN
Fatigue load limit	P_u	91.5 kN
Reference speed		1 400 r/min
Limiting speed		1 700 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	6.45 kg

NNCL 4932 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	220 mm
Width	60 mm

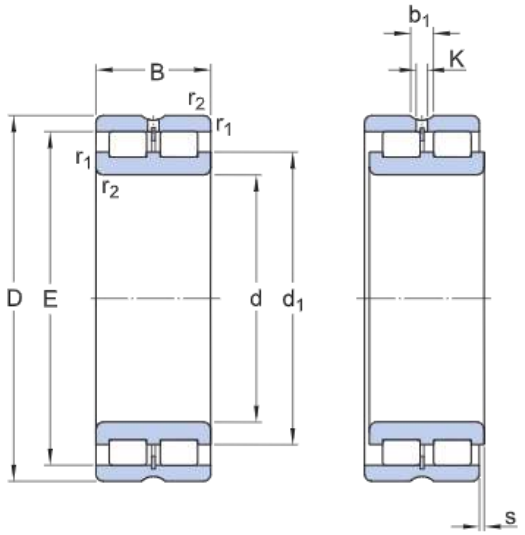
Performance

Basic dynamic load rating	446 kN
Basic static load rating	915 kN
Limiting speed	1 600 r/min
Reference speed	1 300 r/min

Properties

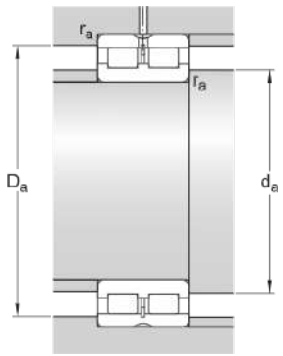
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	160 mm	Bore diameter
D	220 mm	Outside diameter
B	60 mm	Width
d_1	≈ 185 mm	Shoulder diameter inner ring
E	206.16 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 170 mm	Abutment diameter shaft
D_a	max. 211 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	446 kN
Basic static load rating	C_0	915 kN

Fatigue load limit	P_u	96.5 kN
Reference speed		1 300 r/min
Limiting speed		1 600 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	6.8 kg

NNCL 4934 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	230 mm
Width	60 mm

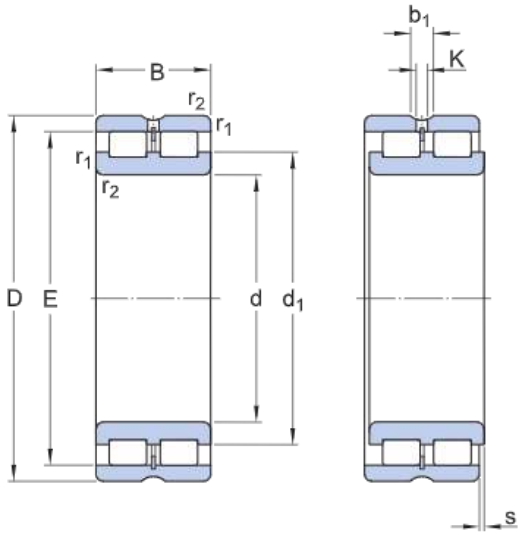
Performance

Basic dynamic load rating	457 kN
Basic static load rating	950 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

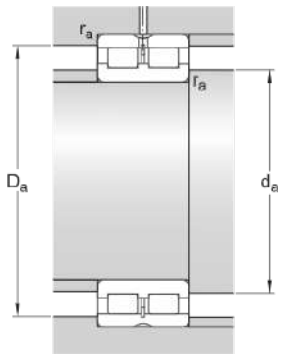
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	170 mm	Bore diameter
D	230 mm	Outside diameter
B	60 mm	Width
d_1	≈ 194 mm	Shoulder diameter inner ring
E	215.08 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 180 mm	Abutment diameter shaft
D_a	max. 220 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	457 kN
Basic static load rating	C_0	950 kN

Fatigue load limit	P_u	100 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	7.1 kg

NNCL 4936 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	250 mm
Width	69 mm

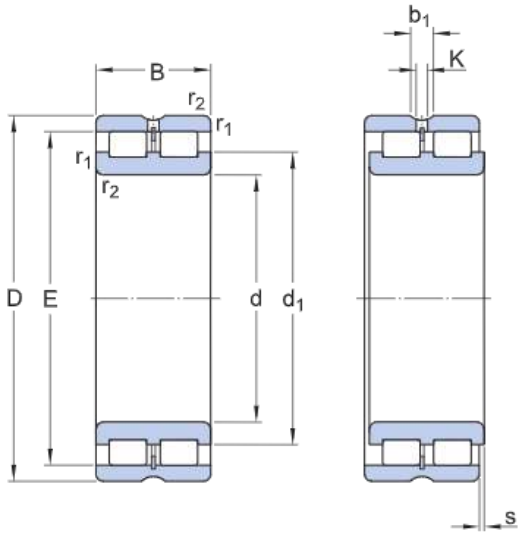
Performance

Basic dynamic load rating	594 kN
Basic static load rating	1 220 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

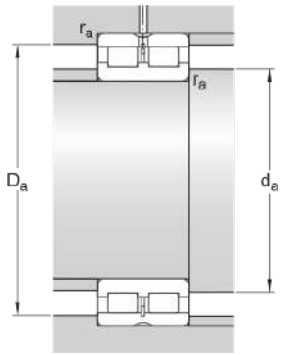
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	180 mm	Bore diameter
D	250 mm	Outside diameter
B	69 mm	Width
d_1	≈ 206 mm	Shoulder diameter inner ring
E	230.5 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 190 mm	Abutment diameter shaft
D_a	max. 240 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	594 kN
Basic static load rating	C_0	1 220 kN
Fatigue load limit	P_u	127 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	10.5 kg

NNCL 4938 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	260 mm
Width	69 mm

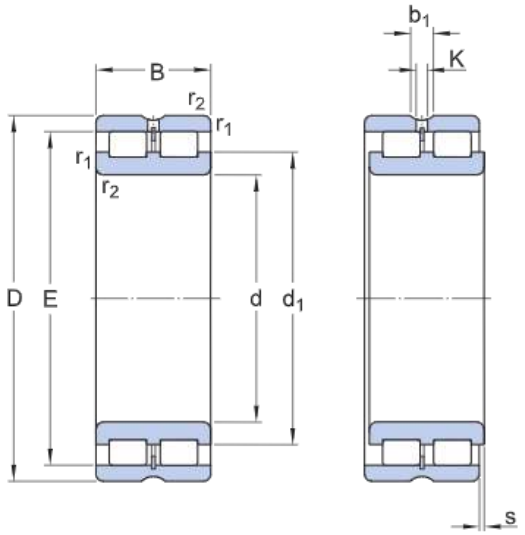
Performance

Basic dynamic load rating	605 kN
Basic static load rating	1 290 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

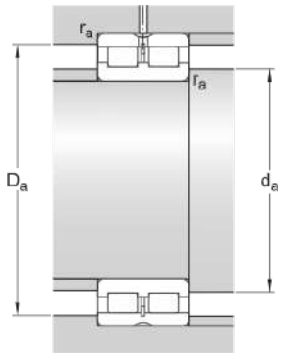
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	190 mm	Bore diameter
D	260 mm	Outside diameter
B	69 mm	Width
d_1	≈ 216 mm	Shoulder diameter inner ring
E	240.7 mm	Raceway diameter outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 201 mm	Abutment diameter shaft
D_a	max. 250 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	605 kN
Basic static load rating	C_0	1 290 kN
Fatigue load limit	P_u	132 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	10.9 kg

NNCL 4940 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	280 mm
Width	80 mm

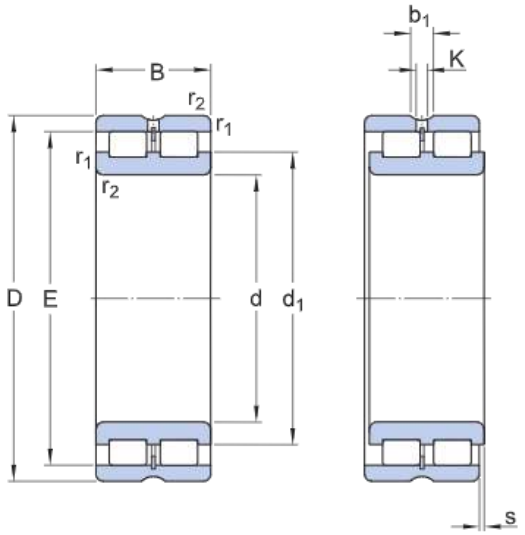
Performance

Basic dynamic load rating	704 kN
Basic static load rating	1 500 kN
Limiting speed	1 300 r/min
Reference speed	1 000 r/min

Properties

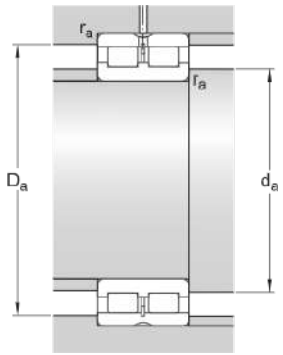
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	200 mm	Bore diameter
D	280 mm	Outside diameter
B	80 mm	Width
d_1	≈ 233 mm	Shoulder diameter inner ring
E	259.34 mm	Raceway diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 211 mm	Abutment diameter shaft
D_a	max. 269 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	704 kN

Basic static load rating	C_0	1 500 kN
Fatigue load limit	P_u	153 kN
Reference speed		1 000 r/min
Limiting speed		1 300 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	15.3 kg

NNCL 4944 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	300 mm
Width	80 mm

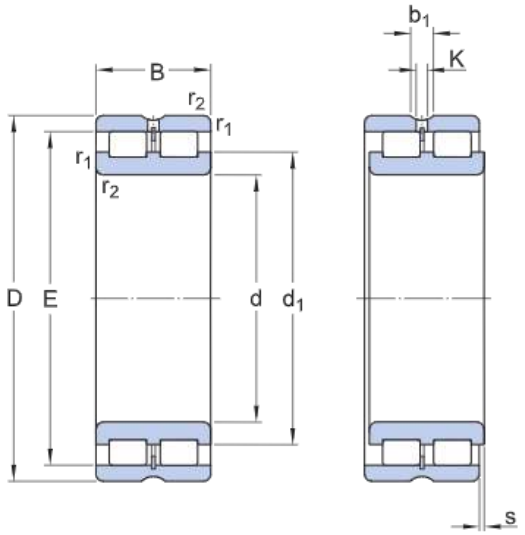
Performance

Basic dynamic load rating	737 kN
Basic static load rating	1 600 kN
Limiting speed	1 200 r/min
Reference speed	950 r/min

Properties

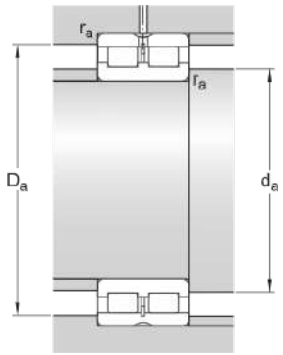
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	220 mm	Bore diameter
D	300 mm	Outside diameter
B	80 mm	Width
d_1	≈ 248 mm	Shoulder diameter inner ring
E	276.52 mm	Raceway diameter outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 232 mm	Abutment diameter shaft
D_a	max. 288 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	737 kN

Basic static load rating	C_0	1 600 kN
Fatigue load limit	P_u	160 kN
Reference speed		950 r/min
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	16.8 kg

NNCL 4952 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	360 mm
Width	100 mm

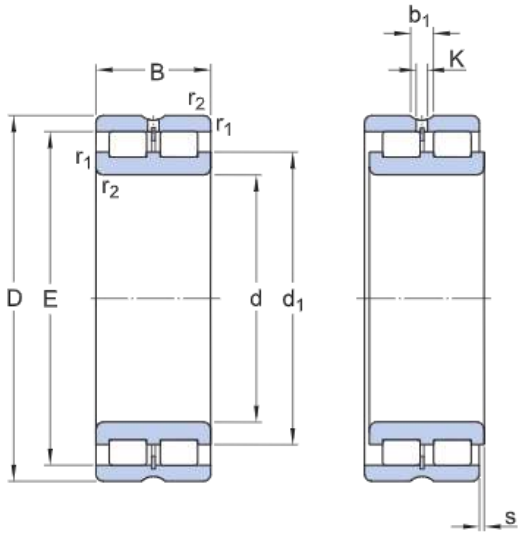
Performance

Basic dynamic load rating	1 170 kN
Basic static load rating	2 550 kN
Limiting speed	950 r/min
Reference speed	750 r/min

Properties

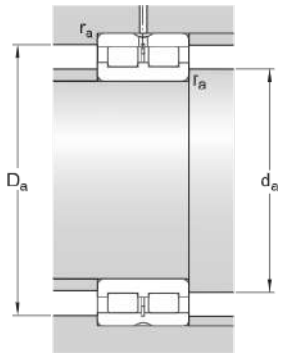
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	260 mm	Bore diameter
D	360 mm	Outside diameter
B	100 mm	Width
d_1	≈ 295 mm	Shoulder diameter inner ring
E	331.33 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 272 mm	Abutment diameter shaft
D_a	max. 349 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 170 kN

Basic static load rating	C_0	2 550 kN
Fatigue load limit	P_u	245 kN
Reference speed		750 r/min
Limiting speed		950 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	31.2 kg

NNCL 4956 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	380 mm
Width	100 mm

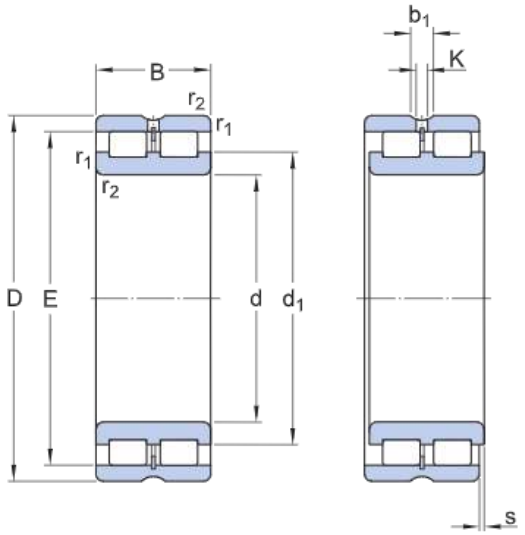
Performance

Basic dynamic load rating	1 210 kN
Basic static load rating	2 700 kN
Limiting speed	900 r/min
Reference speed	700 r/min

Properties

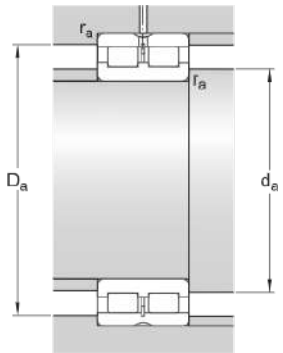
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	280 mm	Bore diameter
D	380 mm	Outside diameter
B	100 mm	Width
d_1	≈ 317 mm	Shoulder diameter inner ring
E	353.34 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 293 mm	Abutment diameter shaft
D_a	max. 368 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 210 kN

Basic static load rating	C_0	2 700 kN
Fatigue load limit	P_u	255 kN
Reference speed		700 r/min
Limiting speed		900 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	33 kg

NNCL 4960 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	420 mm
Width	118 mm

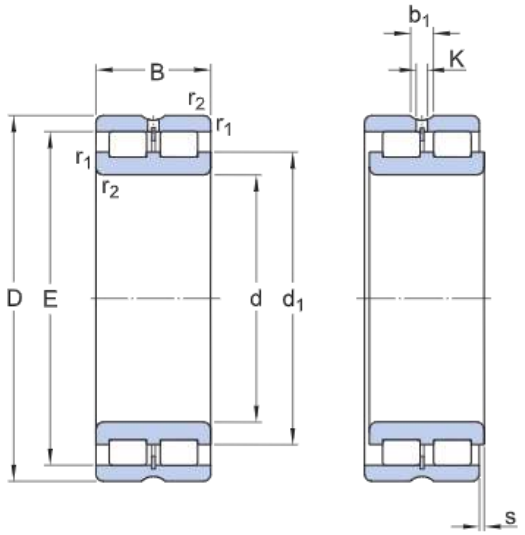
Performance

Basic dynamic load rating	1 680 kN
Basic static load rating	3 750 kN
Limiting speed	800 r/min
Reference speed	670 r/min

Properties

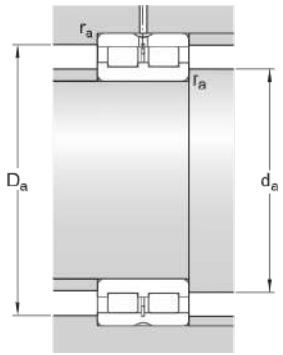
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	300 mm	Bore diameter
D	420 mm	Outside diameter
B	118 mm	Width
d_1	≈ 340 mm	Shoulder diameter inner ring
E	385.51 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 315 mm	Abutment diameter shaft
D_a	max. 406 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 680 kN

Basic static load rating	C_0	3 750 kN
Fatigue load limit	P_u	355 kN
Reference speed		670 r/min
Limiting speed		800 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	52 kg

NNCL 4964 CV

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	440 mm
Width	118 mm

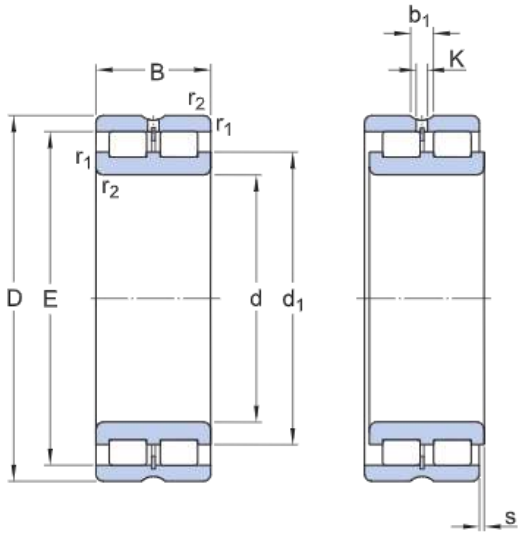
Performance

Basic dynamic load rating	1 760 kN
Basic static load rating	4 050 kN
Limiting speed	750 r/min
Reference speed	600 r/min

Properties

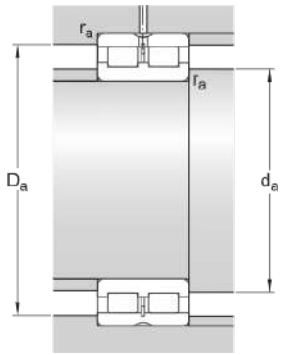
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	3
Number of flanges, outer ring	0
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification



Dimensions

d	320 mm	Bore diameter
D	440 mm	Outside diameter
B	118 mm	Width
d_1	≈ 368 mm	Shoulder diameter inner ring
E	412.27 mm	Raceway diameter outer ring
b_1	9.4 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension (open bearings)



Abutment dimensions

d_a	min. 336 mm	Abutment diameter shaft
D_a	max. 425 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 760 kN

Basic static load rating	C_0	4 050 kN
Fatigue load limit	P_u	375 kN
Reference speed		600 r/min
Limiting speed		750 r/min
Minimum load factor	k_r	0.25

Mass

Mass bearing	55 kg

NNF 5004 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	42 mm
Width	30 mm

Performance

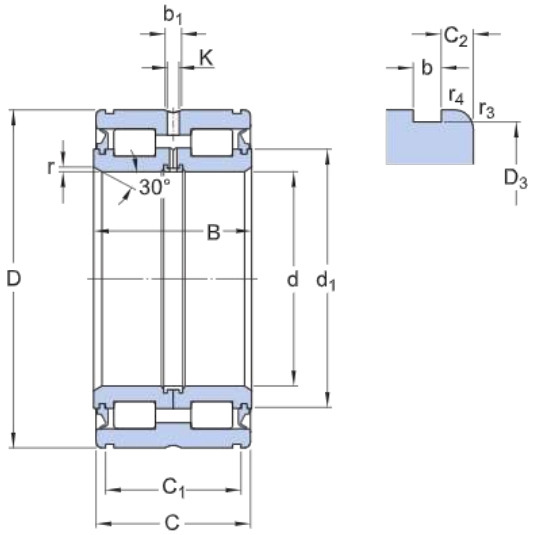
Basic dynamic load rating	45.7 kN
Basic static load rating	55 kN
Limiting speed	3 400 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

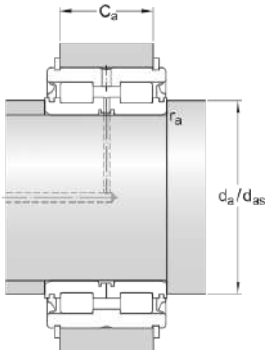


Dimensions

d	20 mm	Bore diameter
D	42 mm	Outside diameter
B	30 mm	Width
C	29 mm	Outer ring width (sealed bearing)
d_1	≈ 30.6 mm	Shoulder diameter inner ring
D_3	40.2 mm	Snap ring groove diameter at outer ring
C_1	24.7 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.15 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	1.8 mm	Width snap ring groove outer ring
b_1	6.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 0.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d_a	min. 24 mm	Abutment diameter shaft
d_a	28.8 mm	Abutment diameter shaft
C_a	21.5 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm	Tolerance for abutment C_a	
C_a 21 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
– 0.2 mm	Tolerance for abutment C_a	
r_a max. 0.3 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	45.7 kN
Basic static load rating	C_0	55 kN
Fatigue load limit	P_u	5.7 kN
Limiting speed		3 400 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	0.2 kg

Associated products

Snap ring Seeger	SW 42
Snap ring in accordance with DIN 471	42x1.75

NNF 5005 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	47 mm
Width	30 mm

Performance

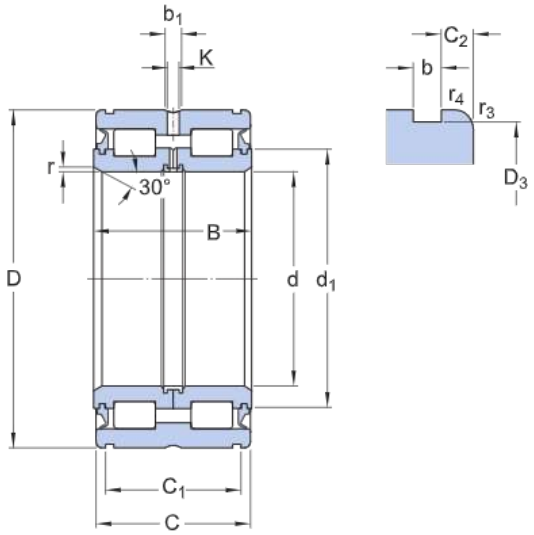
Basic dynamic load rating	50.1 kN
Basic static load rating	65.5 kN
Limiting speed	3 000 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

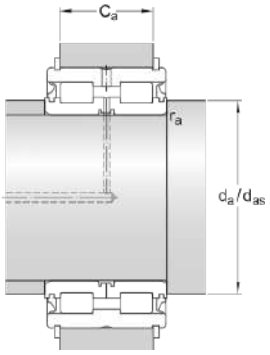


Dimensions

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	30 mm	Width
C	29 mm	Outer ring width (sealed bearing)
d_1	≈ 35.4 mm	Shoulder diameter inner ring
D_3	45.2 mm	Snap ring groove diameter at outer ring
C_1	24.7 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.15 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	1.8 mm	Width snap ring groove outer ring
b_1	6.5 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 0.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d_a	min. 29 mm	Abutment diameter shaft
d_a	33.6 mm	Abutment diameter shaft
C_a	21.5 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm	Tolerance for abutment C_a	
C_a 21 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
– 0.2 mm	Tolerance for abutment C_a	
r_a max. 0.3 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	50.1 kN
Basic static load rating	C_0	65.5 kN
Fatigue load limit	P_u	6.8 kN
Limiting speed		3 000 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	0.24 kg

Associated products

Snap ring Seeger	SW 47
Snap ring in accordance with DIN 471	47x1.75

NNF 5006 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	55 mm
Width	34 mm

Performance

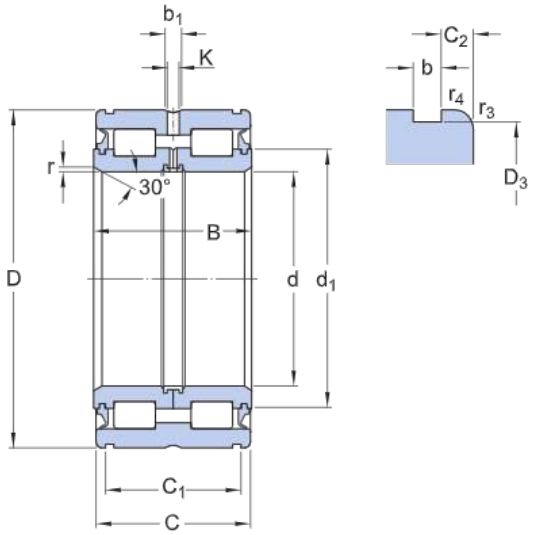
Basic dynamic load rating	57.2 kN
Basic static load rating	75 kN
Limiting speed	2 600 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

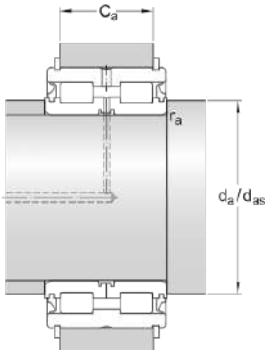


Dimensions

d	30 mm	Bore diameter
D	55 mm	Outside diameter
B	34 mm	Width
C	33 mm	Outer ring width (sealed bearing)
d_1	≈ 40.6 mm	Shoulder diameter inner ring
D_3	53 mm	Snap ring groove diameter at outer ring
C_1	28.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	2.1 mm	Width snap ring groove outer ring
b_1	7.5 mm	Width annular lubrication groove outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r	min. 0.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d_a	min. 34 mm	Abutment diameter shaft
d_a	38.7 mm	Abutment diameter shaft
C_a	25 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm	Tolerance for abutment C_a	
C_a 24 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
– 0.2 mm	Tolerance for abutment C_a	
r_a max. 0.3 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	57.2 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	7.8 kN
Limiting speed		2 600 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	0.37 kg

Associated products

Snap ring Seeger	SW 55
Snap ring in accordance with DIN 471	55x2

NNF 5007 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	62 mm
Width	36 mm

Performance

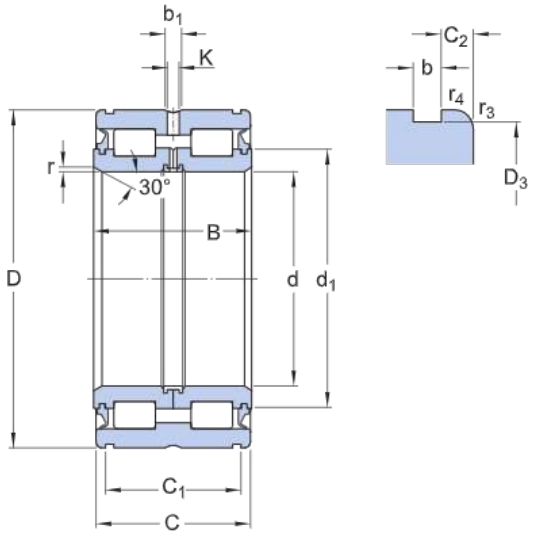
Basic dynamic load rating	70.4 kN
Basic static load rating	98 kN
Limiting speed	2 200 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

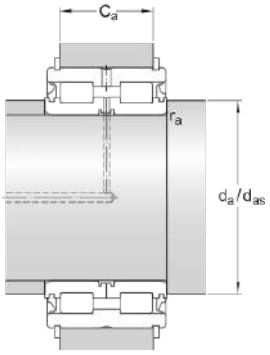


Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
B	36 mm	Width
C	35 mm	Outer ring width (sealed bearing)
d_1	≈ 46.1 mm	Shoulder diameter inner ring
D_3	60 mm	Snap ring groove diameter at outer ring
C_1	30.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	2.1 mm	Width snap ring groove outer ring
b_1	7.5 mm	Width annular lubrication groove outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r	min. 0.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d_a	min. 39 mm	Abutment diameter shaft
d_a	44 mm	Abutment diameter shaft
C_a	27 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm	Tolerance for abutment C_a	
C_a 26 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
– 0.2 mm	Tolerance for abutment C_a	
r_a max. 0.3 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	70.4 kN
Basic static load rating	C_0	98 kN
Fatigue load limit	P_u	10.6 kN
Limiting speed		2 200 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	0.48 kg

Associated products

Snap ring Seeger	SW 62
Snap ring in accordance with DIN 471	62x2

NNF 5008 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	68 mm
Width	38 mm

Performance

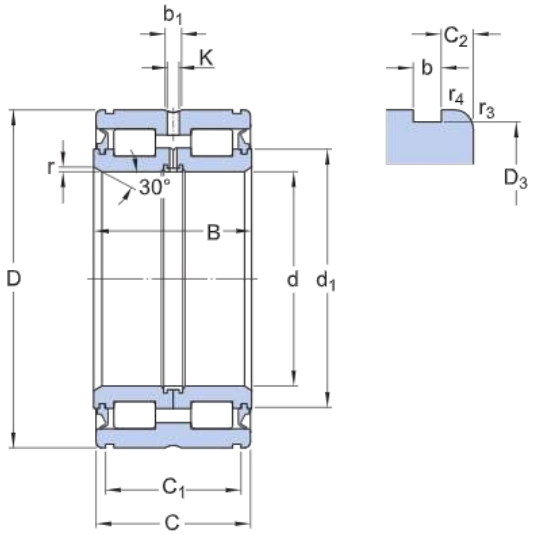
Basic dynamic load rating	85.8 kN
Basic static load rating	116 kN
Limiting speed	2 000 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

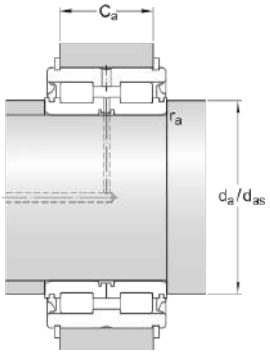


Dimensions

d	40 mm	Bore diameter
D	68 mm	Outside diameter
B	38 mm	Width
C	37 mm	Outer ring width (sealed bearing)
d_1	≈ 51.4 mm	Shoulder diameter inner ring
D_3	65.8 mm	Snap ring groove diameter at outer ring
C_1	32.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	2.7 mm	Width snap ring groove outer ring
b_1	7.5 mm	Width annular lubrication groove outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r	min. 0.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 44 mm	Abutment diameter shaft
d_a	49.2 mm	Abutment diameter shaft
C_a	28 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm	Tolerance for abutment C_a	
C_a 27 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
– 0.2 mm	Tolerance for abutment C_a	
r_a max. 0.4 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	85.8 kN
Basic static load rating	C_0	116 kN
Fatigue load limit	P_u	13.2 kN
Limiting speed		2 000 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	0.56 kg

Associated products

Snap ring Seeger	SW 68
Snap ring in accordance with DIN 471	68x2.5

NNF 5009 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	75 mm
Width	40 mm

Performance

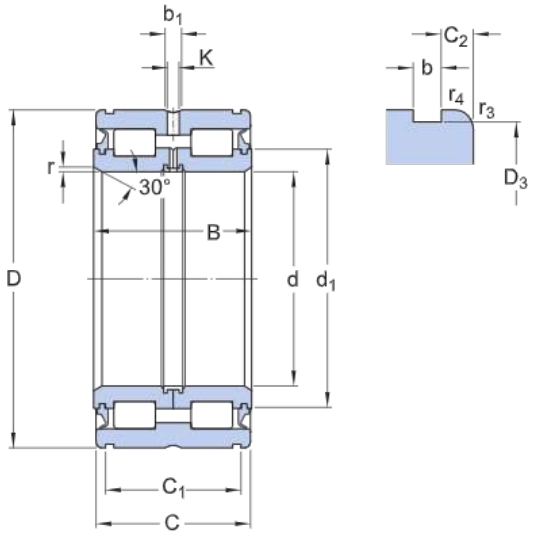
Basic dynamic load rating	102 kN
Basic static load rating	146 kN
Limiting speed	1 800 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

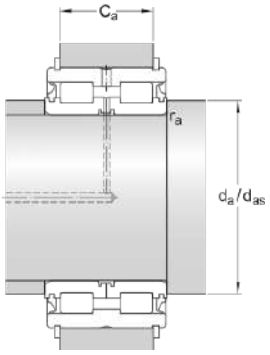


Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	40 mm	Width
C	39 mm	Outer ring width (sealed bearing)
d_1	≈ 57 mm	Shoulder diameter inner ring
D_3	72.8 mm	Snap ring groove diameter at outer ring
C_1	34.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	2.7 mm	Width snap ring groove outer ring
b_1	8.5 mm	Width annular lubrication groove outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r	min. 0.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 49 mm	Abutment diameter shaft
d_a	54.7 mm	Abutment diameter shaft
C_a	30 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm	Tolerance for abutment C_a	
C_a 29 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
– 0.2 mm	Tolerance for abutment C_a	
r_a max. 0.4 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	102 kN
Basic static load rating	C_0	146 kN
Fatigue load limit	P_u	17 kN
Limiting speed		1 800 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	0.7 kg

Associated products

Snap ring Seeger	SW 75
Snap ring in accordance with DIN 471	75x2.5

NNF 5010 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	80 mm
Width	40 mm

Performance

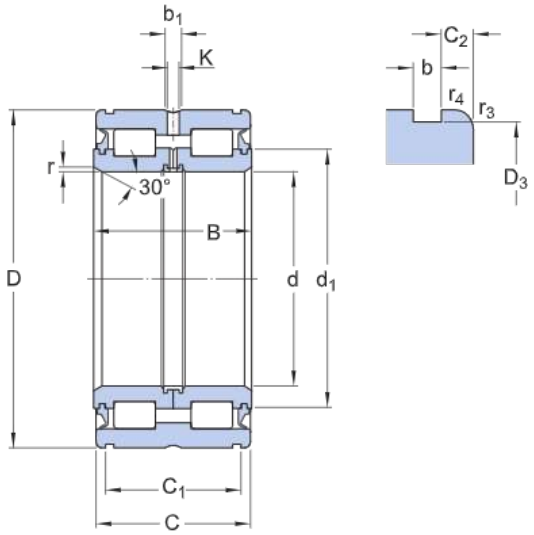
Basic dynamic load rating	108 kN
Basic static load rating	160 kN
Limiting speed	1 700 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

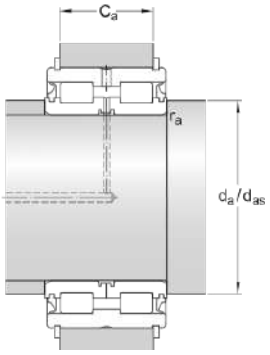


Dimensions

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	40 mm	Width
C	39 mm	Outer ring width (sealed bearing)
d_1	≈ 61.8 mm	Shoulder diameter inner ring
D_3	77.8 mm	Snap ring groove diameter at outer ring
C_1	34.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	2.7 mm	Width snap ring groove outer ring
b_1	8.5 mm	Width annular lubrication groove outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r	min. 0.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 54 mm	Abutment diameter shaft
d_a	59.5 mm	Abutment diameter shaft
C_a	30 mm	Abutment width applying for SW snap rings (sealed brg.)



	– 0.2 mm	Tolerance for abutment C_a
C_a	29 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 0.4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	108 kN
Basic static load rating	C_0	160 kN
Fatigue load limit	P_u	18.6 kN
Limiting speed		1 700 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	0.76 kg

Associated products

Snap ring Seeger	SW 80
Snap ring in accordance with DIN 471	80x2.5

NNF 5011 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	90 mm
Width	46 mm

Performance

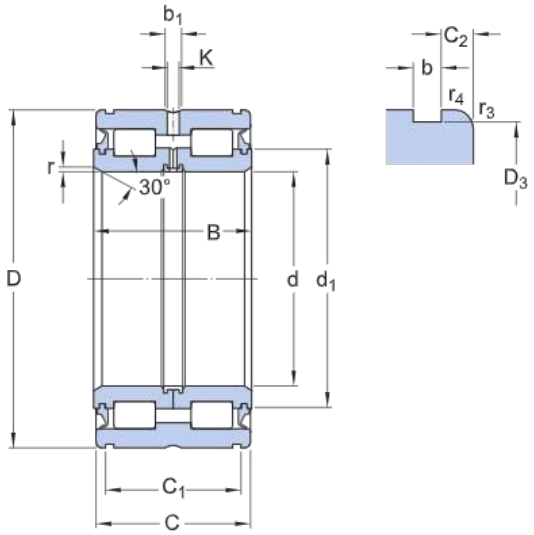
Basic dynamic load rating	128 kN
Basic static load rating	193 kN
Limiting speed	1 500 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

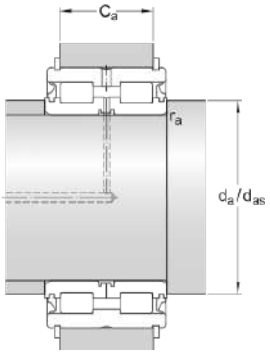


Dimensions

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	46 mm	Width
C	45 mm	Outer ring width (sealed bearing)
d_1	≈ 68.6 mm	Shoulder diameter inner ring
D_3	87.4 mm	Snap ring groove diameter at outer ring
C_1	40.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	3.2 mm	Width snap ring groove outer ring
b_1	8.5 mm	Width annular lubrication groove outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r	min. 1 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 60 mm	Abutment diameter shaft
d_a	66.1 mm	Abutment diameter shaft
C_a	35 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm	Tolerance for abutment C_a	
C_a 34 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
– 0.2 mm	Tolerance for abutment C_a	
r_a max. 0.6 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	128 kN
Basic static load rating	C_0	193 kN
Fatigue load limit	P_u	22.8 kN
Limiting speed		1 500 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	1.18 kg

Associated products

Snap ring Seeger	SW 90
Snap ring in accordance with DIN 471	90x3

NNF 5012 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	60 mm
Outside diameter	95 mm
Width	46 mm

Performance

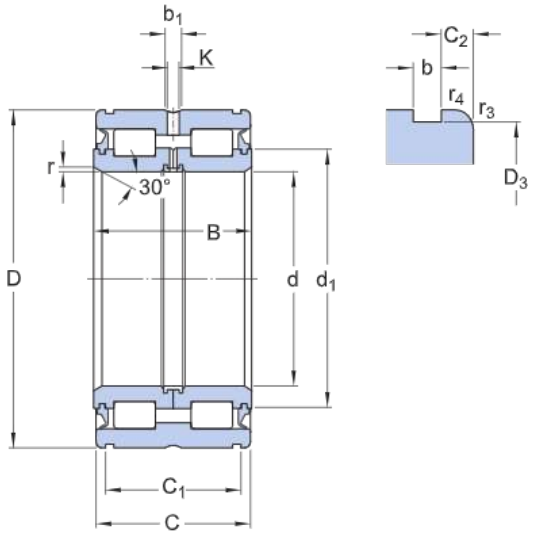
Basic dynamic load rating	134 kN
Basic static load rating	208 kN
Limiting speed	1 400 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

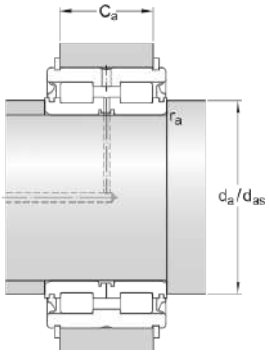


Dimensions

d	60 mm	Bore diameter
D	95 mm	Outside diameter
B	46 mm	Width
C	45 mm	Outer ring width (sealed bearing)
d_1	≈ 73.7 mm	Shoulder diameter inner ring
D_3	92.4 mm	Snap ring groove diameter at outer ring
C_1	40.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	3.2 mm	Width snap ring groove outer ring
b_1	9.5 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
r	min. 1 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 65 mm	Abutment diameter shaft
d_a	71.2 mm	Abutment diameter shaft
C_a	35 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	34 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	134 kN
Basic static load rating	C_0	208 kN
Fatigue load limit	P_u	25 kN
Limiting speed		1 400 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	1.26 kg

Associated products

Snap ring Seeger	SW 95
Snap ring in accordance with DIN 471	95x3

NNF 5013 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	65 mm
Outside diameter	100 mm
Width	46 mm

Performance

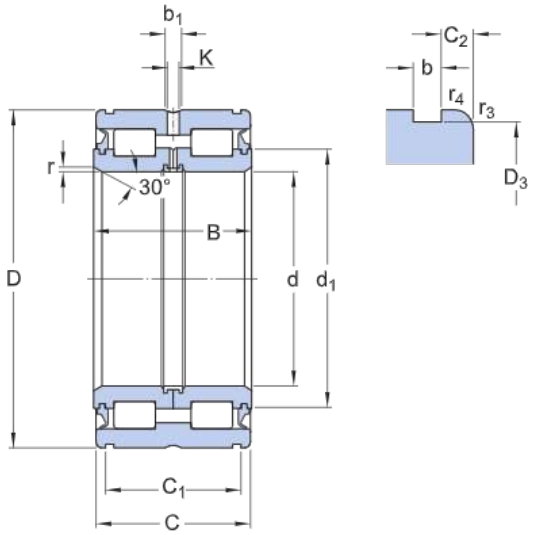
Basic dynamic load rating	138 kN
Basic static load rating	224 kN
Limiting speed	1 300 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

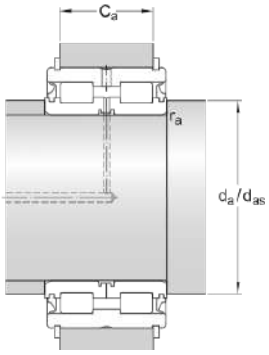


Dimensions

d	65 mm	Bore diameter
D	100 mm	Outside diameter
B	46 mm	Width
C	45 mm	Outer ring width (sealed bearing)
d_1	≈ 78.8 mm	Shoulder diameter inner ring
D_3	97.4 mm	Snap ring groove diameter at outer ring
C_1	40.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	3.2 mm	Width snap ring groove outer ring
b_1	9.5 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
r	min. 1 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 70 mm	Abutment diameter shaft
d_a	76.3 mm	Abutment diameter shaft
C_a	35 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	34 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	138 kN
Basic static load rating	C_0	224 kN
Fatigue load limit	P_u	26.5 kN
Limiting speed		1 300 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	1.33 kg

Associated products

Snap ring Seeger	SW 100
Snap ring in accordance with DIN 471	100x3

NNF 5014 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	110 mm
Width	54 mm

Performance

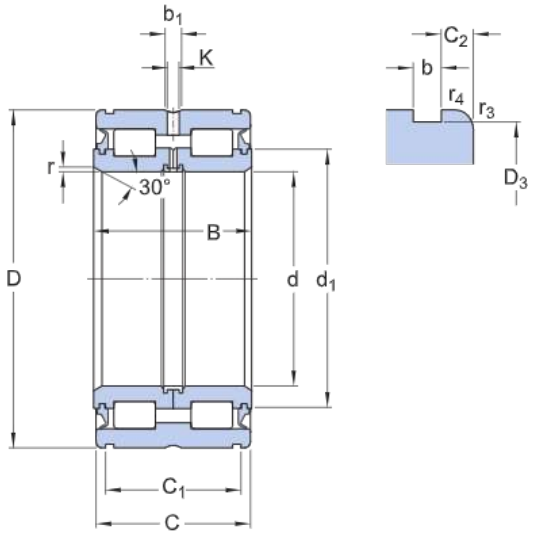
Basic dynamic load rating	187 kN
Basic static load rating	285 kN
Limiting speed	1 200 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

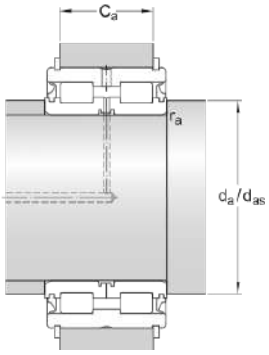


Dimensions

d	70 mm	Bore diameter
D	110 mm	Outside diameter
B	54 mm	Width
C	53 mm	Outer ring width (sealed bearing)
d_1	≈ 84.5 mm	Shoulder diameter inner ring
D_3	107.1 mm	Snap ring groove diameter at outer ring
C_1	48.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	9.5 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
r	min. 1 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 75 mm	Abutment diameter shaft
d_a	82 mm	Abutment diameter shaft
C_a	43 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	40 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	187 kN
Basic static load rating	C_0	285 kN
Fatigue load limit	P_u	34.5 kN
Limiting speed		1 200 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	1.87 kg

Associated products

Snap ring Seeger	SW 110
Snap ring in accordance with DIN 471	110x4

NNF 5015 ADB-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	75 mm
Outside diameter	115 mm
Width	54 mm

Performance

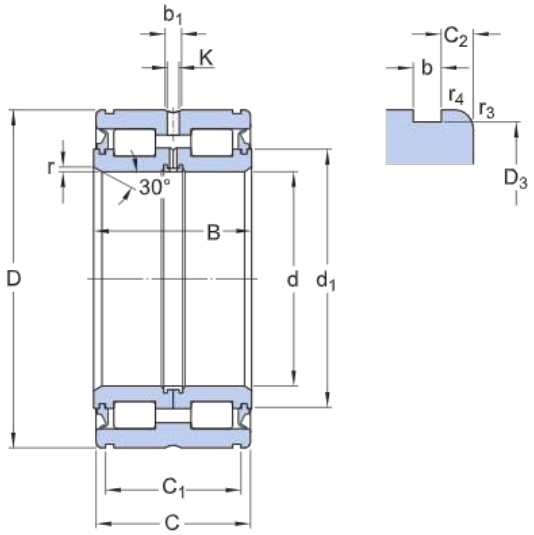
Basic dynamic load rating	224 kN
Basic static load rating	310 kN
Limiting speed	1 100 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

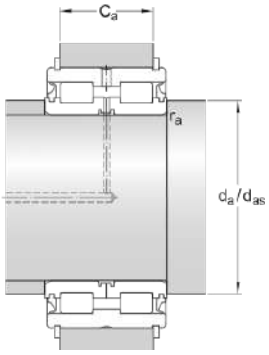


Dimensions

d	75 mm	Bore diameter
D	115 mm	Outside diameter
B	54 mm	Width
C	53 mm	Outer ring width (sealed bearing)
d_1	≈ 90 mm	Shoulder diameter inner ring
D_3	112.1 mm	Snap ring groove diameter at outer ring
C_1	48.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	9.5 mm	Width annular lubrication groove outer ring
K	5 mm	Diameter lubrication hole (outer ring)
r	min. 1 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 80 mm	Abutment diameter shaft
d_a	87 mm	Abutment diameter shaft
C_a	43 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a 40 mm		Abutment width applying for DIN 471 snap rings (sealed brg.)
– 0.2 mm		Tolerance for abutment C_a
r_a max. 0.6 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	224 kN
Basic static load rating	C_0	310 kN
Fatigue load limit	P_u	40 kN
Limiting speed		1 100 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	1.96 kg

Associated products

Snap ring Seeger	SW 115
Snap ring in accordance with DIN 471	115x4

NNF 5016 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	125 mm
Width	60 mm

Performance

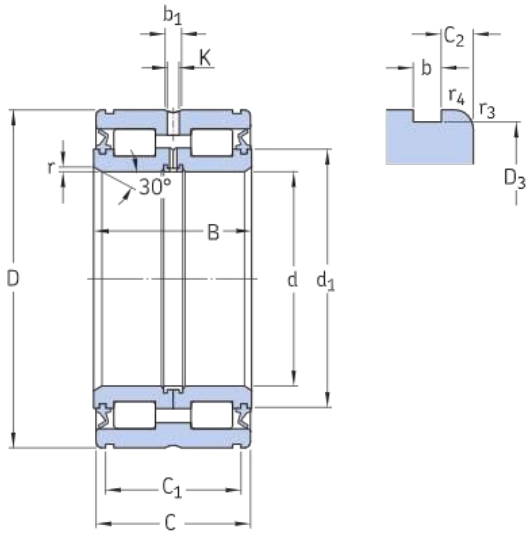
Basic dynamic load rating	251 kN
Basic static load rating	415 kN
Limiting speed	1 000 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

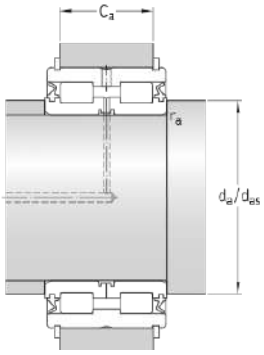


Dimensions

d	80 mm	Bore diameter
D	125 mm	Outside diameter
B	60 mm	Width
C	59 mm	Outer ring width (sealed bearing)
d_1	≈ 97 mm	Shoulder diameter inner ring
D_3	122.1 mm	Snap ring groove diameter at outer ring
E	113.5 mm	Raceway diameter outer ring
C_1	54.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 86 mm	Abutment diameter shaft
d_a	94.3 mm	Abutment diameter shaft



C_a	49 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
C_a	46 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	251 kN
Basic static load rating	C_0	415 kN
Fatigue load limit	P_u	53 kN
Limiting speed		1 000 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	2.68 kg

Associated products

Snap ring Seeger	SW 125
Snap ring in accordance with DIN 471	125x4

NNF 5017 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	85 mm
Outside diameter	130 mm
Width	60 mm

Performance

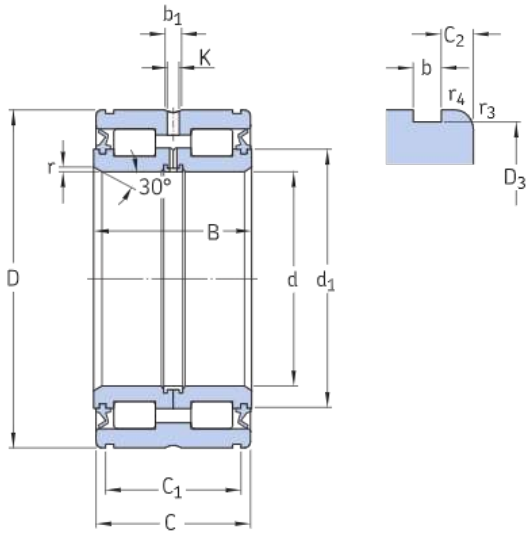
Basic dynamic load rating	270 kN
Basic static load rating	430 kN
Limiting speed	1 000 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

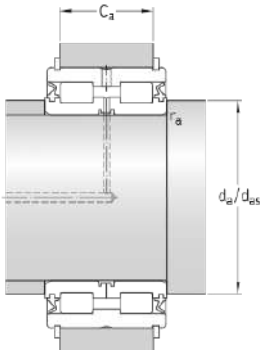


Dimensions

d	85 mm	Bore diameter
D	130 mm	Outside diameter
B	60 mm	Width
C	59 mm	Outer ring width (sealed bearing)
d_1	≈ 101.5 mm	Shoulder diameter inner ring
D_3	127.1 mm	Snap ring groove diameter at outer ring
E	119.5 mm	Raceway diameter outer ring
C_1	54.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	2.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 91 mm	Abutment diameter shaft
d_a	100 mm	Abutment diameter shaft
C_a	49 mm	Abutment width applying for SW snap rings



		(sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
C_a	46 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	270 kN
Basic static load rating	C_0	430 kN
Fatigue load limit	P_u	55 kN
Limiting speed		1 000 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	2.83 kg

Associated products

Snap ring Seeger	SW 130
Snap ring in accordance with DIN 471	130x4

NNF 5018 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	90 mm
Outside diameter	140 mm
Width	67 mm

Performance

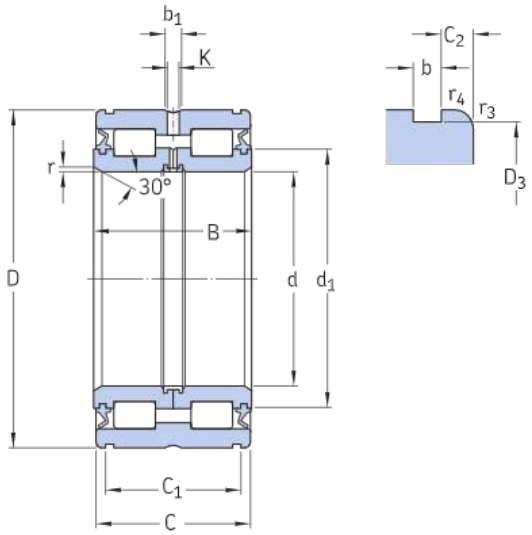
Basic dynamic load rating	319 kN
Basic static load rating	550 kN
Limiting speed	900 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

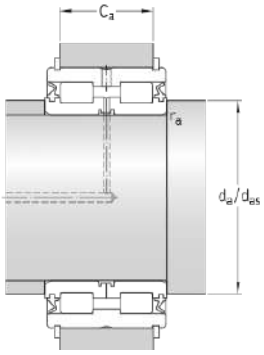


Dimensions

d	90 mm	Bore diameter
D	140 mm	Outside diameter
B	67 mm	Width
C	66 mm	Outer ring width (sealed bearing)
d_1	≈ 109.5 mm	Shoulder diameter inner ring
D_3	137 mm	Snap ring groove diameter at outer ring
E	127.5 mm	Raceway diameter outer ring
C_1	59.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 96 mm	Abutment diameter shaft
d_a	106 mm	Abutment diameter shaft
C_a	54 mm	Abutment width applying for SW snap rings



		(sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
C_a	51 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	319 kN
Basic static load rating	C_0	550 kN
Fatigue load limit	P_u	69.5 kN
Limiting speed		900 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	3.71 kg

Associated products

Snap ring Seeger	SW 140
Snap ring in accordance with DIN 471	140x4

NNF 5020 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	150 mm
Width	67 mm

Performance

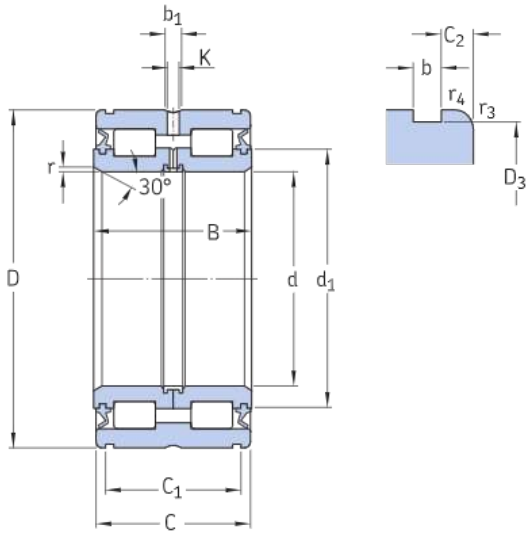
Basic dynamic load rating	336 kN
Basic static load rating	570 kN
Limiting speed	850 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

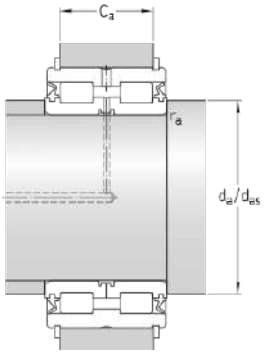


Dimensions

d	100 mm	Bore diameter
D	150 mm	Outside diameter
B	67 mm	Width
C	66 mm	Outer ring width (sealed bearing)
d_1	≈ 118.5 mm	Shoulder diameter inner ring
D_3	147 mm	Snap ring groove diameter at outer ring
E	138 mm	Raceway diameter outer ring
C_1	59.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 106 mm	Abutment diameter shaft
d_a	115 mm	Abutment diameter shaft
C_a	54 mm	Abutment width applying for SW snap rings



		(sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
C_c	51 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	336 kN
Basic static load rating	C_0	570 kN
Fatigue load limit	P_u	68 kN
Limiting speed		850 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	3.95 kg

Associated products

Snap ring Seeger	SW 150
Snap ring in accordance with DIN 471	150x4

NNF 5022 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	170 mm
Width	80 mm

Performance

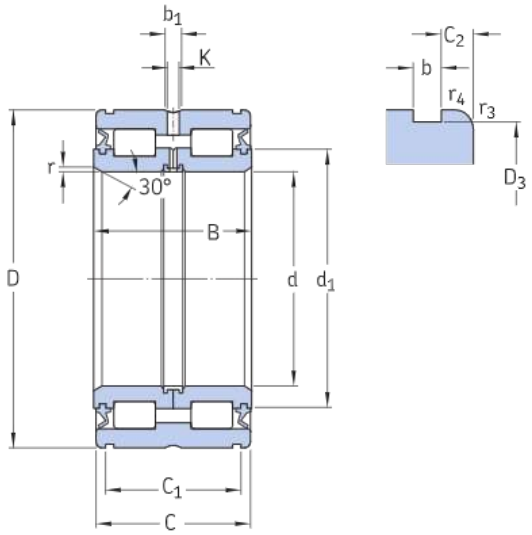
Basic dynamic load rating	413 kN
Basic static load rating	695 kN
Limiting speed	750 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

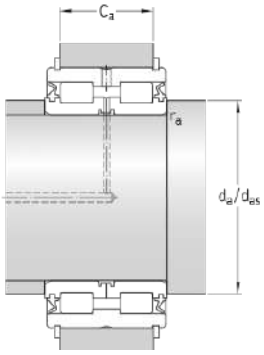


Dimensions

d	110 mm	Bore diameter
D	170 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 132 mm	Shoulder diameter inner ring
D_3	167 mm	Snap ring groove diameter at outer ring
E	154.5 mm	Raceway diameter outer ring
C_1	70.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	4.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	6 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 117 mm	Abutment diameter shaft
d_a	128 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings



		(sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
C_c	62 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	413 kN
Basic static load rating	C_0	695 kN
Fatigue load limit	P_u	81.5 kN
Limiting speed		750 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	6.45 kg

Associated products

Snap ring Seeger	SW 170
Snap ring in accordance with DIN 471	170x4

NNF 5024 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	180 mm
Width	80 mm

Performance

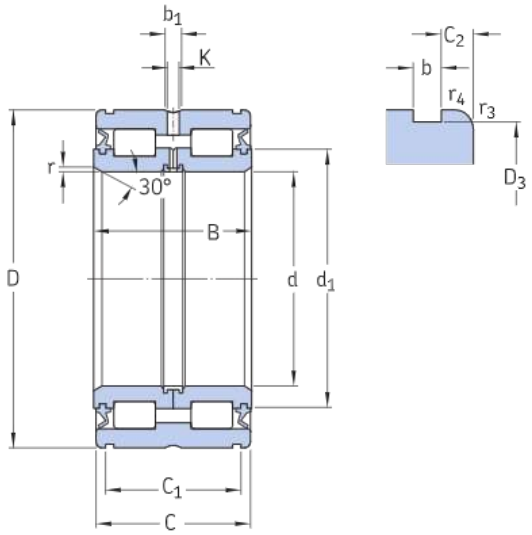
Basic dynamic load rating	429 kN
Basic static load rating	750 kN
Limiting speed	700 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

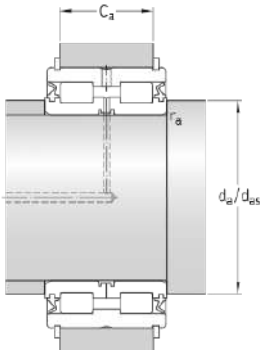


Dimensions

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	80 mm	Width
C	79 mm	Outer ring width (sealed bearing)
d_1	≈ 141.5 mm	Shoulder diameter inner ring
D_3	176 mm	Snap ring groove diameter at outer ring
E	164 mm	Raceway diameter outer ring
C_1	71.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	3.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	3.5 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 127 mm	Abutment diameter shaft
d_a	138 mm	Abutment diameter shaft
C_a	65 mm	Abutment width applying for SW snap rings



			(sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a	
C_c	63 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
	– 0.2 mm	Tolerance for abutment C_a	
r_a	max. 1.5 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	429 kN
Basic static load rating	C_0	750 kN
Fatigue load limit	P_u	86.5 kN
Limiting speed		700 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	6.9 kg

Associated products

Snap ring Seeger	SW 180
Snap ring in accordance with DIN 471	180x4

NNF 5026 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	200 mm
Width	95 mm

Performance

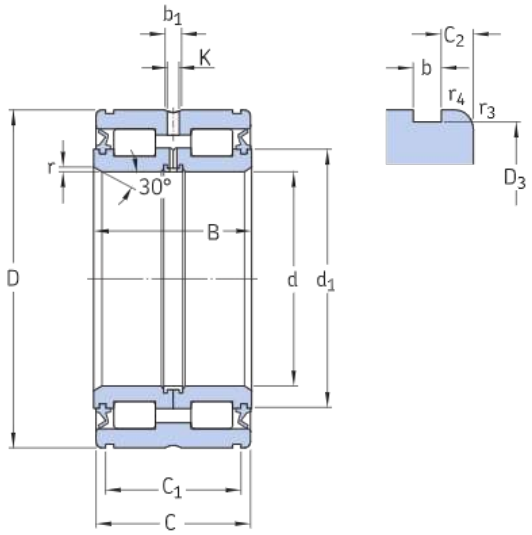
Basic dynamic load rating	616 kN
Basic static load rating	1 040 kN
Limiting speed	630 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

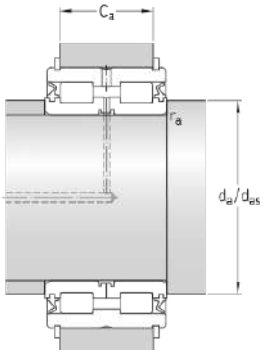


Dimensions

d	130 mm	Bore diameter
D	200 mm	Outside diameter
B	95 mm	Width
C	94 mm	Outer ring width (sealed bearing)
d_1	≈ 155 mm	Shoulder diameter inner ring
D_3	196 mm	Snap ring groove diameter at outer ring
E	183.5 mm	Raceway diameter outer ring
C_1	83.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	5.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	4.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 137 mm	Abutment diameter shaft
d_a	150 mm	Abutment diameter shaft
C_a	77 mm	Abutment width applying for SW snap rings (sealed brg.)



	– 0.2 mm	Tolerance for abutment C_a
C_a	75 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	616 kN
Basic static load rating	C_0	1 040 kN
Fatigue load limit	P_u	120 kN
Limiting speed		630 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	10.5 kg

Associated products

Snap ring Seeger	SW 200
Snap ring in accordance with DIN 471	200x4

NNF 5028 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	210 mm
Width	95 mm

Performance

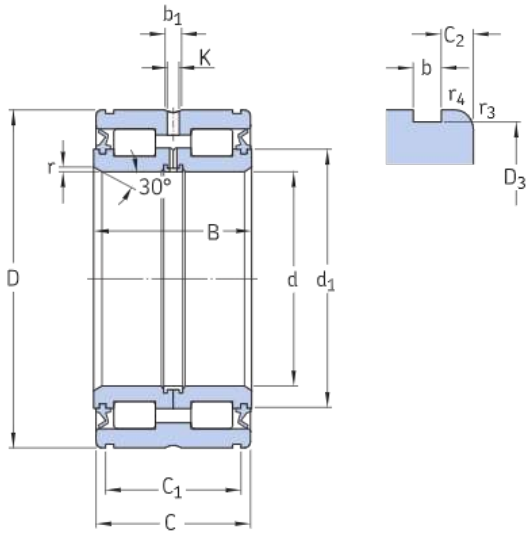
Basic dynamic load rating	644 kN
Basic static load rating	1 120 kN
Limiting speed	600 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

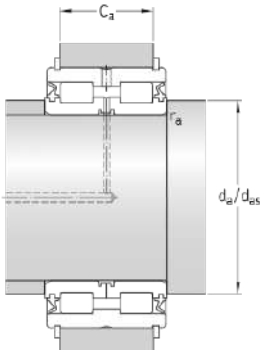


Dimensions

d	140 mm	Bore diameter
D	210 mm	Outside diameter
B	95 mm	Width
C	94 mm	Outer ring width (sealed bearing)
d_1	≈ 167 mm	Shoulder diameter inner ring
D_3	206 mm	Snap ring groove diameter at outer ring
E	195.5 mm	Raceway diameter outer ring
C_1	83.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	5.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 1.8 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 147 mm	Abutment diameter shaft
d_a	162 mm	Abutment diameter shaft
C_a	77 mm	Abutment width applying for SW snap rings (sealed brg.)



	– 0.2 mm	Tolerance for abutment C_a
C_a	73 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	644 kN
Basic static load rating	C_0	1 120 kN
Fatigue load limit	P_u	127 kN
Limiting speed		600 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	11 kg

Associated products

Snap ring Seeger	SW 210
Snap ring in accordance with DIN 471	210x5

NNF 5030 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	225 mm
Width	100 mm

Performance

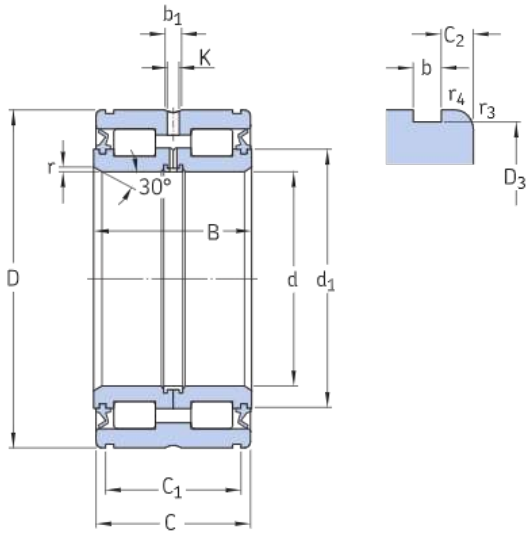
Basic dynamic load rating	748 kN
Basic static load rating	1 290 kN
Limiting speed	560 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

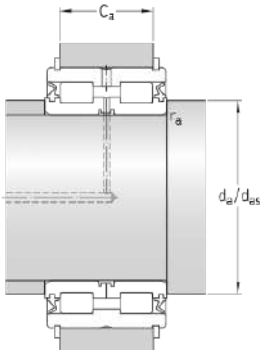


Dimensions

d	150 mm	Bore diameter
D	225 mm	Outside diameter
B	100 mm	Width
C	99 mm	Outer ring width (sealed bearing)
d_1	≈ 177.65 mm	Shoulder diameter inner ring
D_3	221 mm	Snap ring groove diameter at outer ring
E	209.15 mm	Raceway diameter outer ring
C_1	87.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	5.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	8.6 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 3.5 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 157 mm	Abutment diameter shaft
d_a	172 mm	Abutment diameter shaft
C_a	81 mm	Abutment width applying for SW snap rings



			(sealed brg.)
	– 0.2	mm	Tolerance for abutment C_a
C_c	77	mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2	mm	Tolerance for abutment C_a
r_a	max. 2 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	748 kN
Basic static load rating	C_0	1 290 kN
Fatigue load limit	P_u	143 kN
Limiting speed		560 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	13.5 kg

Associated products

Snap ring Seeger	SW 225
Snap ring in accordance with DIN 471	225x5

NNF 5032 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	240 mm
Width	109 mm

Performance

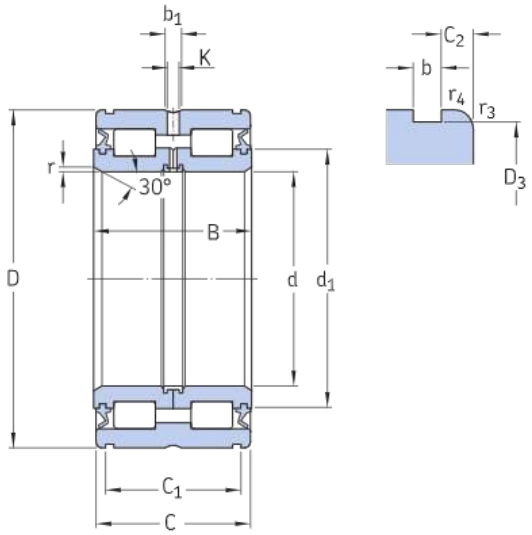
Basic dynamic load rating	781 kN
Basic static load rating	1 400 kN
Limiting speed	500 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

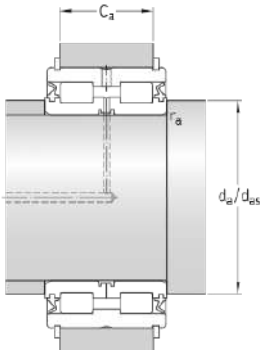


Dimensions

d	160 mm	Bore diameter
D	240 mm	Outside diameter
B	109 mm	Width
C	108 mm	Outer ring width (sealed bearing)
d_1	≈ 191 mm	Shoulder diameter inner ring
D_3	236 mm	Snap ring groove diameter at outer ring
E	222.55 mm	Raceway diameter outer ring
C_1	95.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	6.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 2 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 167 mm	Abutment diameter shaft
d_a	186 mm	Abutment diameter shaft
C_a	89 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm	Tolerance for abutment C_a	
C_a 85 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
– 0.2 mm	Tolerance for abutment C_a	
r_a max. 2 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	781 kN
Basic static load rating	C_0	1 400 kN
Fatigue load limit	P_u	153 kN
Limiting speed		500 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	16.5 kg

Associated products

Snap ring Seeger	SW 240
Snap ring in accordance with DIN 471	240x5

NNF 5034 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	260 mm
Width	122 mm

Performance

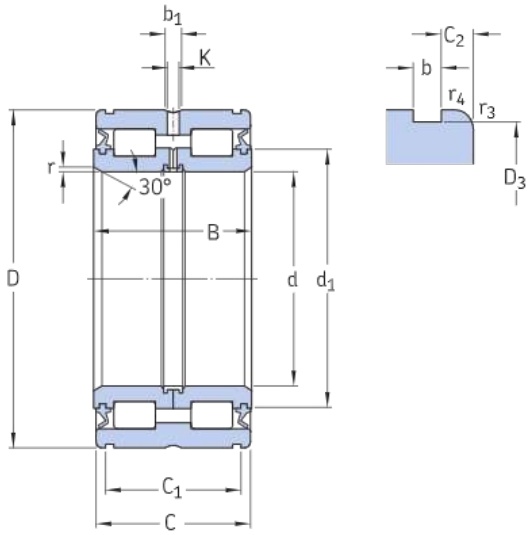
Basic dynamic load rating	1 010 kN
Basic static load rating	1 800 kN
Limiting speed	480 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

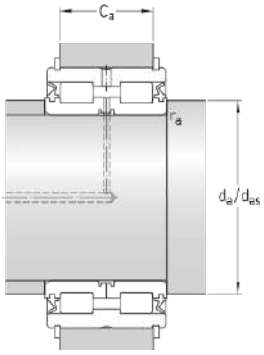


Dimensions

d	170 mm	Bore diameter
D	260 mm	Outside diameter
B	122 mm	Width
C	121 mm	Outer ring width (sealed bearing)
d_1	≈ 203.6 mm	Shoulder diameter inner ring
D_3	254 mm	Snap ring groove diameter at outer ring
E	239 mm	Raceway diameter outer ring
C_1	107.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	6.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	7 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 2 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 177 mm	Abutment diameter shaft
d_a	197 mm	Abutment diameter shaft
C_a	99 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm	Tolerance for abutment C_a	
C_a 97 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)	
– 0.2 mm	Tolerance for abutment C_a	
r_a max. 2 mm	Fillet radius	

Calculation data

Basic dynamic load rating	C	1 010 kN
Basic static load rating	C_0	1 800 kN
Fatigue load limit	P_u	193 kN
Limiting speed		480 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	22.5 kg

Associated products

Snap ring Seeger	SW 260
Snap ring in accordance with DIN 471	260x5

NNF 5036 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	280 mm
Width	136 mm

Performance

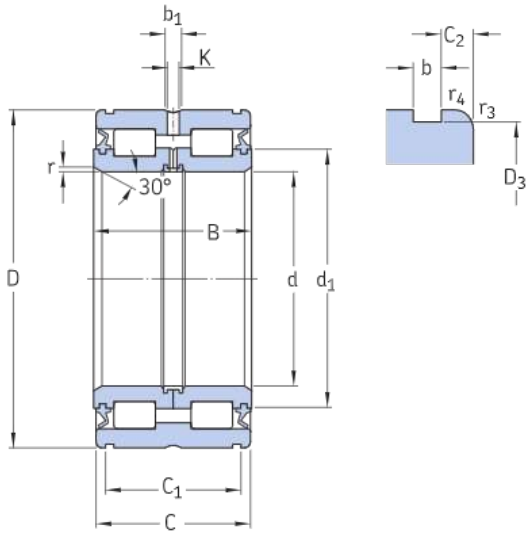
Basic dynamic load rating	1 170 kN
Basic static load rating	2 120 kN
Limiting speed	450 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

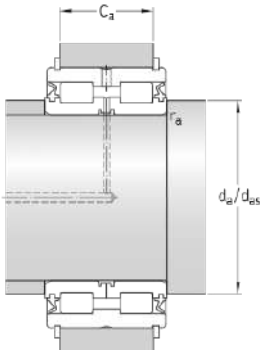


Dimensions

d	180 mm	Bore diameter
D	280 mm	Outside diameter
B	136 mm	Width
C	135 mm	Outer ring width (sealed bearing)
d_1	≈ 220 mm	Shoulder diameter inner ring
D_3	274 mm	Snap ring groove diameter at outer ring
E	259 mm	Raceway diameter outer ring
C_1	118.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	8.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	5.2 mm	Width snap ring groove outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 2 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 187 mm	Abutment diameter shaft
d_a	214 mm	Abutment diameter shaft
C_a	110 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm		Tolerance for abutment C_a
C_a 108 mm		Abutment width applying for DIN 471 snap rings (sealed brg.)
– 0.2 mm		Tolerance for abutment C_a
r_a max. 2 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	1 170 kN
Basic static load rating	C_0	2 120 kN
Fatigue load limit	P_u	228 kN
Limiting speed		450 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	30.8 kg

Associated products

Snap ring Seeger	SW 280
Snap ring in accordance with DIN 471	280x5

NNF 5038 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	290 mm
Width	136 mm

Performance

Basic dynamic load rating	1 190 kN
Basic static load rating	2 200 kN
Limiting speed	430 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

NNF 5040 ADA-2LSV

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	310 mm
Width	150 mm

Performance

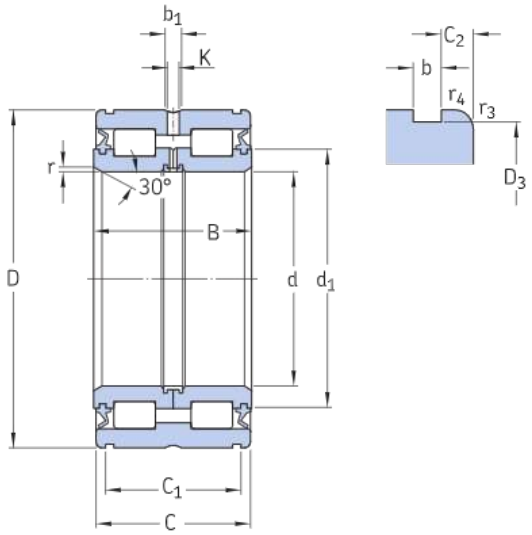
Basic dynamic load rating	1 450 kN
Basic static load rating	2 900 kN
Limiting speed	400 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

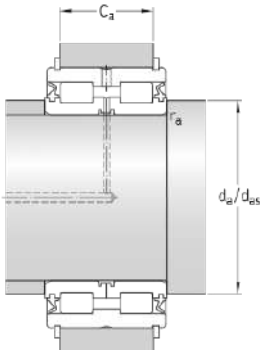


Dimensions

d	200 mm	Bore diameter
D	310 mm	Outside diameter
B	150 mm	Width
C	149 mm	Outer ring width (sealed bearing)
d_1	≈ 245 mm	Shoulder diameter inner ring
D_3	304 mm	Snap ring groove diameter at outer ring
E	284 mm	Raceway diameter outer ring
C_1	128.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	10.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	6.3 mm	Width snap ring groove outer ring
b_1	8 mm	Width annular lubrication groove outer ring
K	4 mm	Diameter lubrication hole (outer ring)
r	min. 2 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d_a	min. 207 mm	Abutment diameter shaft
d_a	239 mm	Abutment diameter shaft
C_a	120 mm	Abutment width applying for SW snap rings (sealed brg.)



– 0.2 mm		Tolerance for abutment C_a
C_a 116 mm		Abutment width applying for DIN 471 snap rings (sealed brg.)
– 0.2 mm		Tolerance for abutment C_a
r_a max. 2 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	1 450 kN
Basic static load rating	C_0	2 900 kN
Fatigue load limit	P_u	300 kN
Limiting speed		400 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	42 kg

Associated products

Snap ring Seeger	SW 310
Snap ring in accordance with DIN 471	310x6

NNF 5044 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	340 mm
Width	160 mm

Performance

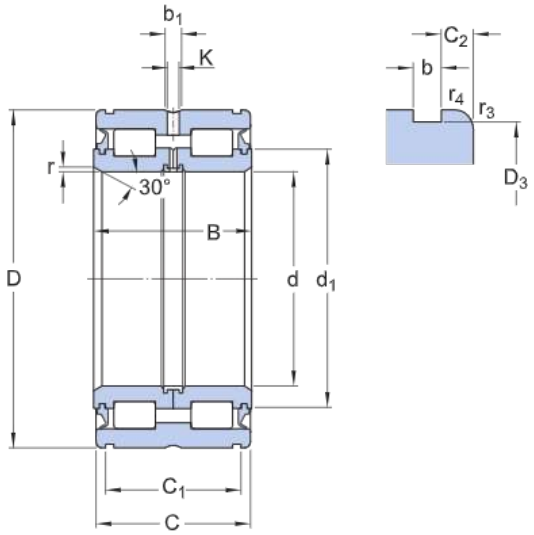
Basic dynamic load rating	1 610 kN
Basic static load rating	3 100 kN
Limiting speed	360 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

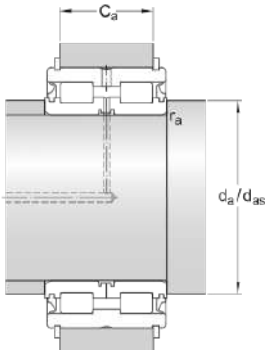


Dimensions

d	220 mm	Bore diameter
D	340 mm	Outside diameter
B	160 mm	Width
C	159 mm	Outer ring width (sealed bearing)
d_1	≈ 263.5 mm	Shoulder diameter inner ring
D_3	334 mm	Snap ring groove diameter at outer ring
C_1	138.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	10.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	6.3 mm	Width snap ring groove outer ring
b_1	11 mm	Width annular lubrication groove outer ring
K	6 mm	Diameter lubrication hole (outer ring)
r	min. 2 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 1 mm	Chamfer dimension

Abutment dimensions

d_a	min. 227 mm	Abutment diameter shaft
d_a	256 mm	Abutment diameter shaft
C_a	130 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	126 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 610 kN
Basic static load rating	C_0	3 100 kN
Fatigue load limit	P_u	315 kN
Limiting speed		360 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	53.8 kg

Associated products

Snap ring Seeger	SW 340
Snap ring in accordance with DIN 471	340x6

NNF 5048 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	360 mm
Width	160 mm

Performance

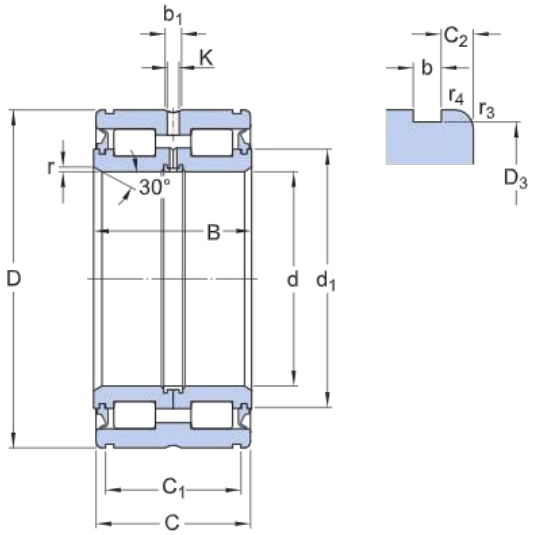
Basic dynamic load rating	1 680 kN
Basic static load rating	3 350 kN
Limiting speed	340 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

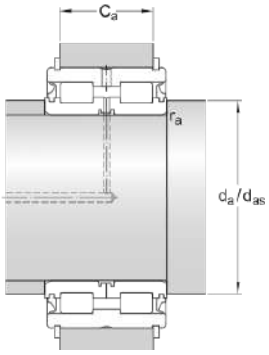


Dimensions

d	240 mm	Bore diameter
D	360 mm	Outside diameter
B	160 mm	Width
C	159 mm	Outer ring width (sealed bearing)
d_1	≈ 282.5 mm	Shoulder diameter inner ring
D_3	354 mm	Snap ring groove diameter at outer ring
C_1	138.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	10.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	6.3 mm	Width snap ring groove outer ring
b_1	9.5 mm	Width annular lubrication groove outer ring
K	6 mm	Diameter lubrication hole (outer ring)
r	min. 2 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 1 mm	Chamfer dimension

Abutment dimensions

d_a	min. 247 mm	Abutment diameter shaft
d_a	275 mm	Abutment diameter shaft
C_a	130 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	126 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 680 kN
Basic static load rating	C_0	3 350 kN
Fatigue load limit	P_u	335 kN
Limiting speed		340 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	57.5 kg

Associated products

Snap ring Seeger	SW 360
Snap ring in accordance with DIN 471	360x6

NNF 5052 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	400 mm
Width	190 mm

Performance

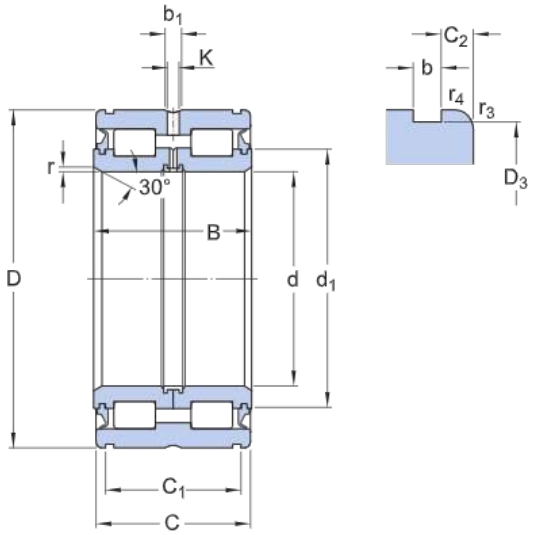
Basic dynamic load rating	2 420 kN
Basic static load rating	4 650 kN
Limiting speed	300 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

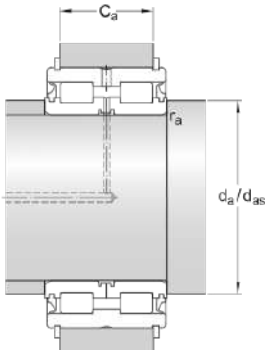


Dimensions

d	260 mm	Bore diameter
D	400 mm	Outside diameter
B	190 mm	Width
C	189 mm	Outer ring width (sealed bearing)
d_1	≈ 309 mm	Shoulder diameter inner ring
D_3	394 mm	Snap ring groove diameter at outer ring
C_1	162.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	13.4 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	6.3 mm	Width snap ring groove outer ring
b_1	9.5 mm	Width annular lubrication groove outer ring
K	6 mm	Diameter lubrication hole (outer ring)
r	min. 2 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension

Abutment dimensions

d_a	min. 268 mm	Abutment diameter shaft
d_a	300 mm	Abutment diameter shaft
C_a	154 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	150 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 420 kN
Basic static load rating	C_0	4 650 kN
Fatigue load limit	P_u	455 kN
Limiting speed		300 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	86.2 kg

Associated products

Snap ring Seeger	SW 400
Snap ring in accordance with DIN 471	400x6

NNF 5056 B-2LS

Double row full complement cylindrical roller bearing, NNF design, with integral sealing and relubrication feature

Double row full complement cylindrical roller bearings incorporate a maximum number of rollers and are therefore suitable for very heavy radial loads in combination with moderate speeds. Having three flanges on the two-piece inner ring and one central flange on the outer ring, NNF design bearings can locate the shaft axially in both directions. Two snap ring grooves in the outer ring simplify mounting and save space axially.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in both directions
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	420 mm
Width	190 mm

Performance

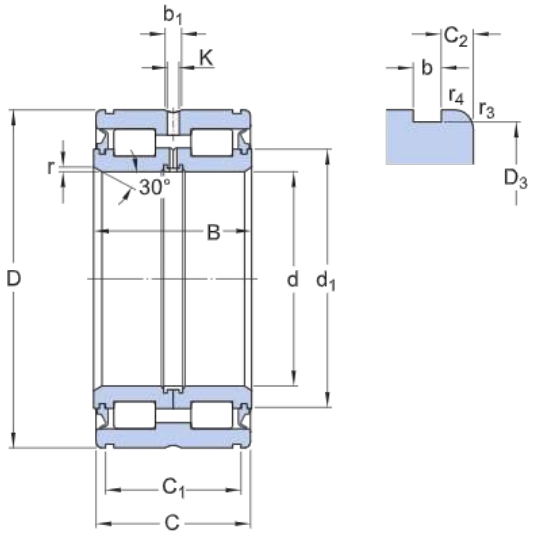
Basic dynamic load rating	2 550 kN
Basic static load rating	5 000 kN
Limiting speed	280 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	None
Lubricant	Grease
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With

Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

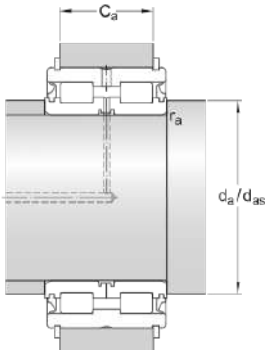


Dimensions

d	280 mm	Bore diameter
D	420 mm	Outside diameter
B	190 mm	Width
C	189 mm	Outer ring width (sealed bearing)
d_1	≈ 333 mm	Shoulder diameter inner ring
D_3	413 mm	Snap ring groove diameter at outer ring
C_1	163.2 mm	Distance between two snap ring grooves of the outer ring outside surface
	+ 0.2 mm	Tolerance for distance C_1
C_2	12.9 mm	Distance outer ring side face - snap ring groove (sealed bearing)
b	7.3 mm	Width snap ring groove outer ring
b_1	9.5 mm	Width annular lubrication groove outer ring
K	6 mm	Diameter lubrication hole (outer ring)
r	min. 2 mm	Chamfer dimension (sealed bearing)
$r_{3,4}$	min. 1.1 mm	Chamfer dimension

Abutment dimensions

d_a	min. 288 mm	Abutment diameter shaft
d_a	324 mm	Abutment diameter shaft
C_a	154 mm	Abutment width applying for SW snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a



C_a	149 mm	Abutment width applying for DIN 471 snap rings (sealed brg.)
	– 0.2 mm	Tolerance for abutment C_a
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 550 kN
Basic static load rating	C_0	5 000 kN
Fatigue load limit	P_u	490 kN
Limiting speed		280 r/min
Minimum load factor	k_r	0.4

Mass

Mass bearing	91 kg

Associated products

Snap ring Seeger	SW 420
Snap ring in accordance with DIN 471	420x7

NNU 4152 M/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	440 mm
Width	180 mm

Performance

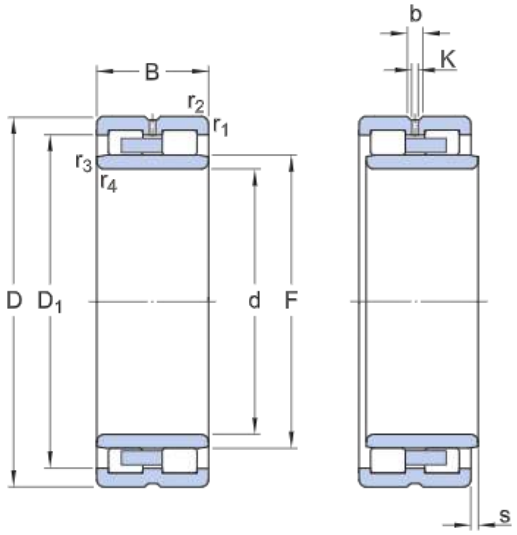
Basic dynamic load rating	2 200 kN
Basic static load rating	3 900 kN
Limiting speed	1 600 r/min
Reference speed	1 300 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

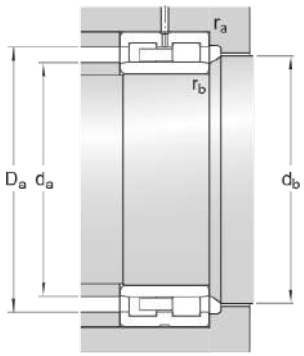
Technical Specification

Design variant/feature	NNU/W33



Dimensions

d	260 mm	Bore diameter
D	440 mm	Outside diameter
B	180 mm	Overall bearing width
D_1	≈ 387 mm	Shoulder diameter outer ring
F	306 mm	Raceway diameter inner ring
b	13.9 mm	Width of annular groove
K	7.5 mm	Diameter lubrication hole
$r_{1,2}$	min. 4 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 4 mm	Chamfer dimension inner ring
s	max. 5.1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

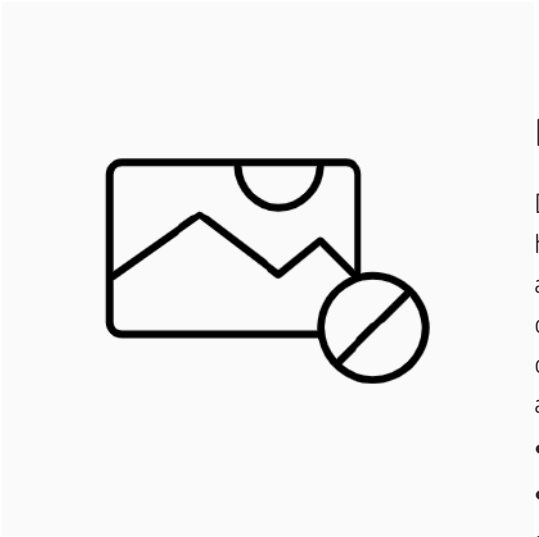
d_a	min. 276 mm	Abutment diameter spacer sleeve
d_a	max. 300 mm	Abutment diameter spacer sleeve
d_b	min. 310 mm	Abutment diameter shaft
D_a	max. 424 mm	Abutment diameter spacer sleeve / housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 200 kN
Basic static load rating	C_0	3 900 kN
Fatigue load limit	P_u	365 kN
Reference speed		1 300 r/min
Limiting speed		1 600 r/min
Calculation factor	k_r	0.31

Mass

Mass bearing	110 kg



NNU 4156 M/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	460 mm
Width	180 mm

Performance

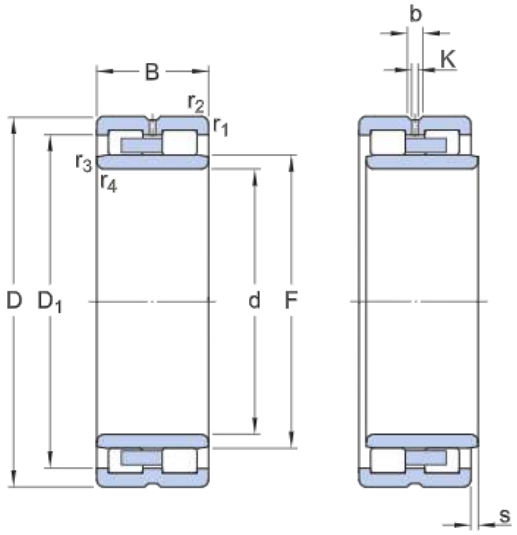
Basic dynamic load rating	2 550 kN
Basic static load rating	4 750 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

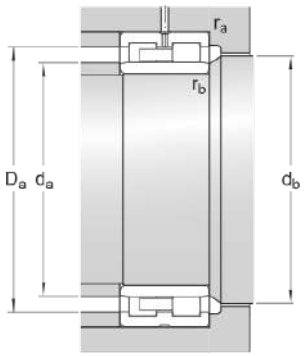
Technical Specification

Design variant/feature	NNU/W33



Dimensions

d	280 mm	Bore diameter
D	460 mm	Outside diameter
B	180 mm	Overall bearing width
D_1	≈ 407 mm	Shoulder diameter outer ring
F	326 mm	Raceway diameter inner ring
b	13.9 mm	Width of annular groove
K	7.5 mm	Diameter lubrication hole
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 6.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

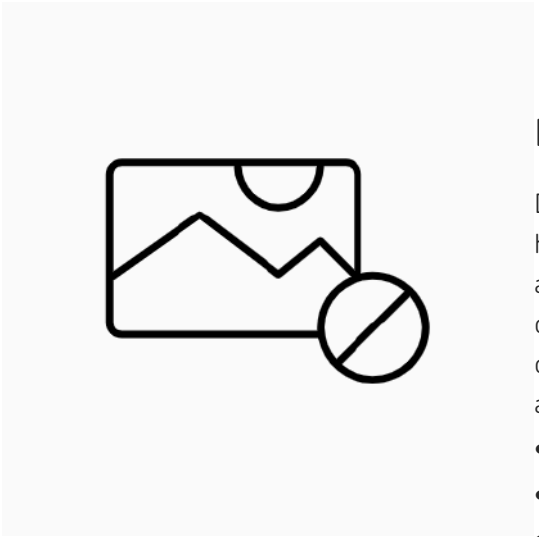
d_a	min. 300 mm	Abutment diameter spacer sleeve
d_a	max. 318 mm	Abutment diameter spacer sleeve
d_b	min. 330 mm	Abutment diameter shaft
D_a	max. 440 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 550 kN
Basic static load rating	C_0	4 750 kN
Fatigue load limit	P_u	440 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Calculation factor	k_r	0.34

Mass

Mass bearing	120 kg



NNU 4156 M/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	460 mm
Width	180 mm

Performance

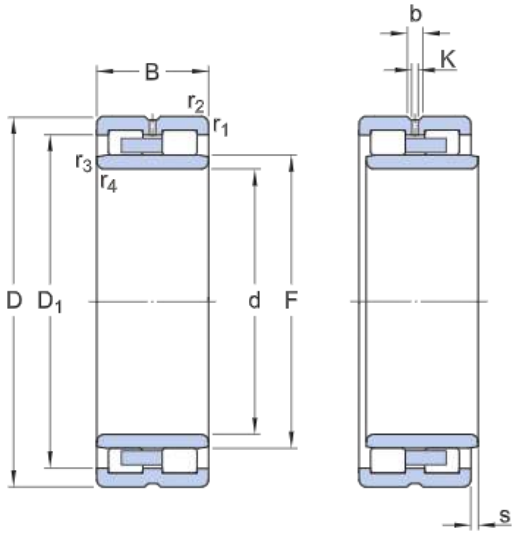
Basic dynamic load rating	2 550 kN
Basic static load rating	4 750 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

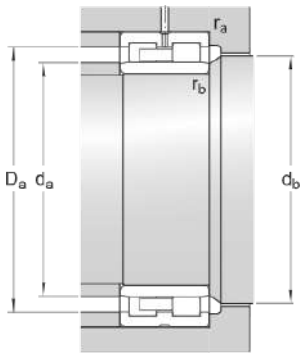
Technical Specification

Design variant/feature	NNU/W33



Dimensions

d	280 mm	Bore diameter
D	460 mm	Outside diameter
B	180 mm	Overall bearing width
D_1	≈ 407 mm	Shoulder diameter outer ring
F	326 mm	Raceway diameter inner ring
b	13.9 mm	Width of annular groove
K	7.5 mm	Diameter lubrication hole
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 6.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

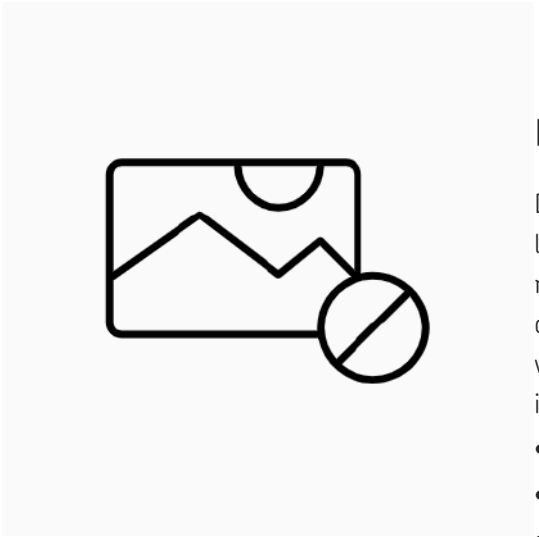
d_a	min. 300 mm	Abutment diameter spacer sleeve
d_a	max. 318 mm	Abutment diameter spacer sleeve
d_b	min. 330 mm	Abutment diameter shaft
D_a	max. 440 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 550 kN
Basic static load rating	C_0	4 750 kN
Fatigue load limit	P_u	440 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Calculation factor	k_r	0.34

Mass

Mass bearing	120 kg



NNU 4164 F

Double row cylindrical roller bearing, NNU design

Double row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having three flanges on the outer ring and no flanges on the inner ring, NNU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Separable design
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	540 mm
Width	218 mm

Performance

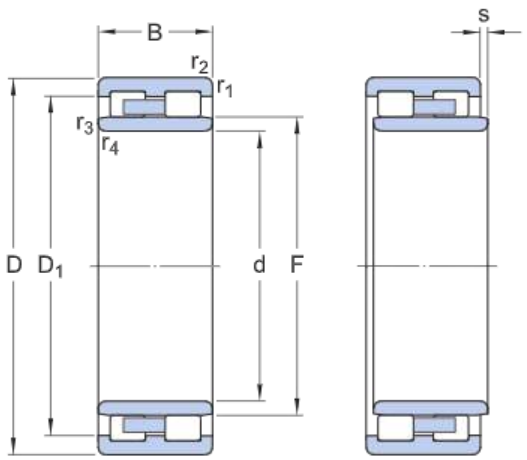
Basic dynamic load rating	3 690 kN
Basic static load rating	6 200 kN
Limiting speed	1 300 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

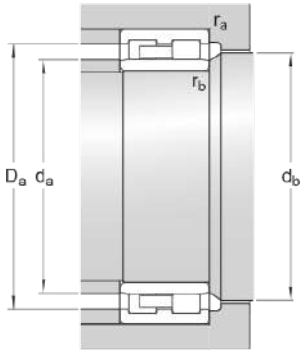
Technical Specification

Design variant/feature	NNU



Dimensions

d	320 mm	Bore diameter
D	540 mm	Outside diameter
B	218 mm	Overall bearing width
D_1	≈ 476 mm	Shoulder diameter outer ring
F	375 mm	Raceway diameter inner ring
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 8.9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

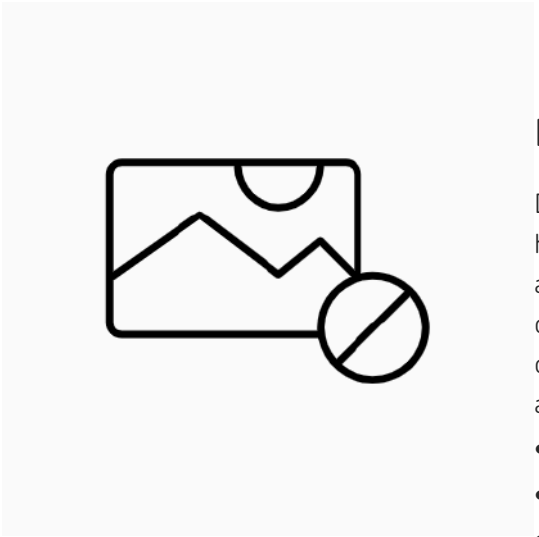
d_a	min. 340 mm	Abutment diameter spacer sleeve
d_a	max. 365 mm	Abutment diameter spacer sleeve
d_b	min. 379 mm	Abutment diameter shaft
D_a	max. 520 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 690 kN
Basic static load rating	C_0	6 200 kN
Fatigue load limit	P_u	530 kN
Reference speed		1 000 r/min
Limiting speed		1 300 r/min
Calculation factor	k_r	0.13

Mass

Mass bearing	200 kg



NNU 4168 M/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	580 mm
Width	243 mm

Performance

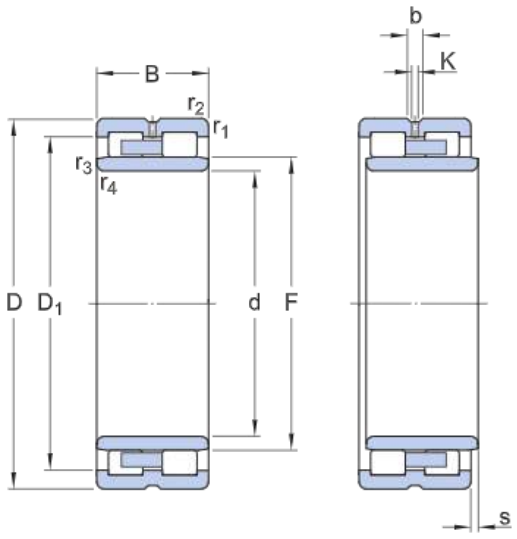
Basic dynamic load rating	4 020 kN
Basic static load rating	7 500 kN
Limiting speed	1 200 r/min
Reference speed	950 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU/W33

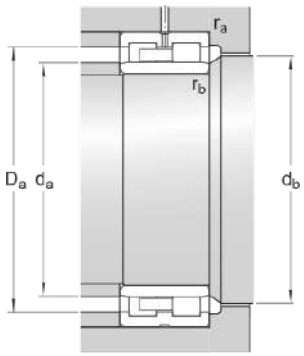


Dimensions

d	340 mm	Bore diameter
D	580 mm	Outside diameter
B	243 mm	Overall bearing width
D_1	≈ 510 mm	Shoulder diameter outer ring
F	402 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 10 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 360 mm	Abutment diameter spacer sleeve
d_a	max. 392 mm	Abutment diameter spacer sleeve
d_b	min. 407 mm	Abutment diameter shaft
D_a	max. 560 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius



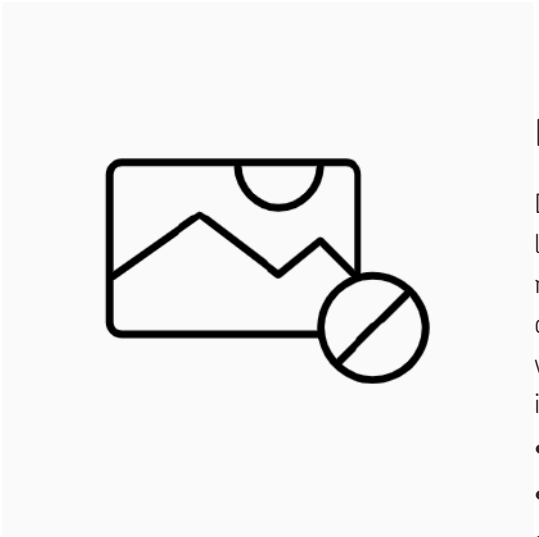
r_b max. 4 mm — Fillet radius

Calculation data

Basic dynamic load rating	C	4 020 kN
Basic static load rating	C_0	7 500 kN
Fatigue load limit	P_u	620 kN
Reference speed		950 r/min
Limiting speed		1 200 r/min
Calculation factor	k_r	0.35

Mass

Mass bearing	260 kg



NNU 4176 M

Double row cylindrical roller bearing, NNU design

Double row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having three flanges on the outer ring and no flanges on the inner ring, NNU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Separable design
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	620 mm
Width	243 mm

Performance

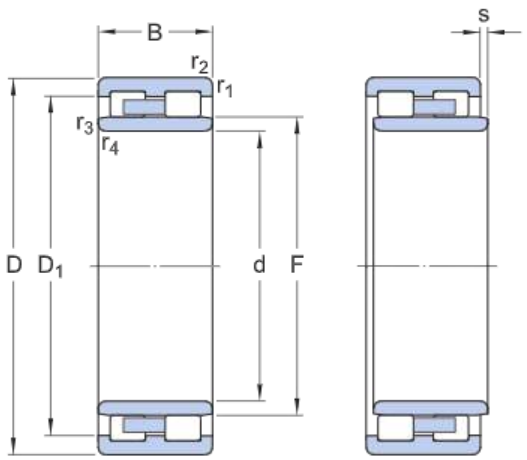
Basic dynamic load rating	4 290 kN
Basic static load rating	8 500 kN
Limiting speed	1 100 r/min
Reference speed	850 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

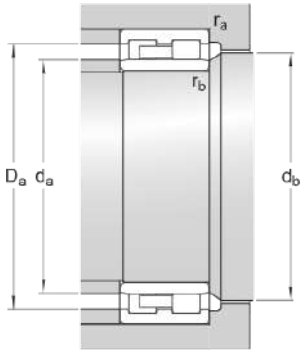
Technical Specification

Design variant/feature	NNU



Dimensions

d	380 mm	Bore diameter
D	620 mm	Outside diameter
B	243 mm	Overall bearing width
D_1	≈ 550 mm	Shoulder diameter outer ring
F	442 mm	Raceway diameter inner ring
$r_{1,2}$	min. 5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 5 mm	Chamfer dimension inner ring
s	max. 7.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

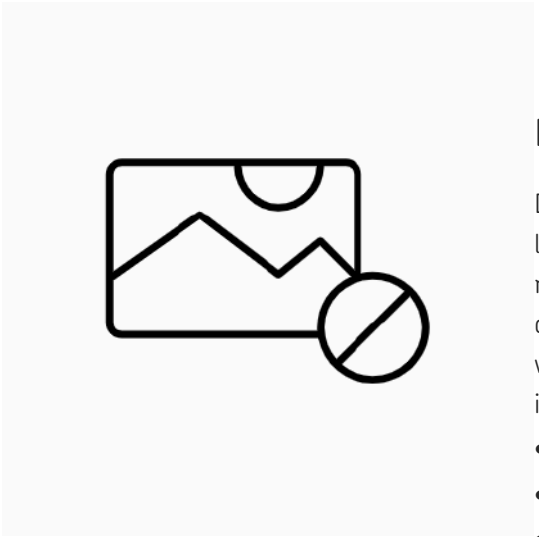
d_a	min. 400 mm	Abutment diameter spacer sleeve
d_a	max. 434 mm	Abutment diameter spacer sleeve
d_b	min. 447 mm	Abutment diameter shaft
D_a	max. 600 mm	Abutment diameter spacer sleeve / housing
r_a	max. 4 mm	Fillet radius
r_b	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 290 kN
Basic static load rating	C_0	8 500 kN
Fatigue load limit	P_u	680 kN
Reference speed		850 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.33

Mass

Mass bearing	285 kg



NNU 4192 M

Double row cylindrical roller bearing, NNU design

Double row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having three flanges on the outer ring and no flanges on the inner ring, NNU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Separable design
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	460 mm
Outside diameter	760 mm
Width	300 mm

Performance

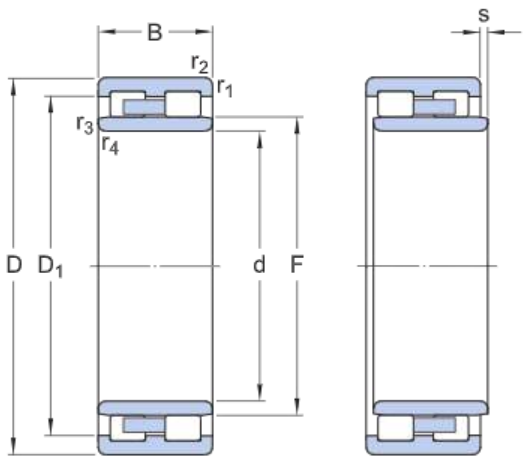
Basic dynamic load rating	6 440 kN
Basic static load rating	12 900 kN
Limiting speed	850 r/min
Reference speed	670 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

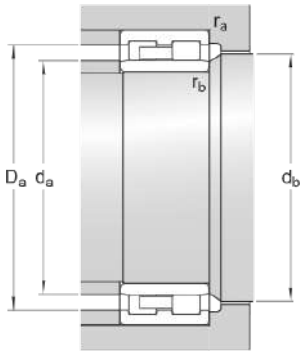
Technical Specification

Design variant/feature	NNU



Dimensions

d	460 mm	Bore diameter
D	760 mm	Outside diameter
B	300 mm	Overall bearing width
D_1	≈ 672 mm	Shoulder diameter outer ring
F	537 mm	Raceway diameter inner ring
$r_{1,2}$	min. 7.5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension inner ring
s	max. 12.8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

d_a	min. 493 mm	Abutment diameter spacer sleeve
d_a	max. 526 mm	Abutment diameter spacer sleeve
d_b	min. 542 mm	Abutment diameter shaft
D_a	max. 727 mm	Abutment diameter spacer sleeve / housing
r_a	max. 6 mm	Fillet radius
r_b	max. 6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	6 440 kN
Basic static load rating	C_0	12 900 kN
Fatigue load limit	P_u	980 kN
Reference speed		670 r/min
Limiting speed		850 r/min
Calculation factor	k_r	0.34

Mass

Mass bearing	535 kg

NNU 4888 KM/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	440 mm
Outside diameter	540 mm
Width	100 mm

Performance

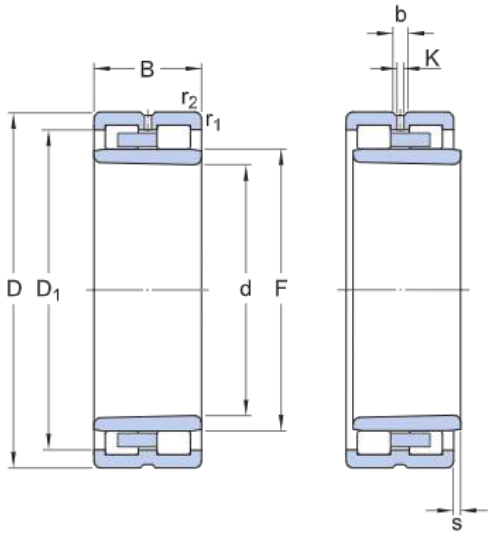
Basic dynamic load rating	1 010 kN
Basic static load rating	2 900 kN
Limiting speed	1 100 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Tapered 1:12
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

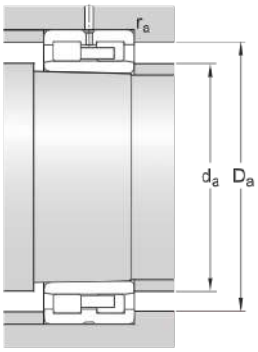
Technical Specification

Design variant/feature	NNU K/W33



Dimensions

d	440 mm	Bore diameter
D	540 mm	Outside diameter
B	100 mm	Overall bearing width
D_1	≈ 505 mm	Shoulder diameter outer ring
F	470 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 2.1 mm	Chamfer dimension outer ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other



Abutment dimensions

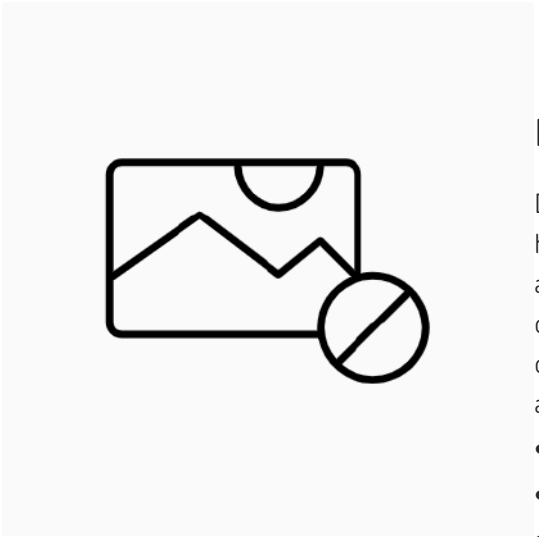
d_a	min. 448 mm	Abutment diameter spacer sleeve
d_a	max. 464 mm	Abutment diameter spacer sleeve
D_a	max. 529 mm	Abutment diameter spacer sleeve / housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 010 kN
Basic static load rating	C_0	2 900 kN
Fatigue load limit	P_u	186 kN
Reference speed		1 000 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.12

Mass

Mass bearing	46 kg



NNU 4888 M/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	440 mm
Outside diameter	540 mm
Width	100 mm

Performance

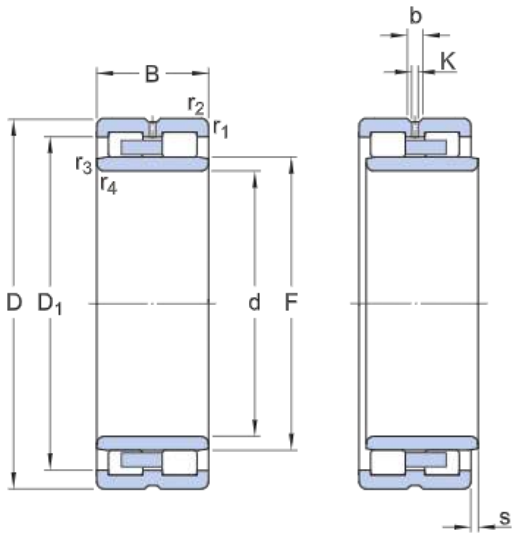
Basic dynamic load rating	1 170 kN
Basic static load rating	3 400 kN
Limiting speed	1 100 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU/W33

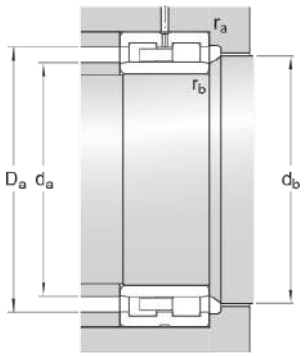


Dimensions

d	440 mm	Bore diameter
D	540 mm	Outside diameter
B	100 mm	Overall bearing width
D_1	≈ 505 mm	Shoulder diameter outer ring
F	470 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 2.1 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 2.1 mm	Chamfer dimension inner ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 448 mm	Abutment diameter spacer sleeve
d_a	max. 464 mm	Abutment diameter spacer sleeve
d_b	min. 476 mm	Abutment diameter shaft
D_a	max. 529 mm	Abutment diameter spacer sleeve / housing
r_a	max. 1.5 mm	Fillet radius



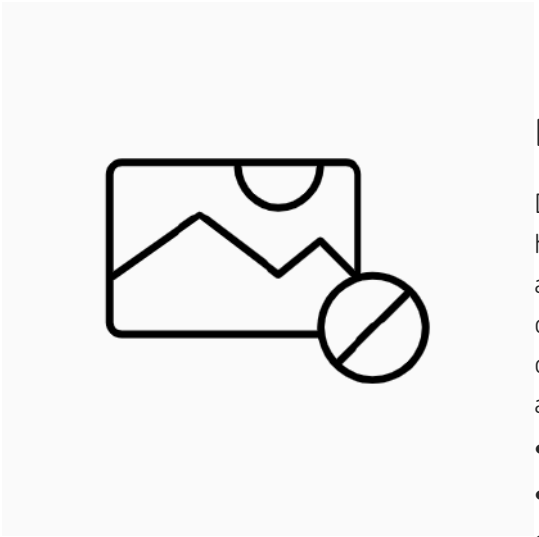
r_b max. 2 mm — Fillet radius

Calculation data

Basic dynamic load rating	C	1 170 kN
Basic static load rating	C_0	3 400 kN
Fatigue load limit	P_u	216 kN
Reference speed		1 000 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.12

Mass

Mass bearing	46 kg



NNU 41/500 M/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	830 mm
Width	325 mm

Performance

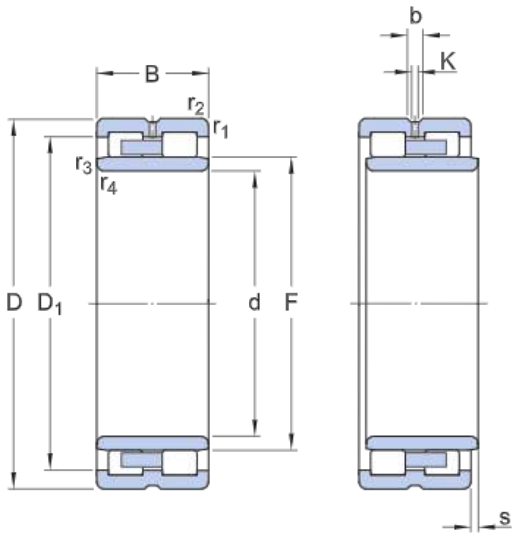
Basic dynamic load rating	7 480 kN
Basic static load rating	15 000 kN
Limiting speed	800 r/min
Reference speed	600 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU/W33

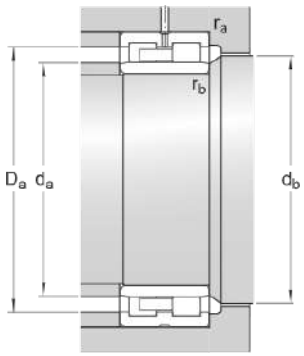


Dimensions

d	500 mm	Bore diameter
D	830 mm	Outside diameter
B	325 mm	Overall bearing width
D_1	≈ 734 mm	Shoulder diameter outer ring
F	582 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 7.5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension inner ring
s	max. 14.1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 533 mm	Abutment diameter spacer sleeve
d_a	max. 568 mm	Abutment diameter spacer sleeve
d_b	min. 587 mm	Abutment diameter shaft
D_a	max. 797 mm	Abutment diameter spacer sleeve / housing
r_a	max. 6 mm	Fillet radius



r_b max. 6 mm

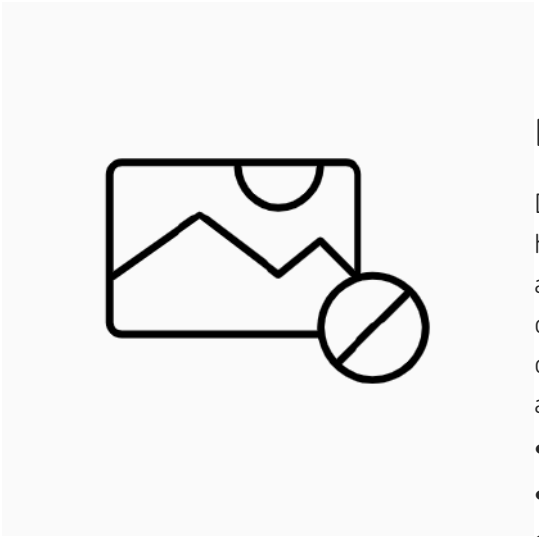
Fillet radius

Calculation data

Basic dynamic load rating	C	7 480 kN
Basic static load rating	C_0	15 000 kN
Fatigue load limit	P_u	1 120 kN
Reference speed		600 r/min
Limiting speed		800 r/min
Calculation factor	k_r	0.33

Mass

Mass bearing	693 kg



NNU 41/530 M/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	530 mm
Outside diameter	870 mm
Width	335 mm

Performance

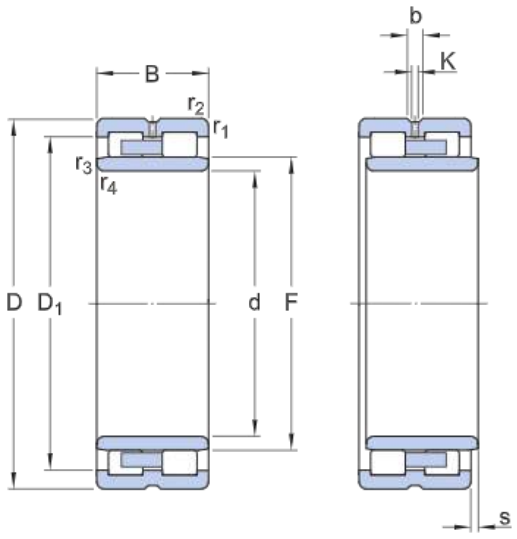
Basic dynamic load rating	7 810 kN
Basic static load rating	16 000 kN
Limiting speed	750 r/min
Reference speed	560 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU/W33

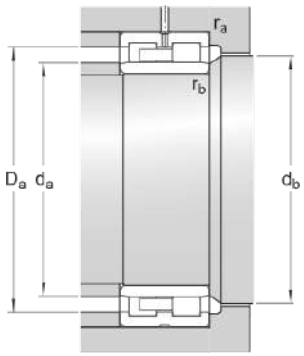


Dimensions

d	530 mm	Bore diameter
D	870 mm	Outside diameter
B	335 mm	Overall bearing width
D_1	≈ 770 mm	Shoulder diameter outer ring
F	618 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 7.5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension inner ring
s	max. 17 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 563 mm	Abutment diameter spacer sleeve
d_a	max. 604 mm	Abutment diameter spacer sleeve
d_b	min. 623 mm	Abutment diameter shaft
D_a	max. 837 mm	Abutment diameter spacer sleeve / housing
r_a	max. 6 mm	Fillet radius



r_b max. 6 mm

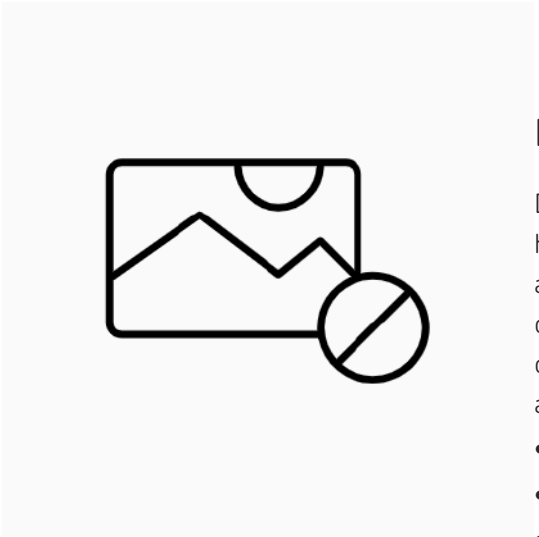
Fillet radius

Calculation data

Basic dynamic load rating	C	7 810 kN
Basic static load rating	C_0	16 000 kN
Fatigue load limit	P_u	1 160 kN
Reference speed		560 r/min
Limiting speed		750 r/min
Calculation factor	k_r	0.32

Mass

Mass bearing	790 kg



NNU 41/600 M/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	600 mm
Outside diameter	980 mm
Width	375 mm

Performance

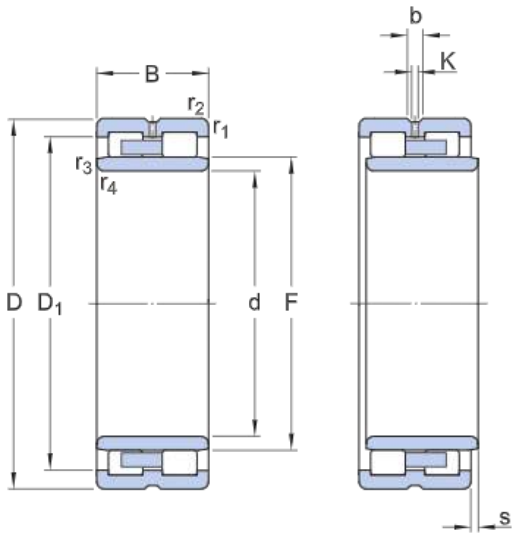
Basic dynamic load rating	9 900 kN
Basic static load rating	21 200 kN
Limiting speed	630 r/min
Reference speed	480 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU/W33

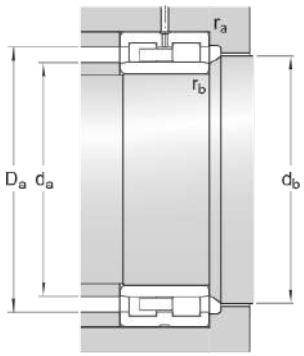


Dimensions

d	600 mm	Bore diameter
D	980 mm	Outside diameter
B	375 mm	Overall bearing width
D_1	≈ 868 mm	Shoulder diameter outer ring
F	699 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 7.5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension inner ring
s	max. 18.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 634 mm	Abutment diameter spacer sleeve
d_a	max. 682 mm	Abutment diameter spacer sleeve
d_b	min. 706 mm	Abutment diameter shaft
D_a	max. 946 mm	Abutment diameter spacer sleeve / housing
r_a	max. 6 mm	Fillet radius



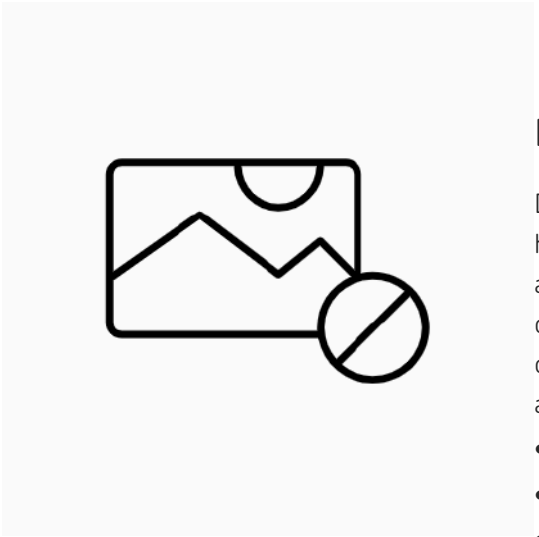
r_b max. 6 mm — Fillet radius

Calculation data

Basic dynamic load rating	C	9 900 kN
Basic static load rating	C_0	21 200 kN
Fatigue load limit	P_u	1 460 kN
Reference speed		480 r/min
Limiting speed		630 r/min
Calculation factor	k_r	0.33

Mass

Mass bearing	1 100 kg



NNU 41/710 M/W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	710 mm
Outside diameter	1 150 mm
Width	438 mm

Performance

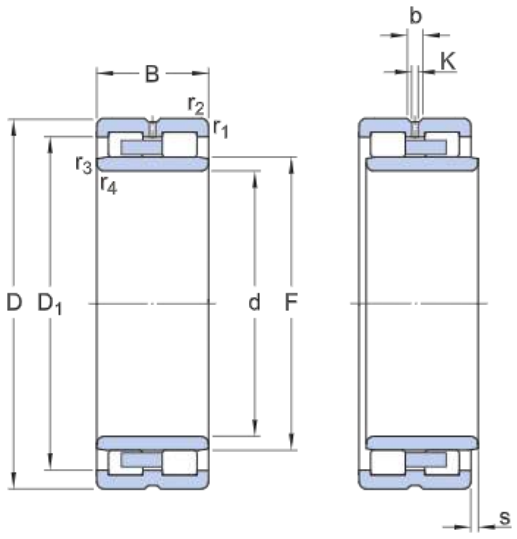
Basic dynamic load rating	13 400 kN
Basic static load rating	28 500 kN
Limiting speed	500 r/min
Reference speed	380 r/min

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	NNU/W33

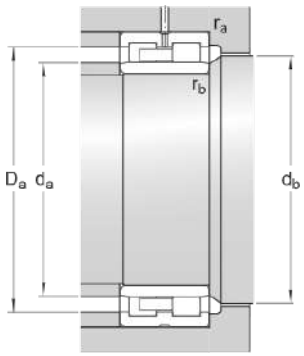


Dimensions

d	710 mm	Bore diameter
D	1 150 mm	Outside diameter
B	438 mm	Overall bearing width
D_1	≈ 1 024 mm	Shoulder diameter outer ring
F	820 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole
$r_{1,2}$	min. 9.5 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 9.5 mm	Chamfer dimension inner ring
s	max. 20.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other

Abutment dimensions

d_a	min. 750 mm	Abutment diameter spacer sleeve
d_a	max. 800 mm	Abutment diameter spacer sleeve
d_b	min. 826 mm	Abutment diameter shaft
D_a	max. 1 110 mm	Abutment diameter spacer sleeve / housing



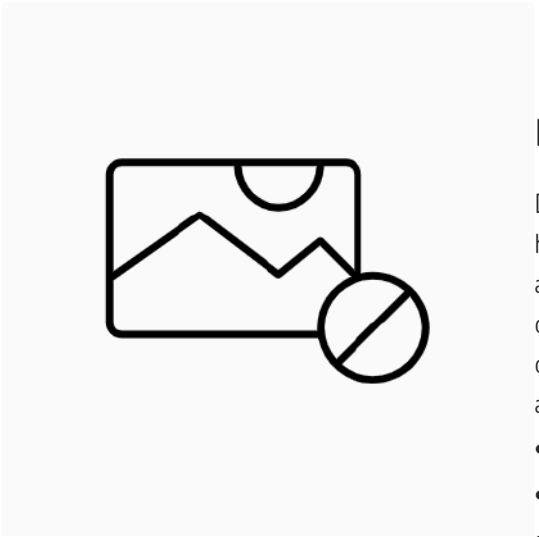
r_a max. 8 mm		Fillet radius
r_b max. 8 mm		Fillet radius

Calculation data

Basic dynamic load rating	C	13 400 kN
Basic static load rating	C_0	28 500 kN
Fatigue load limit	P_u	1 900 kN
Reference speed		380 r/min
Limiting speed		500 r/min
Calculation factor	k_r	0.32

Mass

Mass bearing		1 790 kg



NNUP 4964 B/HB1W33

Double row cylindrical roller bearing

Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	440 mm
Width	118 mm

Performance

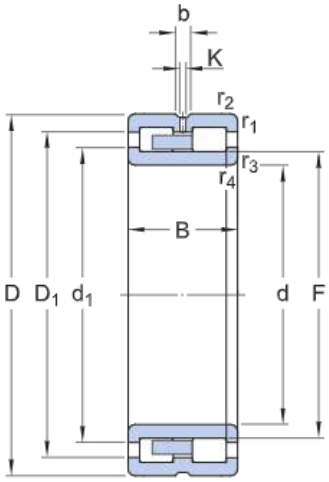
Basic dynamic load rating	1 020 kN
Basic static load rating	2 360 kN
Limiting speed	1 500 r/min
Reference speed	1 400 r/min

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	3
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

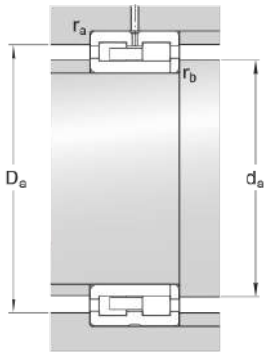
Technical Specification

Design variant/feature	NNUP/W33



Dimensions

d	320 mm	Bore diameter
D	440 mm	Outside diameter
B	118 mm	Overall bearing width
d_1	≈ 369 mm	Shoulder diameter inner ring
D_1	≈ 399 mm	Shoulder diameter outer ring
F	359 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole
$r_{1,2}$	min. 3 mm	Chamfer dimension inner ring
$r_{1,2}$	min. 3 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 3 mm	Chamfer dimension inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension outer ring



Abutment dimensions

d_a	min. 334 mm	Abutment diameter spacer sleeve
D_a	max. 426 mm	Abutment diameter spacer sleeve / housing
r_a	max. 2.5 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 020 kN
Basic static load rating	C_0	2 360 kN
Fatigue load limit	P_u	228 kN
Reference speed		1 400 r/min
Limiting speed		1 500 r/min
Calculation factor	k_r	0.17

Mass

Mass bearing	57 kg

NU 202 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	15 mm
Outside diameter	35 mm
Width	11 mm

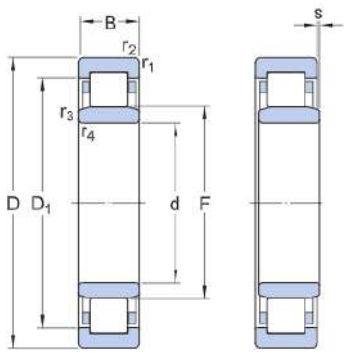
Performance

Basic dynamic load rating	12.5 kN
Basic static load rating	10.2 kN
Limiting speed	26 000 r/min
Reference speed	22 000 r/min

Properties

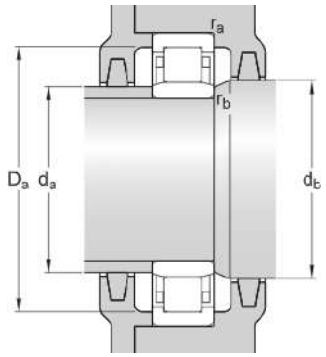
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	15 mm	Bore diameter
D	35 mm	Outside diameter
B	11 mm	Width
D_1	≈ 27.7 mm	Shoulder diameter of outer ring
F	19.3 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 17.4 mm	Diameter of spacer sleeve
d_a	max. 18.4 mm	Diameter of spacer sleeve
d_b	min. 21 mm	Diameter of shaft abutment
D_a	max. 31.3 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet
r_b	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	12.5 kN
Basic static load rating	C_0	10.2 kN
Fatigue load limit	P_u	1.22 kN
Reference speed		22 000 r/min
Limiting speed		26 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2

Calculation factor	Y	0.6

Mass

Mass	0.047 kg

NU 202 ECPHA

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	15 mm
Outside diameter	35 mm
Width	11 mm

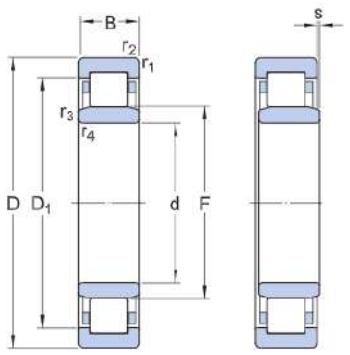
Performance

Basic dynamic load rating	12.5 kN
Basic static load rating	10.2 kN
Limiting speed	34 000 r/min
Reference speed	22 000 r/min

Properties

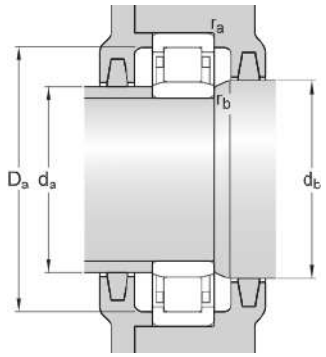
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	15 mm	Bore diameter
D	35 mm	Outside diameter
B	11 mm	Width
D_1	≈ 28.05 mm	Shoulder diameter of outer ring
F	19.3 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 17.4 mm	Diameter of spacer sleeve
d_a	max. 18.4 mm	Diameter of spacer sleeve
d_b	min. 21 mm	Diameter of shaft abutment
D_a	max. 31.3 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet
r_b	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	12.5 kN
Basic static load rating	C_0	10.2 kN
Fatigue load limit	P_u	1.22 kN
Reference speed		22 000 r/min
Limiting speed		34 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2

Calculation factor	Y	0.6

Mass

Mass	0.048 kg

NU 203 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	12 mm

Performance

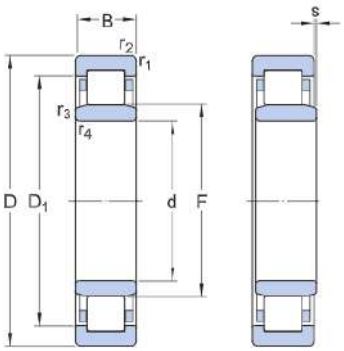
Basic dynamic load rating	20 kN
Basic static load rating	14.3 kN
Limiting speed	22 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

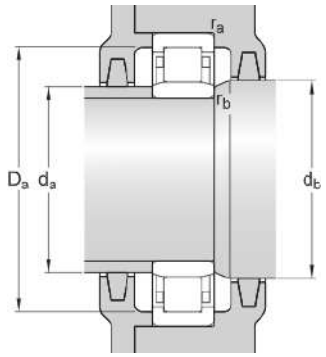
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	12 mm	Width
D_1	≈ 32 mm	Shoulder diameter of outer ring
F	22.1 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 19.9 mm	Diameter of spacer sleeve
d_a	max. 21.1 mm	Diameter of spacer sleeve
d_b	min. 24 mm	Diameter of shaft abutment
D_a	max. 36 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet
r_b	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	20 kN
Basic static load rating	C_0	14.3 kN
Fatigue load limit	P_u	1.73 kN

Reference speed		20 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.068 kg

NU 203 ECPHA

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	12 mm

Performance

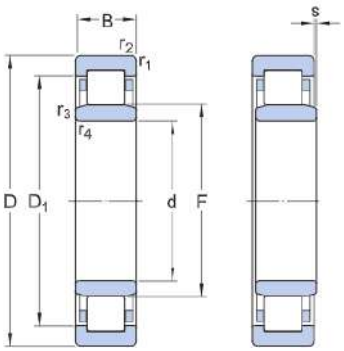
Basic dynamic load rating	20 kN
Basic static load rating	14.3 kN
Limiting speed	30 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

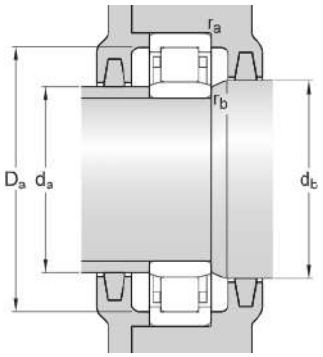
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	12 mm	Width
D_1	≈ 32.35 mm	Shoulder diameter of outer ring
F	22.1 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 19.9 mm	Diameter of spacer sleeve
d_a	max. 21.1 mm	Diameter of spacer sleeve
d_b	min. 24 mm	Diameter of shaft abutment
D_a	max. 36 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet
r_b	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	20 kN
Basic static load rating	C_0	14.3 kN
Fatigue load limit	P_u	1.73 kN

Reference speed		20 000 r/min
Limiting speed		30 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.07 kg

NU 204 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

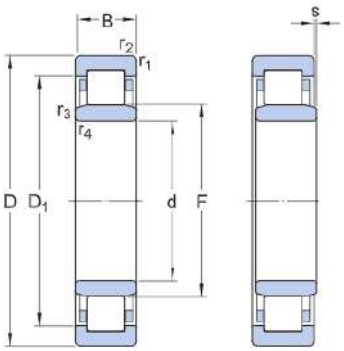
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	30 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

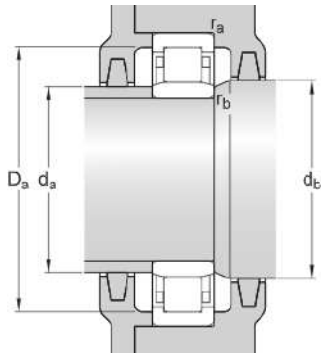
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
D_1	≈ 38.8 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 24 mm	Diameter of spacer sleeve
d_a	max. 25.4 mm	Diameter of spacer sleeve
d_b	min. 28 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN
Fatigue load limit	P_u	2.75 kN

Reference speed		17 000 r/min
Limiting speed		30 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.12 kg

NU 204 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

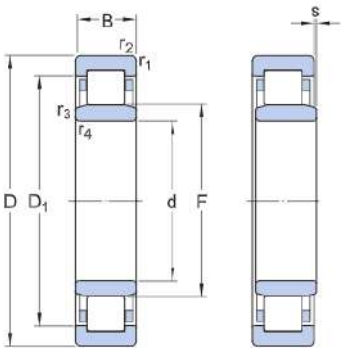
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	19 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

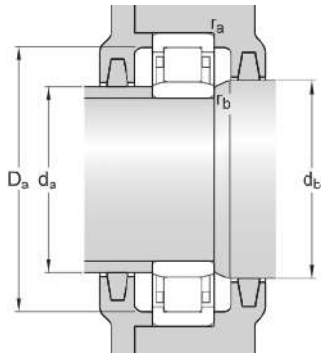
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
D_1	≈ 38.44 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 24 mm	Diameter of spacer sleeve
d_a	max. 25.4 mm	Diameter of spacer sleeve
d_b	min. 28 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN
Fatigue load limit	P_u	2.75 kN

Reference speed		17 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.11 kg

NU 204 ECPHA

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

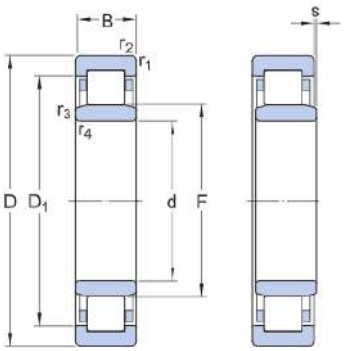
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	24 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

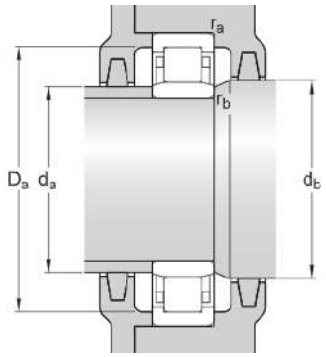
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
D_1	≈ 38.8 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 24 mm	Diameter of spacer sleeve
d_a	max. 25.4 mm	Diameter of spacer sleeve
d_b	min. 28 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN
Fatigue load limit	P_u	2.75 kN

Reference speed		17 000 r/min
Limiting speed		24 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.11 kg

NU 205 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

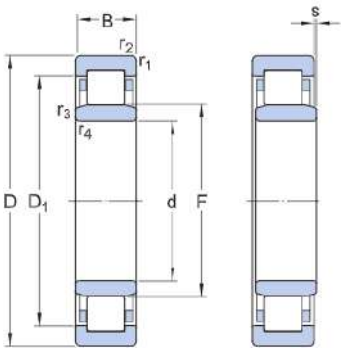
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	26 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

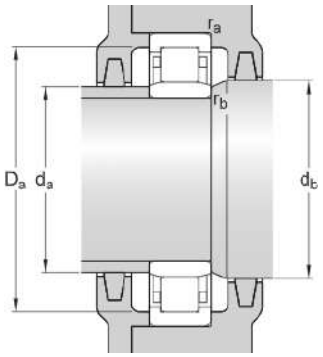
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
D_1	≈ 43.8 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 28.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 33 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN
Fatigue load limit	P_u	3.35 kN

Reference speed		15 000 r/min
Limiting speed		26 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.15 kg

Associated products

Angle ring	HJ 205 EC

NU 205 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

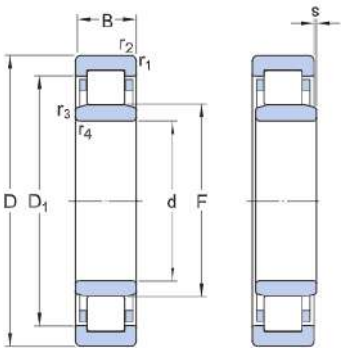
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	16 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

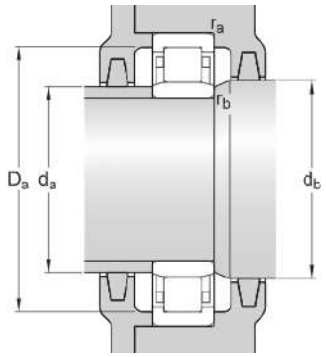
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
D_1	≈ 43.3 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 28.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 33 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN
Fatigue load limit	P_u	3.35 kN

Reference speed		15 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.13 kg

Associated products

Angle ring	HJ 205 EC

NU 205 ECPHA

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

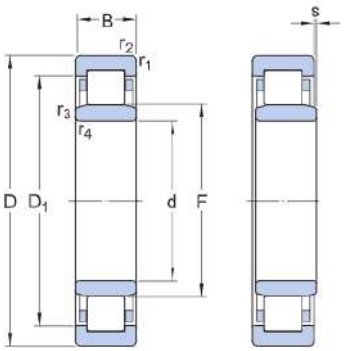
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	22 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

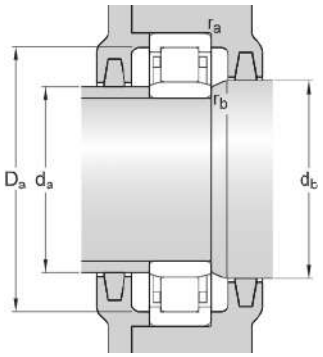
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
D_1	≈ 43.8 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 28.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 33 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN
Fatigue load limit	P_u	3.35 kN

Reference speed		15 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.13 kg

Associated products

Angle ring	HJ 205 EC

NU 206 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

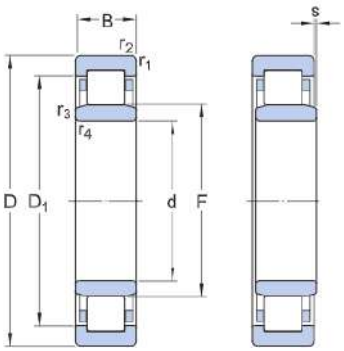
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

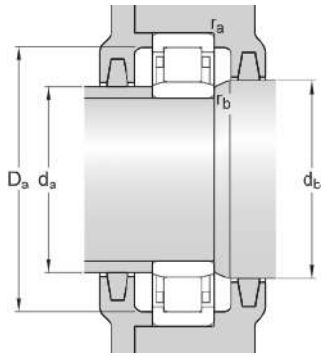
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
D_1	≈ 52.08 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 34.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 39 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.5 kN

Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.21 kg

NU 206 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

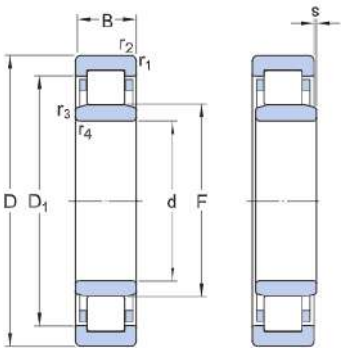
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	22 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

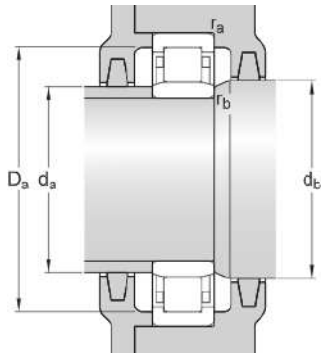
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
D_1	≈ 52.45 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 34.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 39 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.5 kN

Reference speed		13 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.23 kg

Associated products

Angle ring	HJ 206 EC

NU 206 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

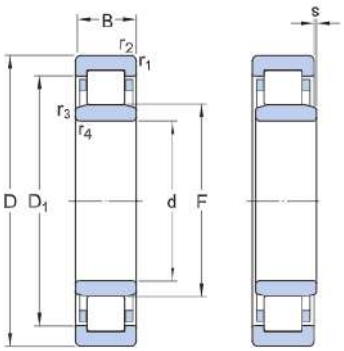
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

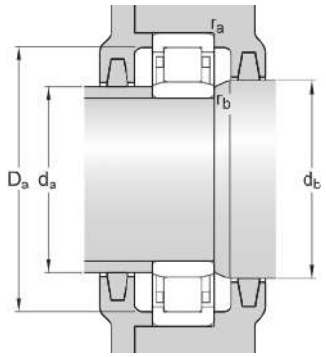
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
D_1	≈ 52.08 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 34.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 39 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.5 kN

Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.2 kg

Associated products

Angle ring	HJ 206 EC

NU 206 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

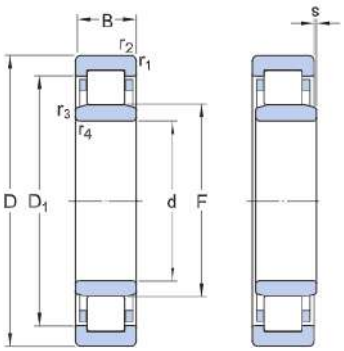
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

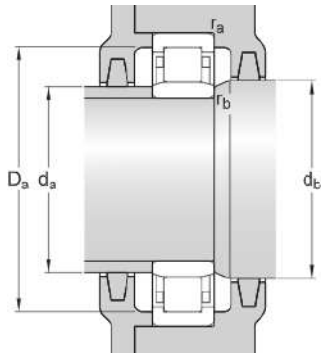
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
D_1	≈ 52.08 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 34.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 39 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.5 kN

Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.2 kg

Associated products

Angle ring	HJ 206 EC

NU 207 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

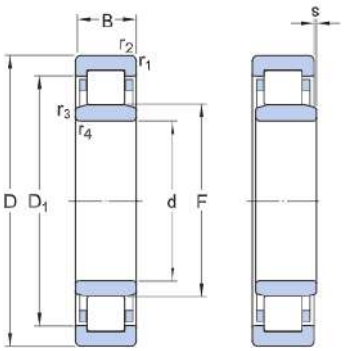
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

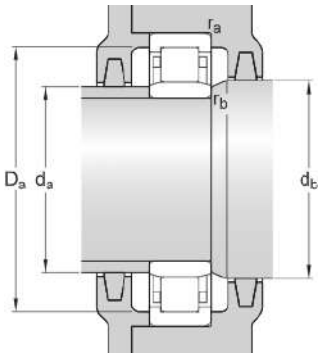
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 39.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 46 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.31 kg

Associated products

Angle ring	HJ 207 EC

NU 207 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

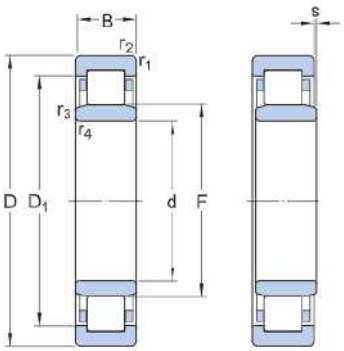
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

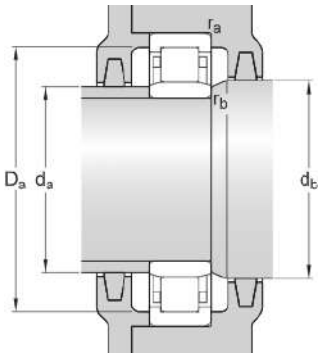
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 39.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 46 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.34 kg

Associated products

Angle ring	HJ 207 EC

NU 207 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

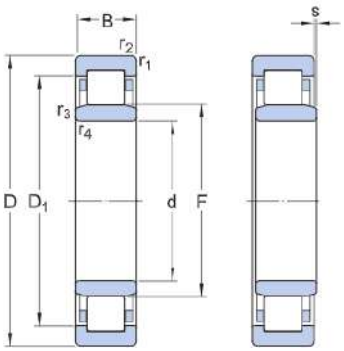
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	18 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

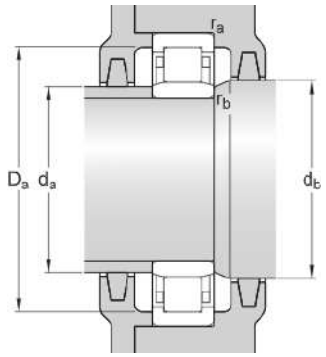
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
D_1	≈ 60.7 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 39.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 46 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.35 kg

Associated products

Angle ring	HJ 207 EC

NU 207 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

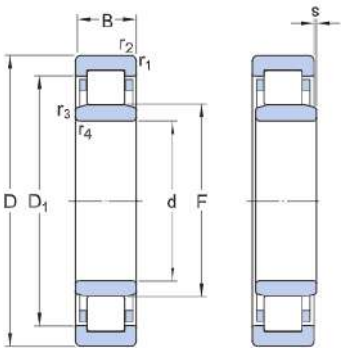
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

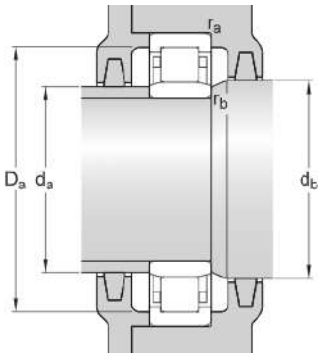
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 39.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 46 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.29 kg

Associated products

Angle ring	HJ 207 EC

NU 207 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

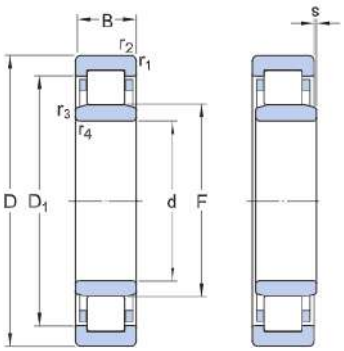
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

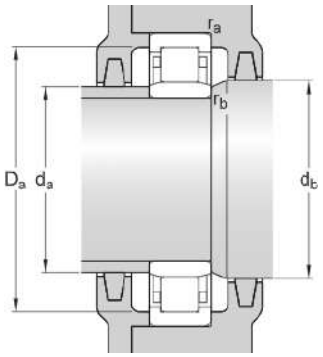
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 39.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 46 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.3 kg

Associated products

Angle ring	HJ 207 EC

NU 208 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

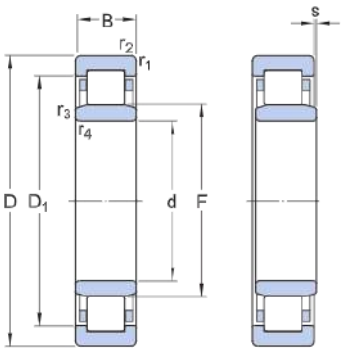
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

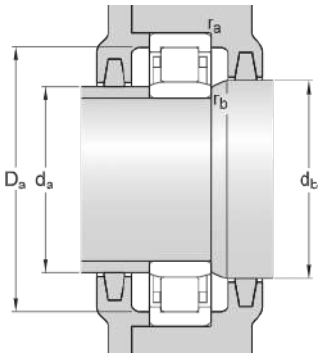
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 51 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.38 kg

Associated products

Angle ring	HJ 208 EC

NU 208 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

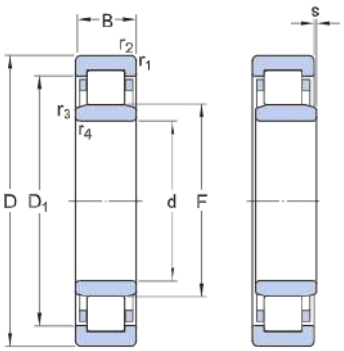
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

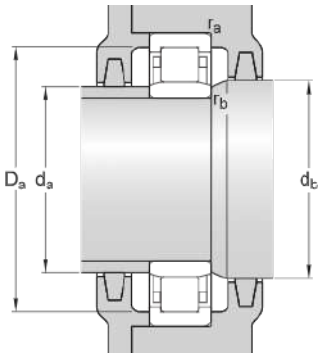
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 51 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.43 kg

Associated products

Angle ring	HJ 208 EC

NU 208 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

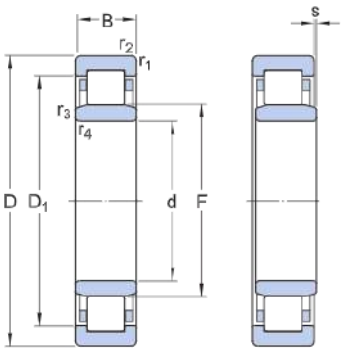
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	16 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

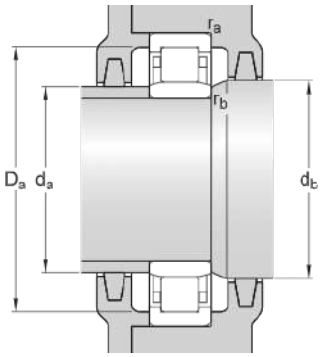
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
D_1	≈ 67.9 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 51 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.43 kg

Associated products

Angle ring	HJ 208 EC

NU 208 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

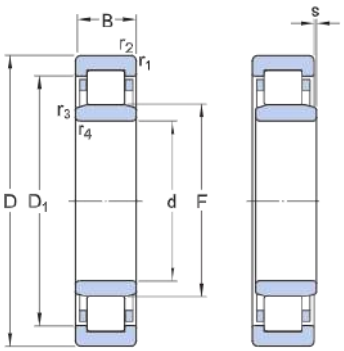
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

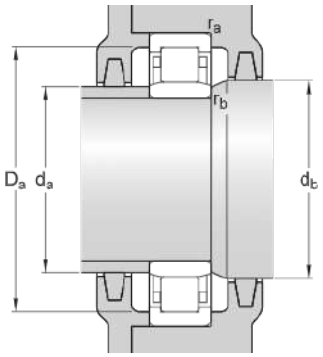
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 51 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.37 kg

Associated products

Angle ring	HJ 208 EC

NU 208 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

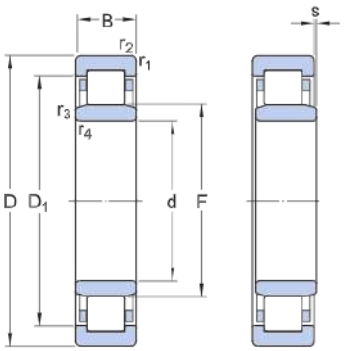
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

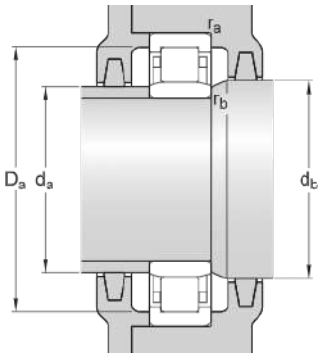
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 51 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.37 kg

Associated products

Angle ring	HJ 208 EC

NU 209 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

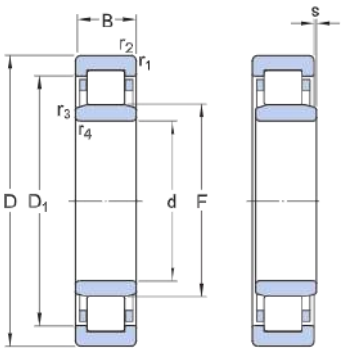
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

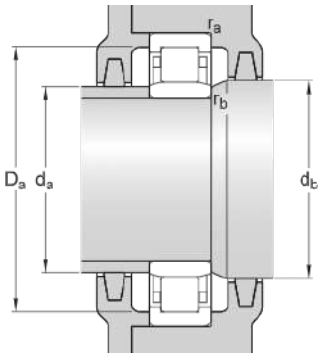
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.43 kg

Associated products

Angle ring	HJ 209 EC

NU 209 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

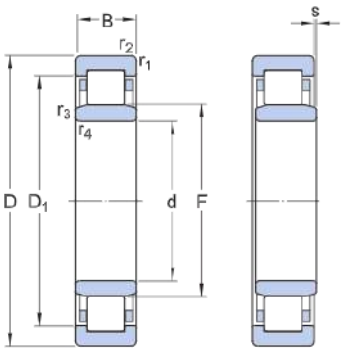
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

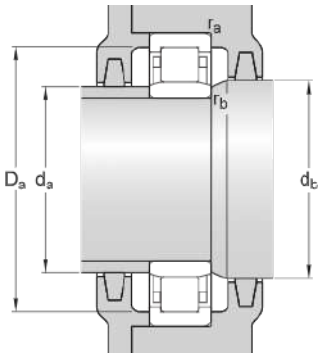
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.5 kg

Associated products

Angle ring	HJ 209 EC

NU 209 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

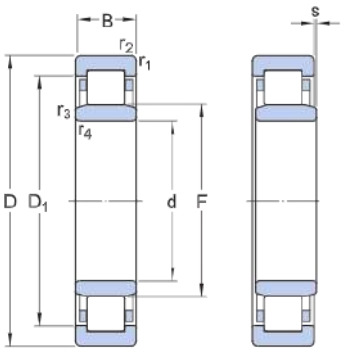
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	15 000 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

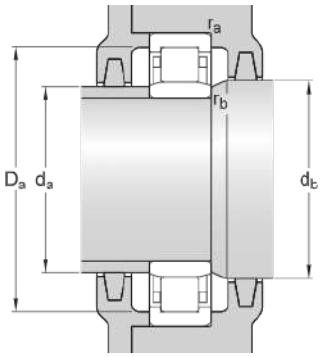
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
D_1	≈ 72.95 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.48 kg

Associated products

Angle ring	HJ 209 EC

NU 209 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

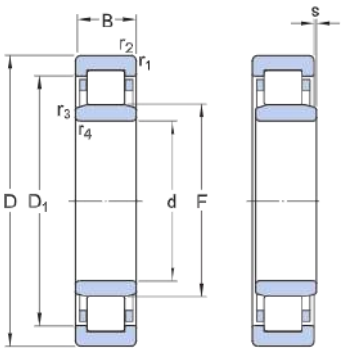
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

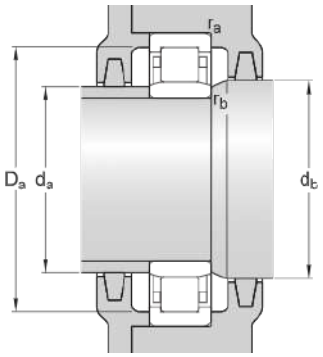
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.42 kg

Associated products

Angle ring	HJ 209 EC

NU 209 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

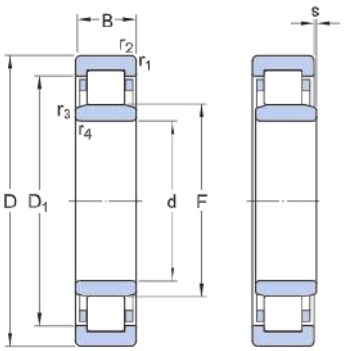
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

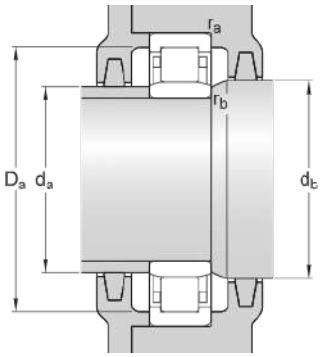
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.44 kg

Associated products

Angle ring	HJ 209 EC

NU 210 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

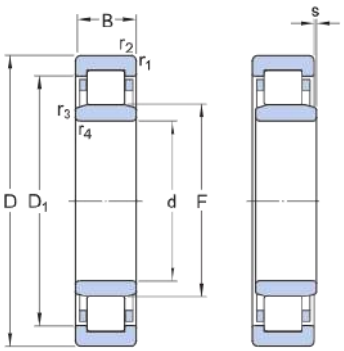
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

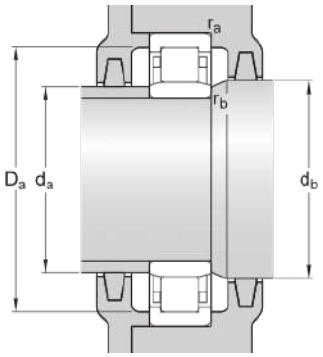
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
D_1	≈ 77.4 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.8 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.49 kg

Associated products

Angle ring	HJ 210 EC

NU 210 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

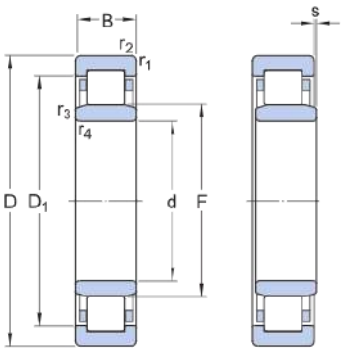
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

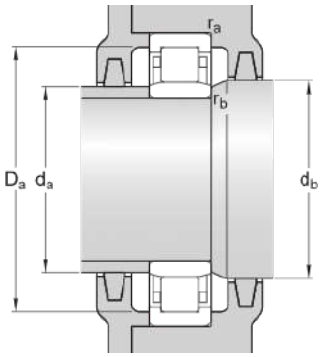
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
D_1	≈ 77.4 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.8 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.55 kg

Associated products

Angle ring	HJ 210 EC

NU 210 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

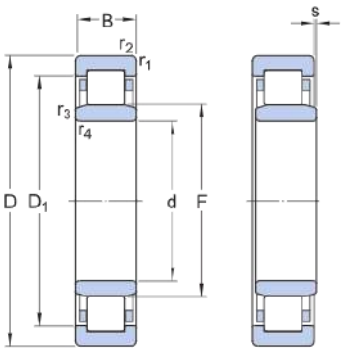
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

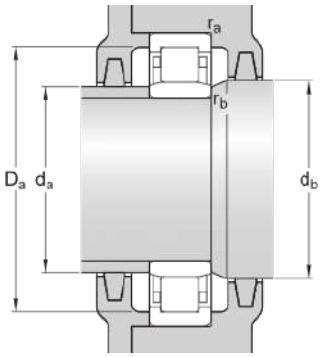
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
D_1	≈ 77.95 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.8 kN

Reference speed		8 500 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.55 kg

Associated products

Angle ring	HJ 210 EC

NU 210 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

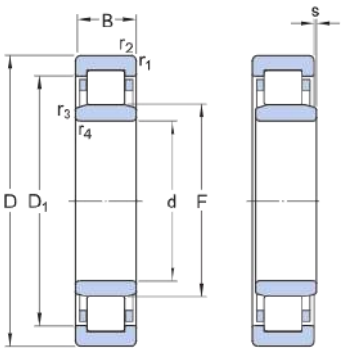
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

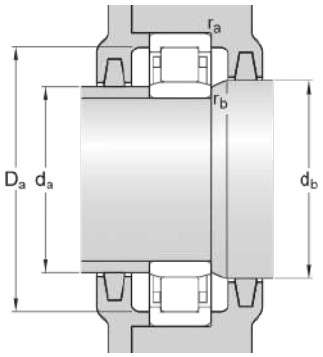
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
D_1	≈ 77.4 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.8 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.47 kg

Associated products

Angle ring	HJ 210 EC

NU 210 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

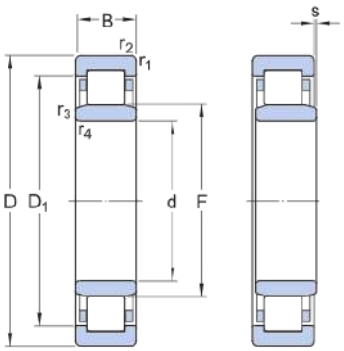
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

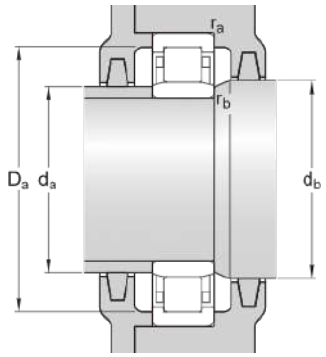
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
D_1	≈ 77.4 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.8 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.47 kg

Associated products

Angle ring	HJ 210 EC

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NU 211 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

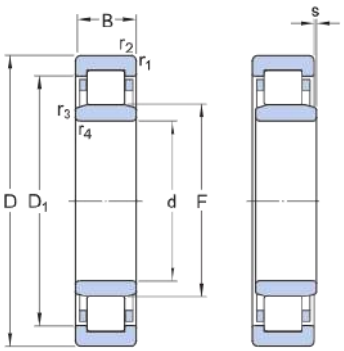
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

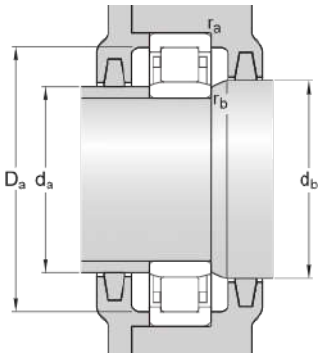
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
D_1	≈ 85.68 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 62 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 68 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN
Fatigue load limit	P_u	12.2 kN

Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.69 kg

Associated products

Angle ring	HJ 211 EC

NU 211 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

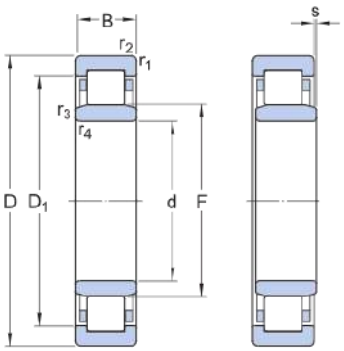
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

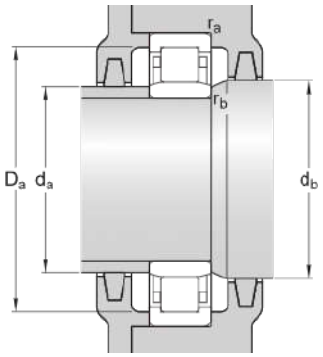
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
D_1	≈ 85.68 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 62 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 68 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN
Fatigue load limit	P_u	12.2 kN

Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.77 kg

Associated products

Angle ring	HJ 211 EC

NU 211 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

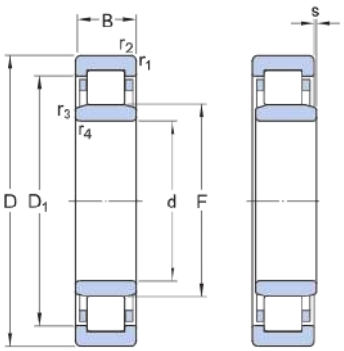
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

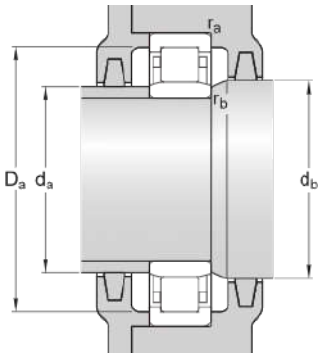
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
D_1	≈ 86.25 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 62 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 68 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN
Fatigue load limit	P_u	12.2 kN

Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.72 kg

Associated products

Angle ring	HJ 211 EC

NU 211 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

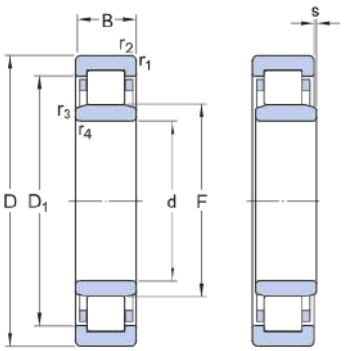
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

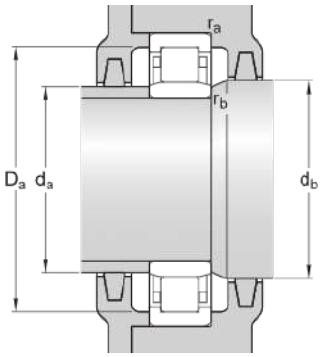
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
D_1	≈ 85.68 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 62 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 68 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN
Fatigue load limit	P_u	12.2 kN

Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.66 kg

Associated products

Angle ring	HJ 211 EC

NU 211 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

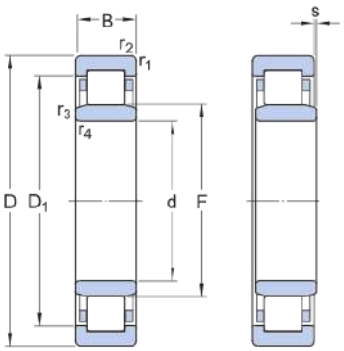
Basic dynamic load rating	96.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

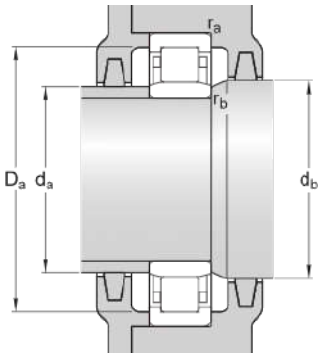
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	21 mm	Width
D_1	≈ 85.68 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 62 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 68 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	96.5 kN
Basic static load rating	C_0	95 kN
Fatigue load limit	P_u	12.2 kN

Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.66 kg

Associated products

Angle ring	HJ 211 EC

NU 303 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	47 mm
Width	14 mm

Performance

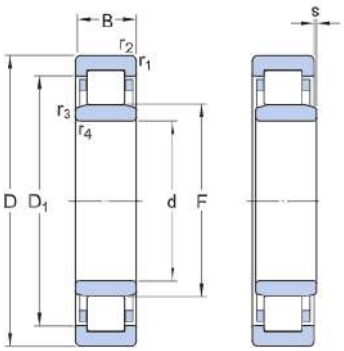
Basic dynamic load rating	28.5 kN
Basic static load rating	20.4 kN
Limiting speed	20 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

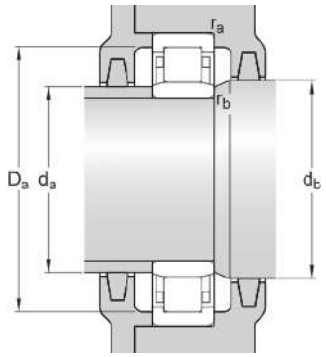
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
D_1	≈ 36.75 mm	Shoulder diameter of outer ring
F	24.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 21.1 mm	Diameter of spacer sleeve
d_a	max. 23.1 mm	Diameter of spacer sleeve
d_b	min. 26 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	20.4 kN
Fatigue load limit	P_u	2.55 kN

Reference speed		17 000 r/min
Limiting speed		20 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.12 kg

NU 304 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width	15 mm

Performance

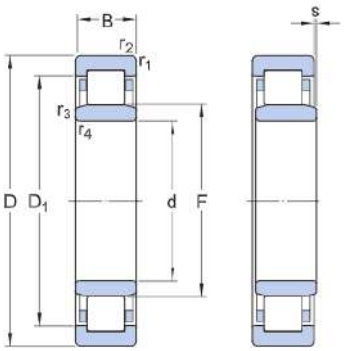
Basic dynamic load rating	35.5 kN
Basic static load rating	26 kN
Limiting speed	18 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

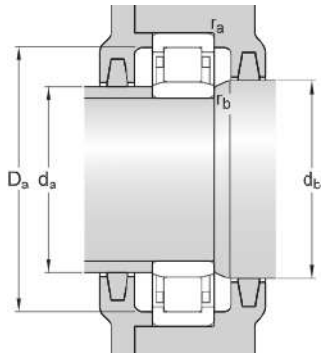
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
D_1	≈ 41.85 mm	Shoulder diameter of outer ring
F	27.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 0.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 24.1 mm	Diameter of spacer sleeve
d_a	max. 26.2 mm	Diameter of spacer sleeve
d_b	min. 29 mm	Diameter of shaft abutment
D_a	max. 45.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	35.5 kN
Basic static load rating	C_0	26 kN
Fatigue load limit	P_u	3.25 kN

Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.14 kg

Associated products

Angle ring	HJ 304 EC

NU 305 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

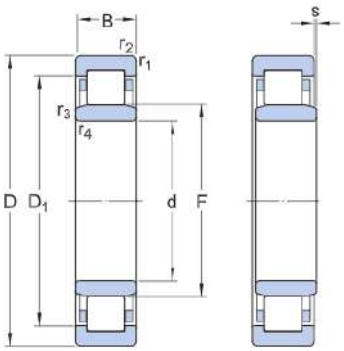
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

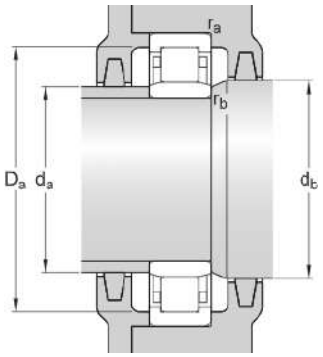
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
D_1	≈ 50.25 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.25 kg

Associated products

Angle ring	HJ 305 EC

NU 305 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

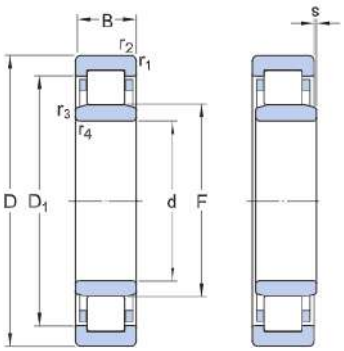
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	22 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

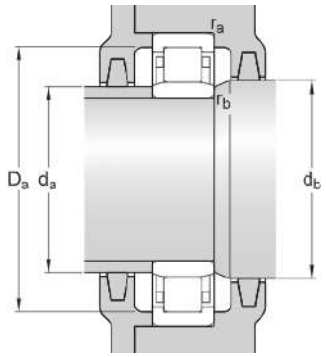
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
D_1	≈ 50.65 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		12 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.27 kg

Associated products

Angle ring	HJ 305 EC

NU 305 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

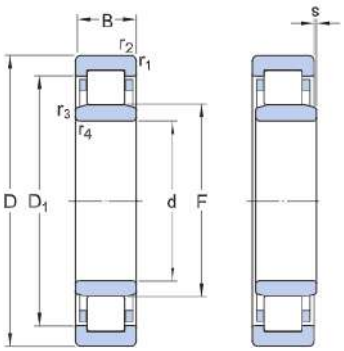
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

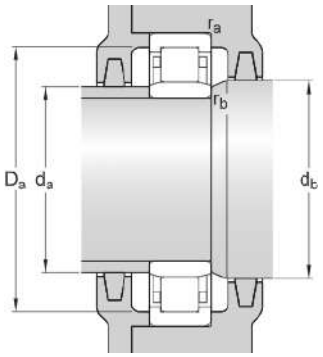
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
D_1	≈ 50.25 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.23 kg

Associated products

Angle ring	HJ 305 EC

NU 306 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

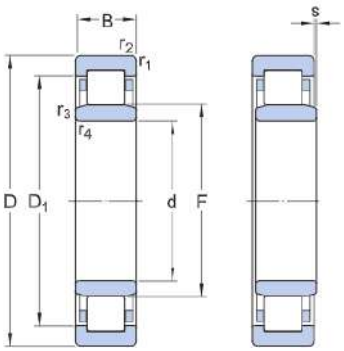
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

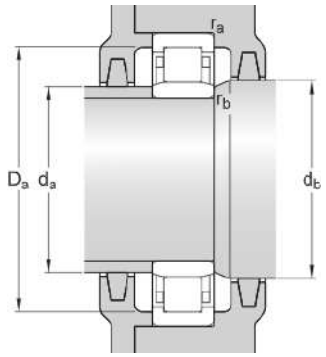
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.36 kg

Associated products

Angle ring	HJ 306 EC

NU 306 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

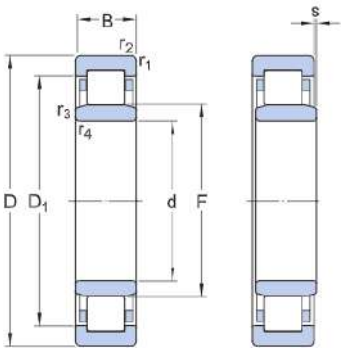
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

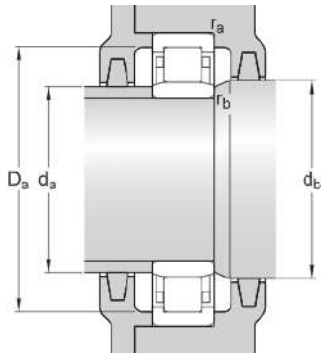
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.41 kg

Associated products

Angle ring	HJ 306 EC

NU 306 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

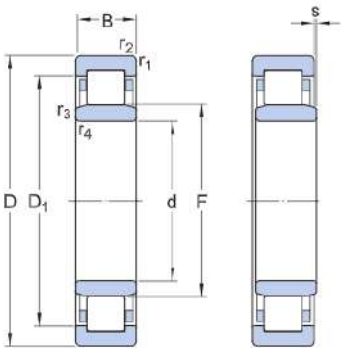
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	19 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

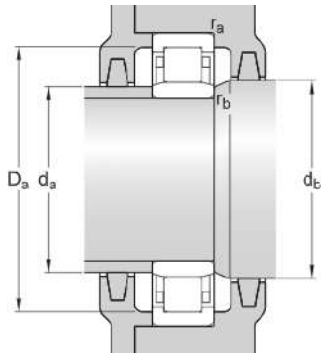
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
D_1	≈ 58.85 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN

Reference speed		11 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.4 kg

Associated products

Angle ring	HJ 306 EC

NU 306 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

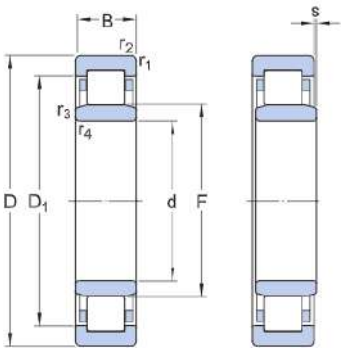
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

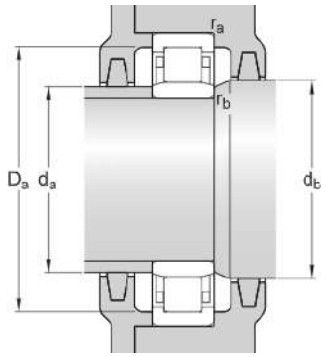
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.36 kg

Associated products

Angle ring	HJ 306 EC

NU 307 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

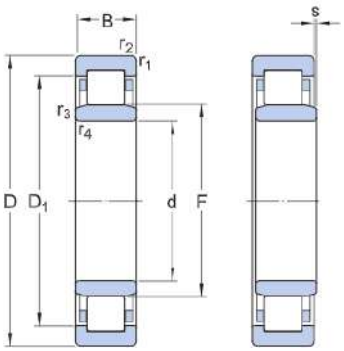
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

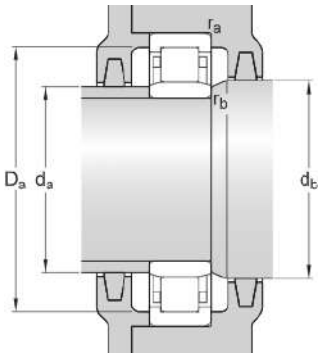
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 42 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 48 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.48 kg

Associated products

Angle ring	HJ 307 EC

NU 307 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

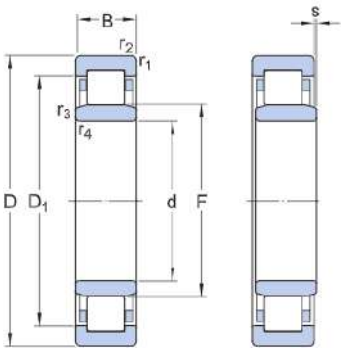
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

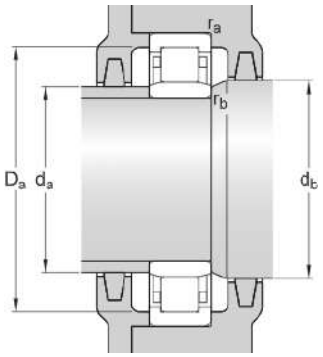
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 42 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 48 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.55 kg

Associated products

Angle ring	HJ 307 EC

NU 307 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

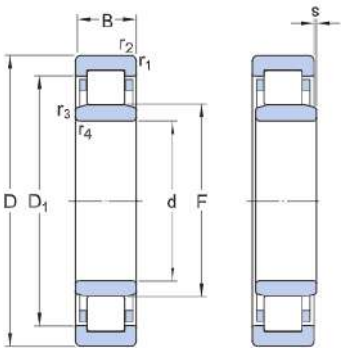
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	17 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

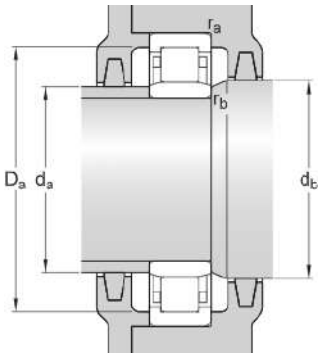
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
D_1	≈ 66.3 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 42 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 48 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		17 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.54 kg

Associated products

Angle ring	HJ 307 EC

NU 307 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

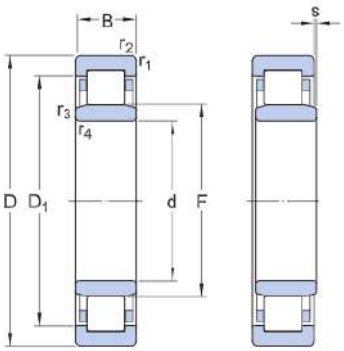
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

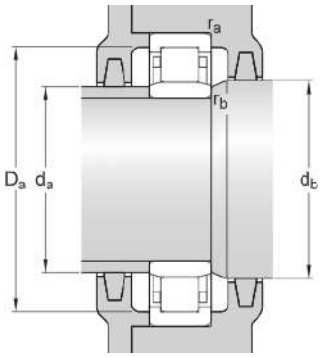
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 42 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 48 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.47 kg

Associated products

Angle ring	HJ 307 EC

NU 307 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

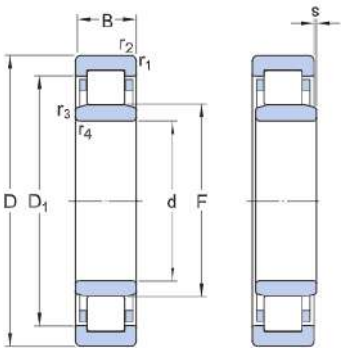
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

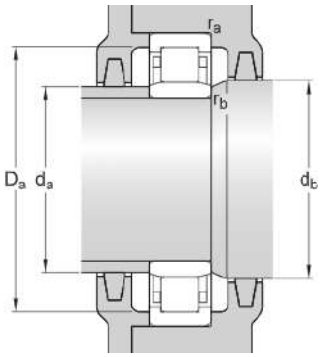
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 42 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 48 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.48 kg

Associated products

Angle ring	HJ 307 EC

NU 308 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

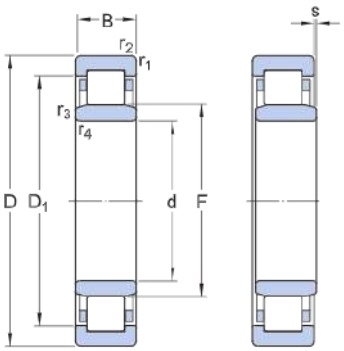
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

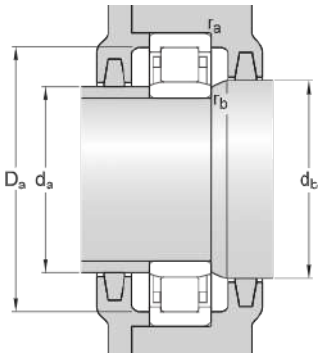
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.67 kg

Associated products

Angle ring	HJ 308 EC

NU 308 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

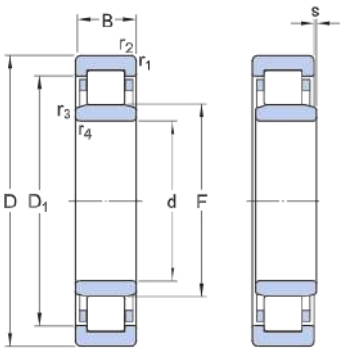
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

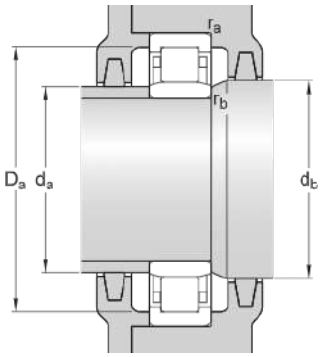
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.77 kg

Associated products

Angle ring	HJ 308 EC

NU 308 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

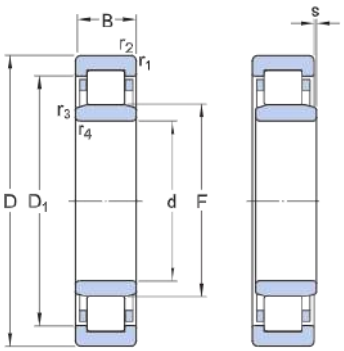
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	15 000 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

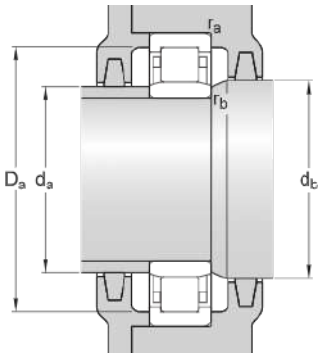
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 75.55 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.73 kg

Associated products

Angle ring	HJ 308 EC

NU 308 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

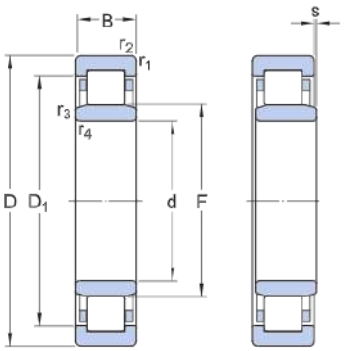
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

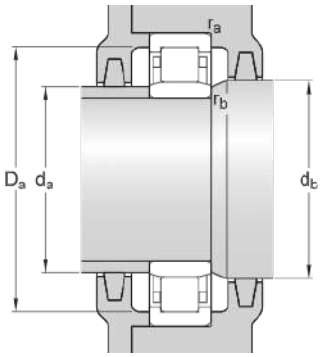
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.65 kg

Associated products

Angle ring	HJ 308 EC

NU 308 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

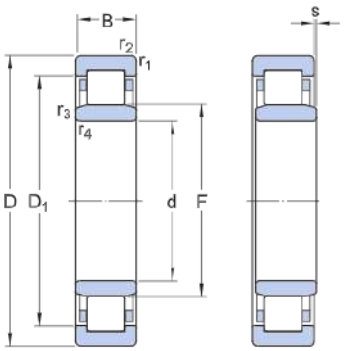
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

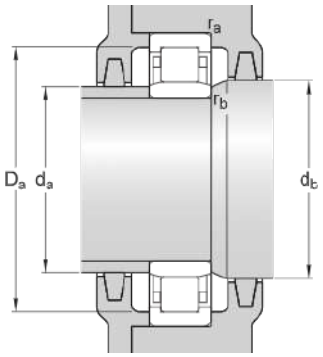
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.65 kg

Associated products

Angle ring	HJ 308 EC

NU 309 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

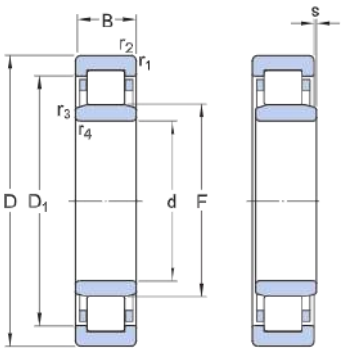
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

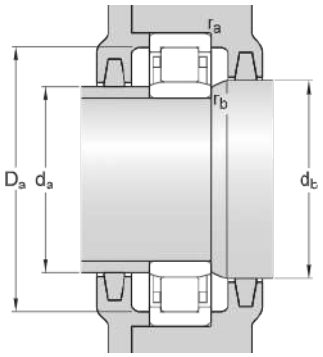
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.89 kg

Associated products

Angle ring	HJ 309 EC

NU 309 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

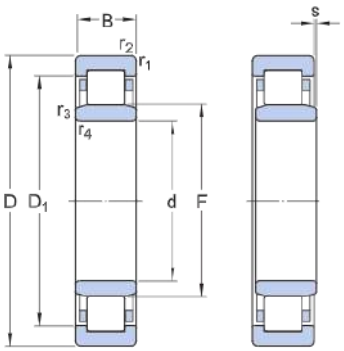
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

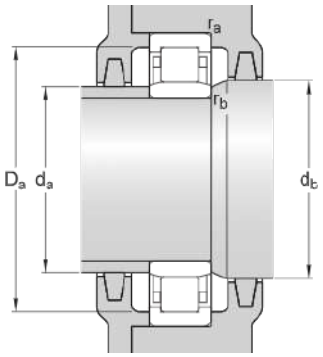
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1 kg

Associated products

Angle ring	HJ 309 EC

NU 309 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

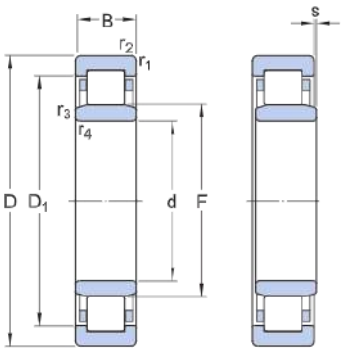
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	13 000 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

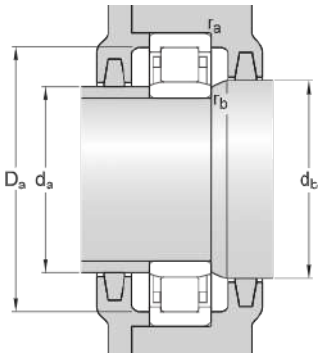
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
D_1	≈ 83.75 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.99 kg

Associated products

Angle ring	HJ 309 EC

NU 309 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

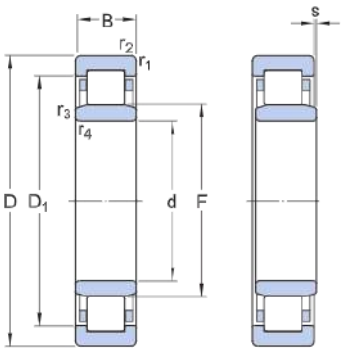
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

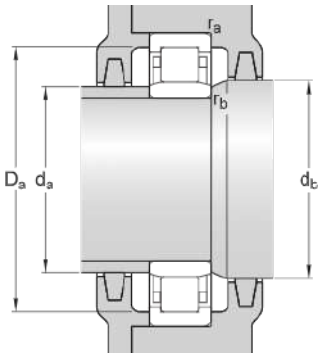
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.9 kg

Associated products

Angle ring	HJ 309 EC

NU 309 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

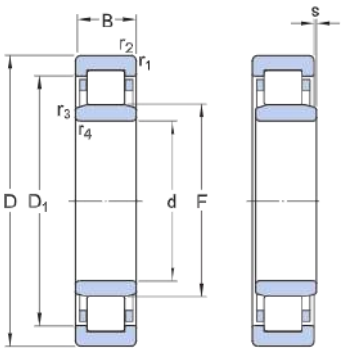
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

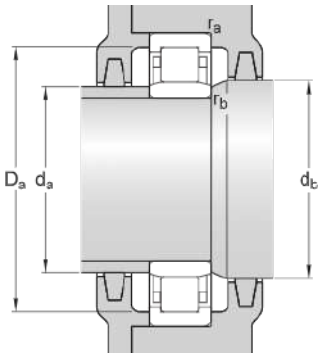
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.9 kg

Associated products

Angle ring	HJ 309 EC

NU 309 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

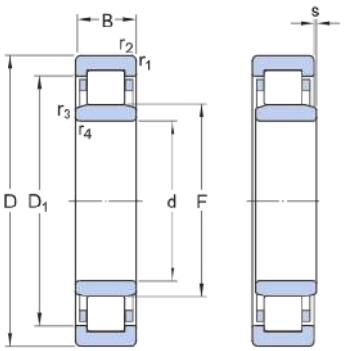
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

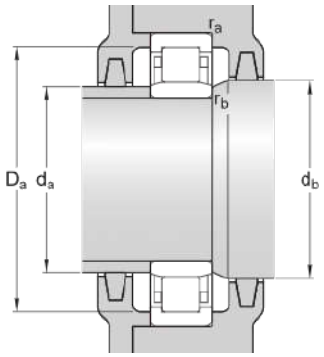
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.9 kg

Associated products

Angle ring	HJ 309 EC

NU 310 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

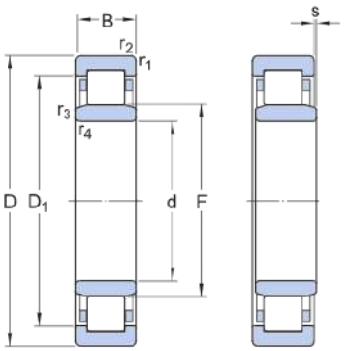
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

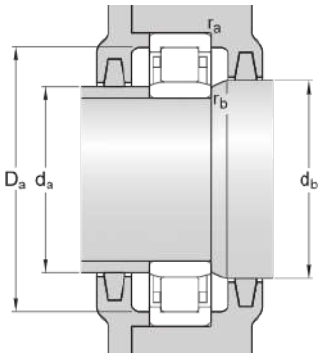
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.18 kg

Associated products

Angle ring	HJ 310 EC

NU 310 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

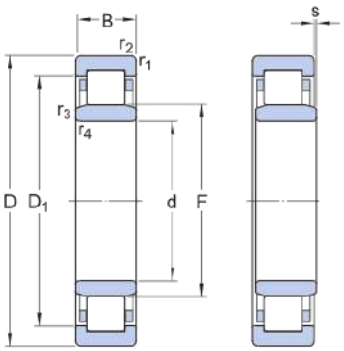
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

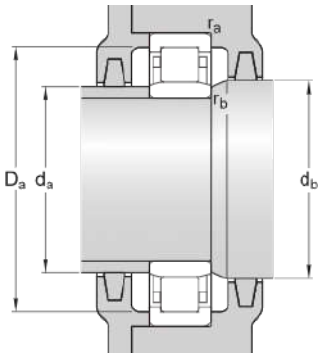
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.31 kg

Associated products

Angle ring	HJ 310 EC

NU 310 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

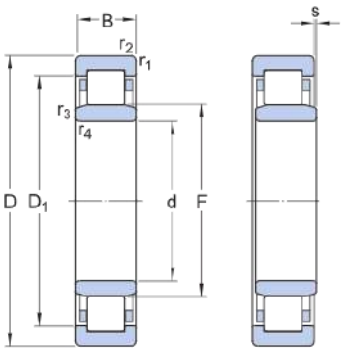
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

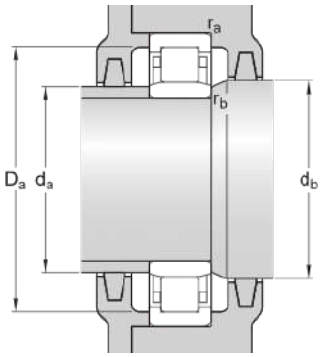
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
D_1	≈ 92.05 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN

Reference speed		6 700 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.27 kg

Associated products

Angle ring	HJ 310 EC

NU 310 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

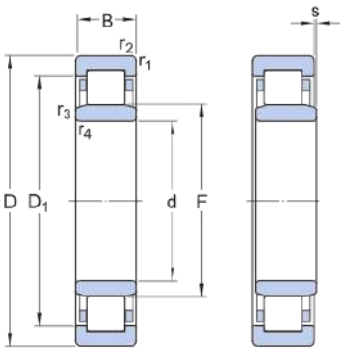
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

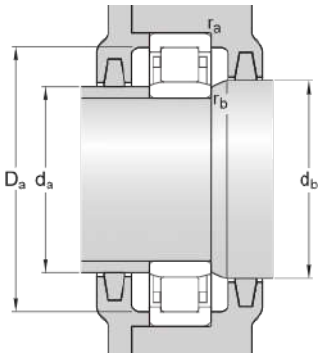
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.12 kg

Associated products

Angle ring	HJ 310 EC

NU 310 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

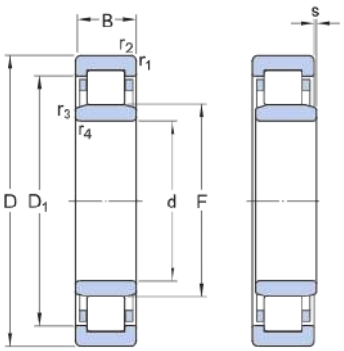
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

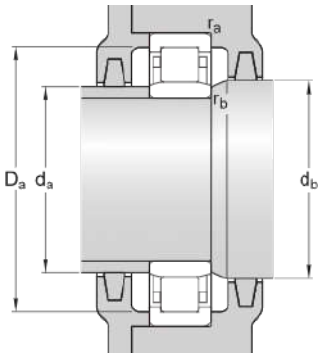
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.12 kg

Associated products

Angle ring	HJ 310 EC

NU 1005

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	47 mm
Width	12 mm

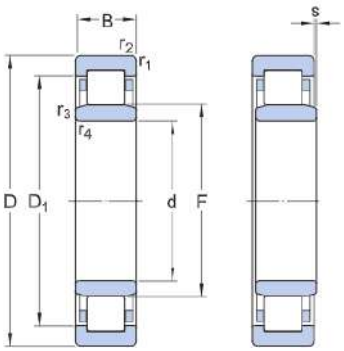
Performance

Basic dynamic load rating	14.2 kN
Basic static load rating	13.2 kN
Limiting speed	18 000 r/min
Reference speed	18 000 r/min

Properties

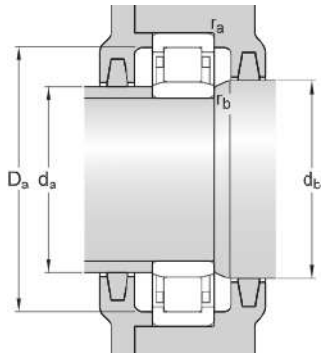
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
D_1	≈ 38.8 mm	Shoulder diameter of outer ring
F	30.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 27.1 mm	Diameter of spacer sleeve
d_a	max. 29.5 mm	Diameter of spacer sleeve
d_b	min. 32 mm	Diameter of shaft abutment
D_a	max. 43.1 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet
r_b	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	14.2 kN
Basic static load rating	C_0	13.2 kN
Fatigue load limit	P_u	1.4 kN
Reference speed		18 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2

Calculation factor	Y	0.6

Mass

Mass	0.082 kg

NU 1006

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	55 mm
Width	13 mm

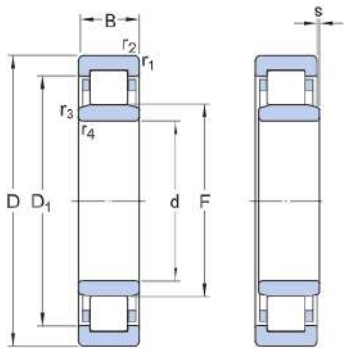
Performance

Basic dynamic load rating	17.9 kN
Basic static load rating	17.3 kN
Limiting speed	15 000 r/min
Reference speed	15 000 r/min

Properties

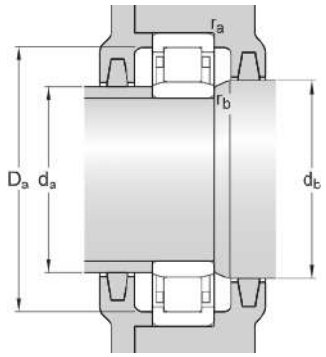
Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	30 mm	Bore diameter
D	55 mm	Outside diameter
B	13 mm	Width
D_1	≈ 45.56 mm	Shoulder diameter of outer ring
F	36.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.6 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 32.9 mm	Diameter of spacer sleeve
d_a	max. 35.6 mm	Diameter of spacer sleeve
d_b	min. 38 mm	Diameter of shaft abutment
D_a	max. 49.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	17.9 kN
Basic static load rating	C_0	17.3 kN
Fatigue load limit	P_u	1.86 kN
Reference speed		15 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2

Calculation factor	Y	0.6

Mass

Mass	0.11 kg

NU 1007 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	62 mm
Width	14 mm

Performance

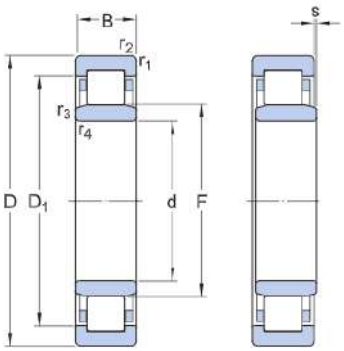
Basic dynamic load rating	41.5 kN
Basic static load rating	38 kN
Limiting speed	13 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

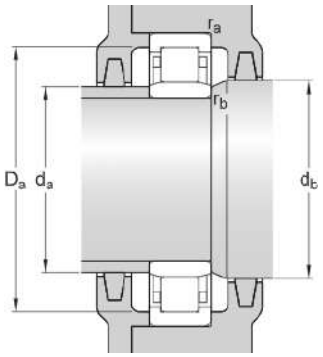
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
B	14 mm	Width
D_1	≈ 53.95 mm	Shoulder diameter of outer ring
F	42 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 38 mm	Diameter of spacer sleeve
d_a	max. 41 mm	Diameter of spacer sleeve
d_b	min. 44 mm	Diameter of shaft abutment
D_a	max. 56.5 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	41.5 kN
Basic static load rating	C_0	38 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		13 000 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.16 kg

NU 1007 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	62 mm
Width	14 mm

Performance

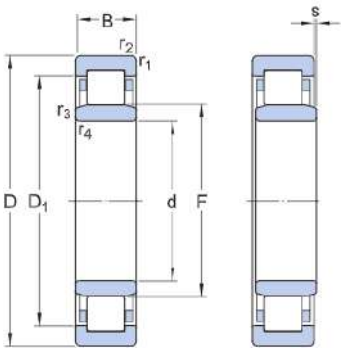
Basic dynamic load rating	41.5 kN
Basic static load rating	38 kN
Limiting speed	13 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

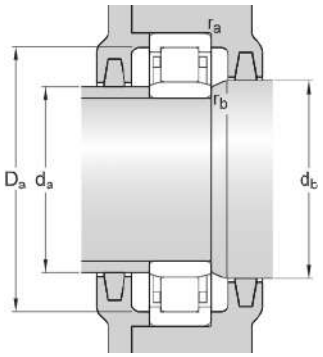
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
B	14 mm	Width
D_1	≈ 53.95 mm	Shoulder diameter of outer ring
F	42 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 38 mm	Diameter of spacer sleeve
d_a	max. 41 mm	Diameter of spacer sleeve
d_b	min. 44 mm	Diameter of shaft abutment
D_a	max. 56.5 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	41.5 kN
Basic static load rating	C_0	38 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		13 000 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.16 kg

NU 1008 ML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	68 mm
Width	15 mm

Performance

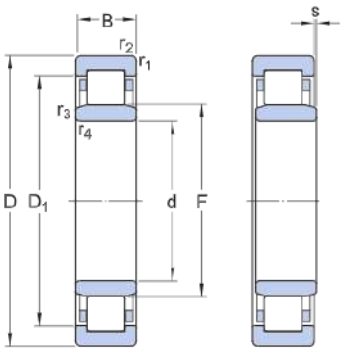
Basic dynamic load rating	28.5 kN
Basic static load rating	26 kN
Limiting speed	18 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

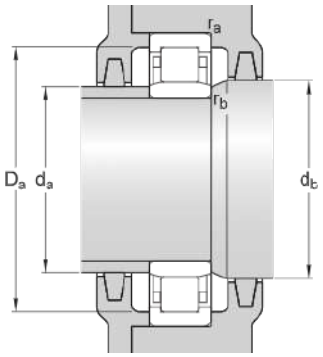
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	68 mm	Outside diameter
B	15 mm	Width
D_1	≈ 57.6 mm	Shoulder diameter of outer ring
F	47 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_a	max. 46 mm	Diameter of spacer sleeve
d_b	min. 49 mm	Diameter of shaft abutment
D_a	max. 62.3 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	26 kN
Fatigue load limit	P_u	3 kN

Reference speed		12 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.23 kg

NU 1009 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	75 mm
Width	16 mm

Performance

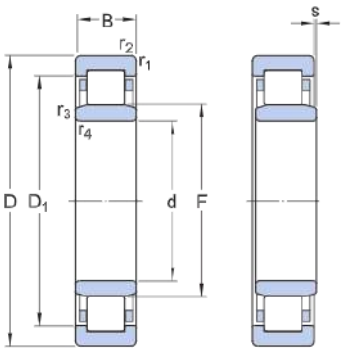
Basic dynamic load rating	52 kN
Basic static load rating	52 kN
Limiting speed	11 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

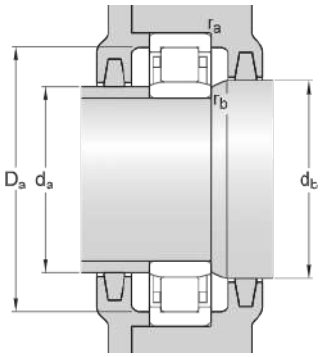
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	16 mm	Width
D_1	≈ 65.3 mm	Shoulder diameter of outer ring
F	52.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 0.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48.4 mm	Diameter of spacer sleeve
d_a	max. 51 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 69.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	52 kN
Basic static load rating	C_0	52 kN
Fatigue load limit	P_u	6.3 kN

Reference speed		11 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.25 kg

NU 1009 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	75 mm
Width	16 mm

Performance

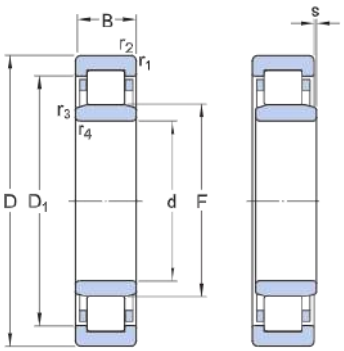
Basic dynamic load rating	52 kN
Basic static load rating	52 kN
Limiting speed	11 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

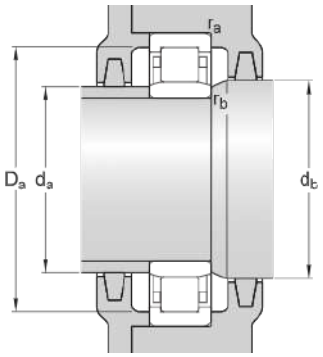
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	16 mm	Width
D_1	≈ 65.3 mm	Shoulder diameter of outer ring
F	52.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 0.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48.4 mm	Diameter of spacer sleeve
d_a	max. 51 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 69.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	52 kN
Basic static load rating	C_0	52 kN
Fatigue load limit	P_u	6.3 kN

Reference speed		11 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.25 kg

NU 1010 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	80 mm
Width	16 mm

Performance

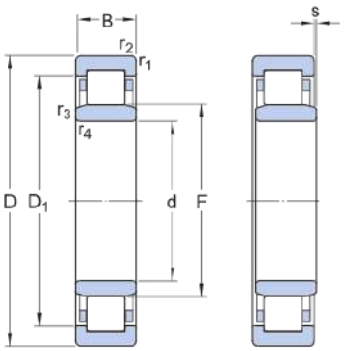
Basic dynamic load rating	53 kN
Basic static load rating	56 kN
Reference speed	9 500 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

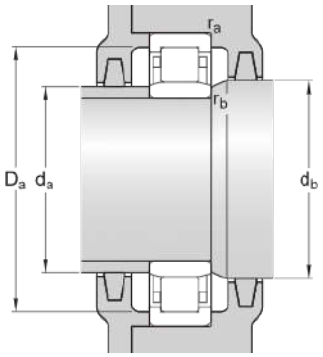
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	16 mm	Width
D_1	≈ 70.5 mm	Shoulder diameter of outer ring
F	57.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 59 mm	Diameter of shaft abutment
D_a	max. 74.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	53 kN
Basic static load rating	C_0	56 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.27 kg

NU 1010 ML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	80 mm
Width	16 mm

Performance

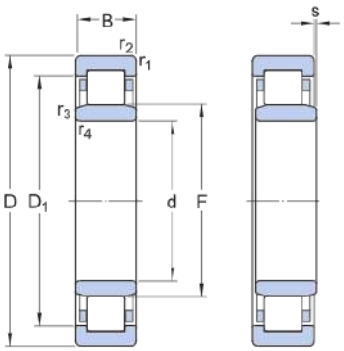
Basic dynamic load rating	36.5 kN
Basic static load rating	36 kN
Reference speed	10 000 r/min
Limiting speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

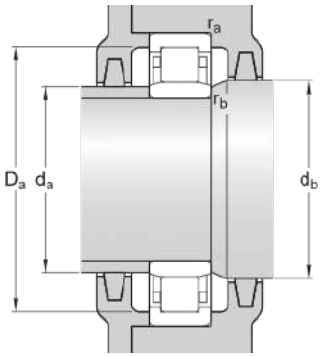
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	16 mm	Width
D_1	≈ 68.85 mm	Shoulder diameter of outer ring
F	57.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 59 mm	Diameter of shaft abutment
D_a	max. 74.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	36.5 kN
Basic static load rating	C_0	36 kN
Fatigue load limit	P_u	4.25 kN

Reference speed		10 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.31 kg

NU 1011 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	90 mm
Width	18 mm

Performance

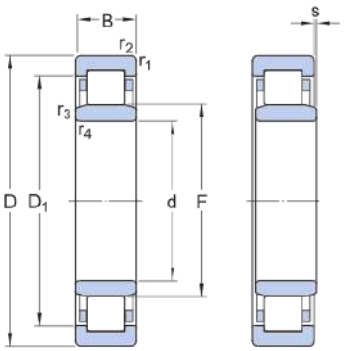
Basic dynamic load rating	65.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

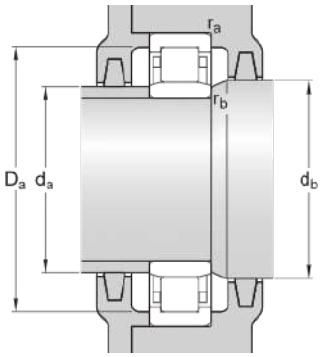
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	18 mm	Width
D_1	≈ 79.19 mm	Shoulder diameter of outer ring
F	64.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension
s	max. 0.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 59.7 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 83 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	65.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.3 kN

Reference speed		8 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.39 kg

NU 2203 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	16 mm

Performance

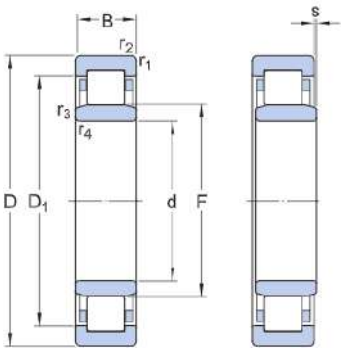
Basic dynamic load rating	27.5 kN
Basic static load rating	21.6 kN
Limiting speed	22 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

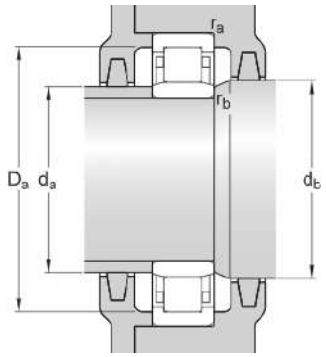
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	16 mm	Width
D_1	≈ 32.35 mm	Shoulder diameter of outer ring
F	22.1 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 19.9 mm	Diameter of spacer sleeve
d_a	max. 21.1 mm	Diameter of spacer sleeve
d_b	min. 24 mm	Diameter of shaft abutment
D_a	max. 36 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet
r_b	max. 0.3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	27.5 kN
Basic static load rating	C_0	21.6 kN
Fatigue load limit	P_u	2.65 kN

Reference speed		20 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.087 kg

NU 2204 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	18 mm

Performance

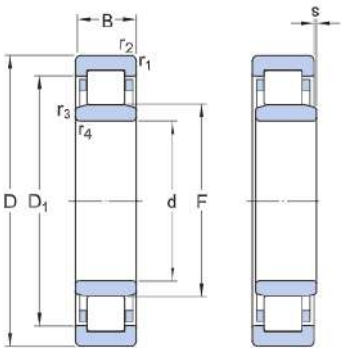
Basic dynamic load rating	34.5 kN
Basic static load rating	27.5 kN
Limiting speed	19 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

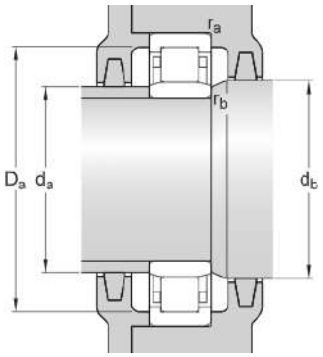
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	18 mm	Width
D_1	≈ 38.3 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 24 mm	Diameter of spacer sleeve
d_a	max. 25.4 mm	Diameter of spacer sleeve
d_b	min. 28 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	34.5 kN
Basic static load rating	C_0	27.5 kN
Fatigue load limit	P_u	3.45 kN

Reference speed		17 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.14 kg

NU 2205 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	18 mm

Performance

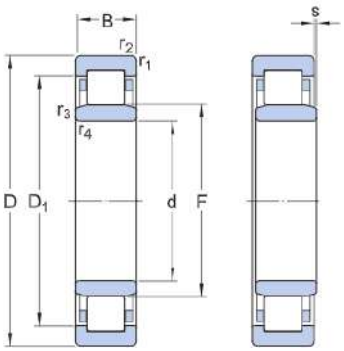
Basic dynamic load rating	39 kN
Basic static load rating	34 kN
Limiting speed	26 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

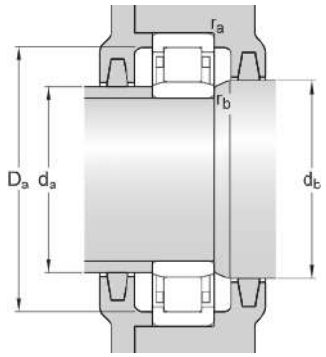
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
D_1	≈ 43.8 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 28.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 33 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	39 kN
Basic static load rating	C_0	34 kN
Fatigue load limit	P_u	4.25 kN

Reference speed		15 000 r/min
Limiting speed		26 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.19 kg

Associated products

Angle ring	HJ 2205 EC

NU 2205 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	18 mm

Performance

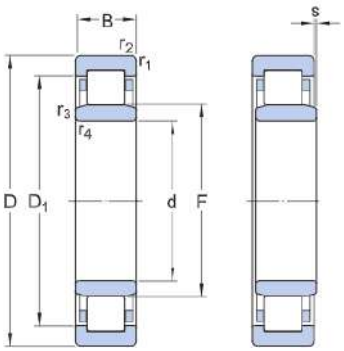
Basic dynamic load rating	39 kN
Basic static load rating	34 kN
Limiting speed	16 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

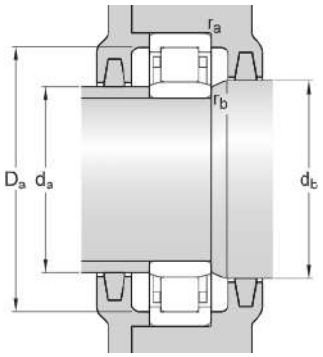
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
D_1	≈ 43.3 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 28.9 mm	Diameter of spacer sleeve
d_a	max. 30.4 mm	Diameter of spacer sleeve
d_b	min. 33 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	39 kN
Basic static load rating	C_0	34 kN
Fatigue load limit	P_u	4.25 kN

Reference speed		15 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.16 kg

Associated products

Angle ring	HJ 2205 EC

NU 2206 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	20 mm

Performance

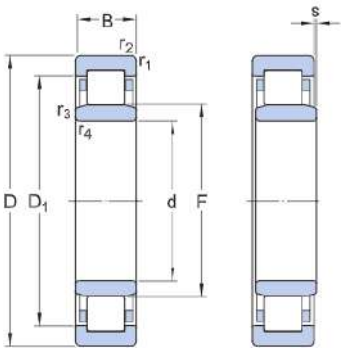
Basic dynamic load rating	55 kN
Basic static load rating	49 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

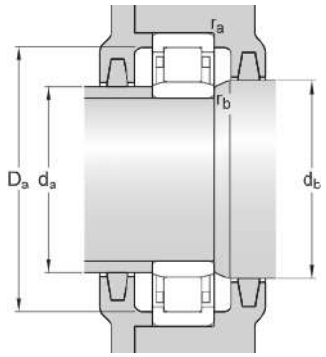
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
D_1	≈ 51.95 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 34.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 39 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	49 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.27 kg

NU 2206 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	20 mm

Performance

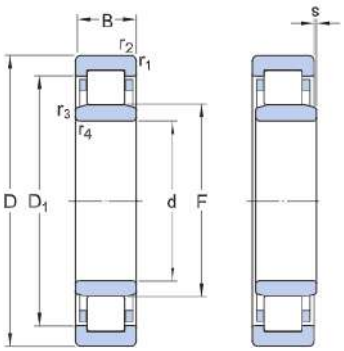
Basic dynamic load rating	55 kN
Basic static load rating	49 kN
Limiting speed	22 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

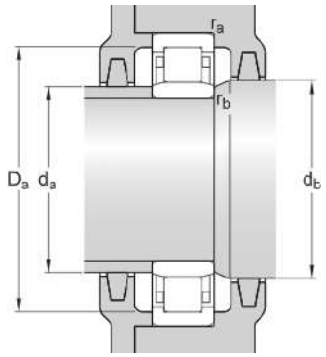
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
D_1	≈ 52.45 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 34.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 39 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	49 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		13 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.29 kg

NU 2206 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	20 mm

Performance

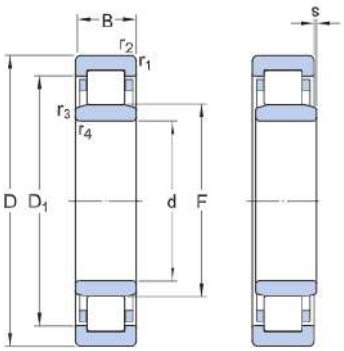
Basic dynamic load rating	55 kN
Basic static load rating	49 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

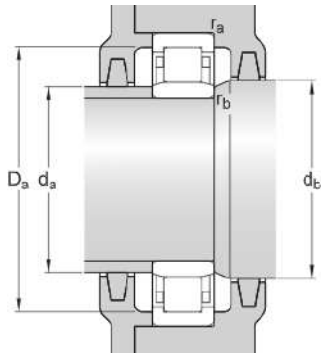
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
D_1	≈ 51.95 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 34.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 39 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	49 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.26 kg

NU 2206 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	20 mm

Performance

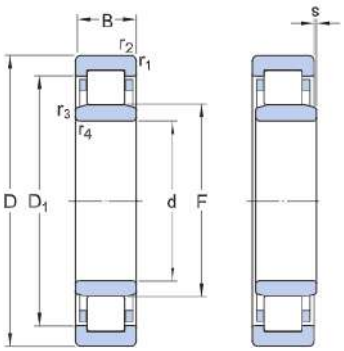
Basic dynamic load rating	55 kN
Basic static load rating	49 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

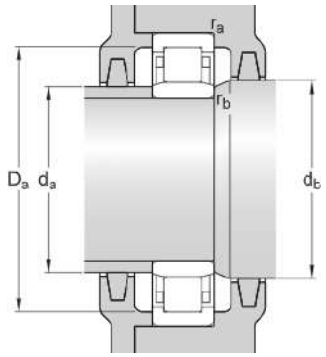
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
D_1	≈ 51.95 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 34.3 mm	Diameter of spacer sleeve
d_a	max. 36.1 mm	Diameter of spacer sleeve
d_b	min. 39 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	49 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.26 kg

NU 2207 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

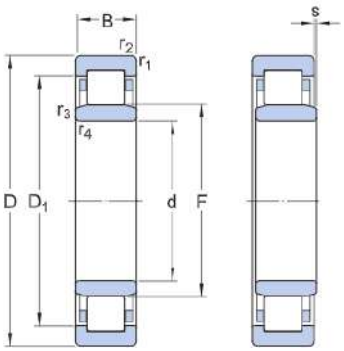
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

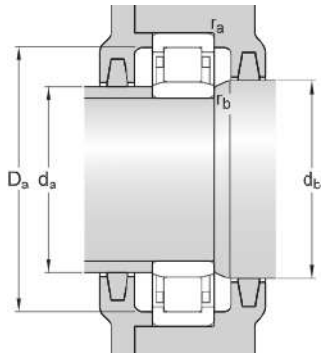
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
D_1	≈ 60.2 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 39.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 46 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.4 kg

NU 2207 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

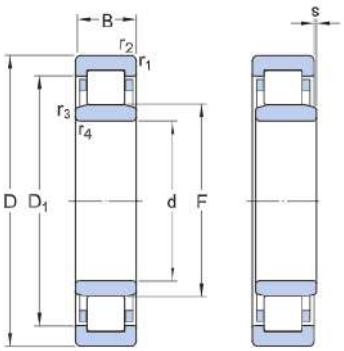
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	18 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

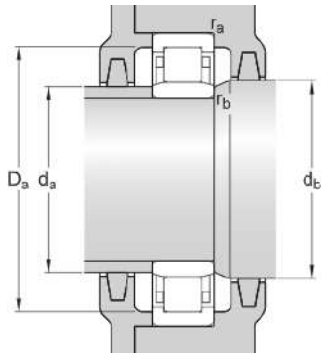
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
D_1	≈ 60.7 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 39.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 46 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		11 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.45 kg

NU 2207 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

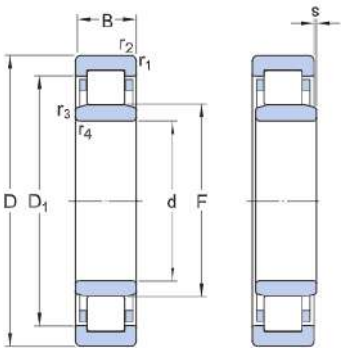
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

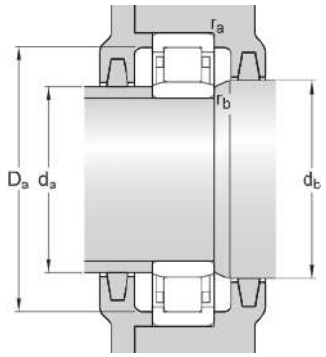
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
D_1	≈ 60.2 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 39.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 46 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.4 kg

NU 2207 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

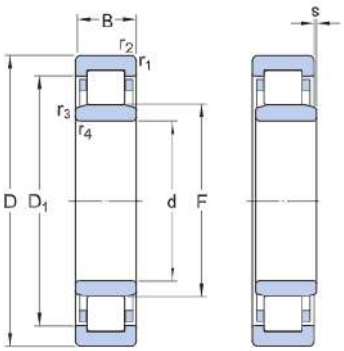
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

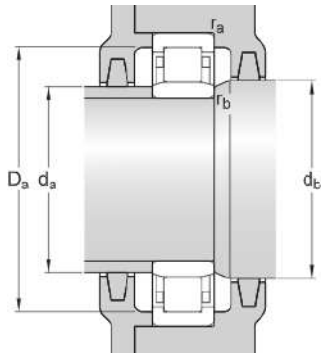
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
D_1	≈ 60.2 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 2.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 39.8 mm	Diameter of spacer sleeve
d_a	max. 42.2 mm	Diameter of spacer sleeve
d_b	min. 46 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.4 kg

NU 2208 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

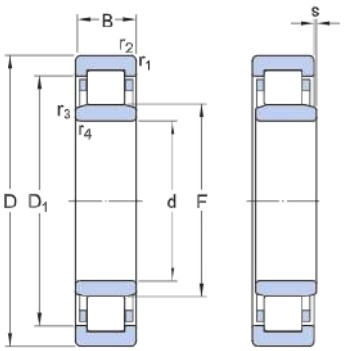
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

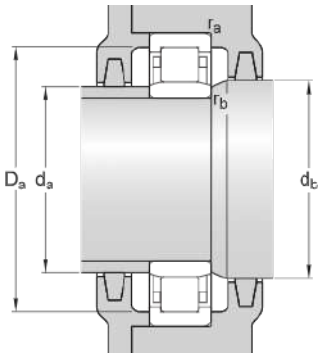
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
D_1	≈ 67.53 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 51 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.5 kg

Associated products

Angle ring	HJ 2208 EC

NU 2208 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

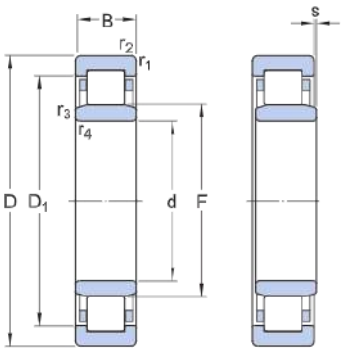
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	16 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

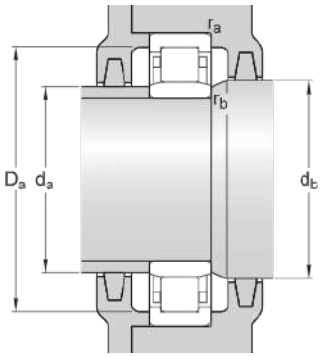
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
D_1	≈ 67.9 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 51 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		9 500 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.55 kg

Associated products

Angle ring	HJ 2208 EC

NU 2208 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

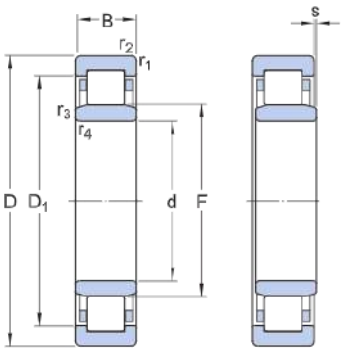
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

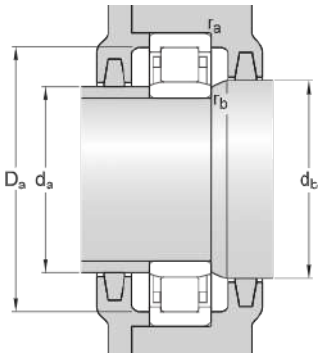
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
D_1	≈ 67.53 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 51 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.49 kg

Associated products

Angle ring	HJ 2208 EC

NU 2208 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

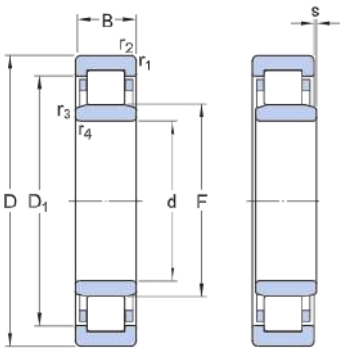
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

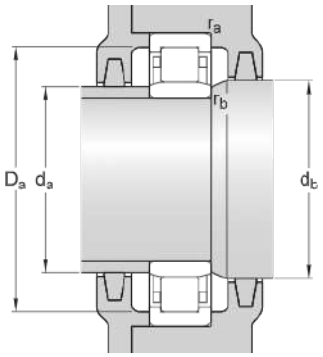
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
D_1	≈ 67.53 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_a	max. 48 mm	Diameter of spacer sleeve
d_b	min. 51 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.48 kg

Associated products

Angle ring	HJ 2208 EC

NU 2209 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm

Performance

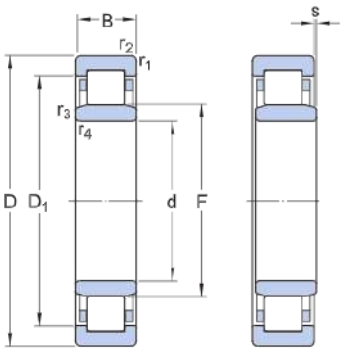
Basic dynamic load rating	85 kN
Basic static load rating	81.5 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

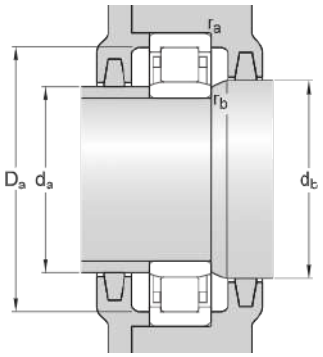
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	10.6 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.54 kg

NU 2209 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm

Performance

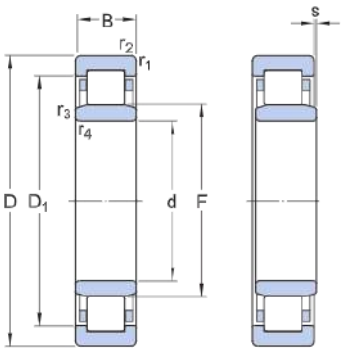
Basic dynamic load rating	85 kN
Basic static load rating	81.5 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

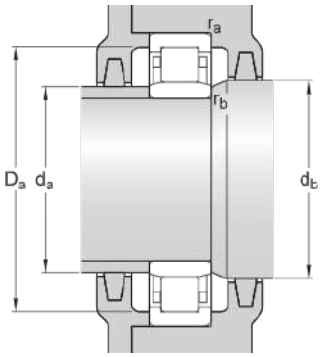
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	10.6 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.52 kg

NU 2209 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm

Performance

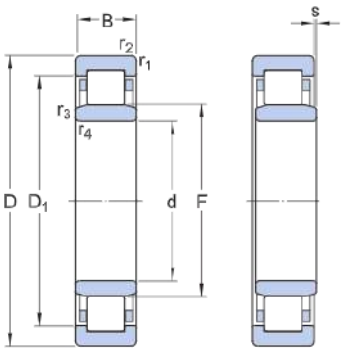
Basic dynamic load rating	85 kN
Basic static load rating	81.5 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

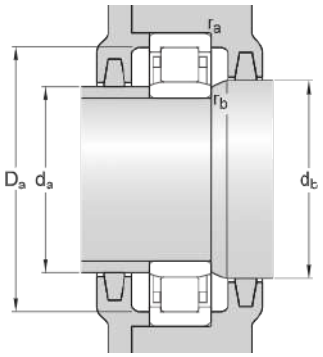
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_a	max. 53 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	10.6 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.52 kg

NU 2210 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

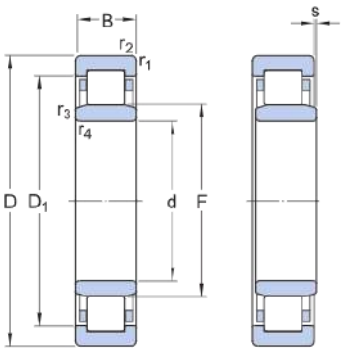
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

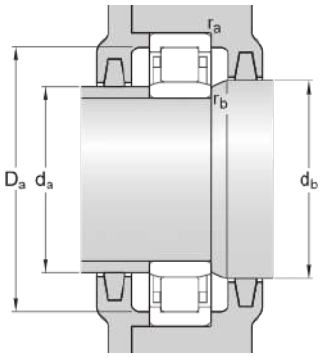
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	11.4 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.57 kg

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NU 2210 ECM

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

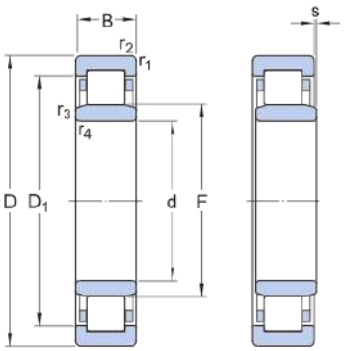
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

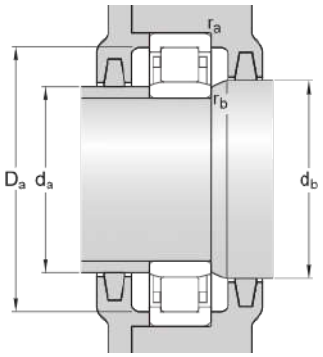
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	11.4 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.66 kg

NU 2210 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

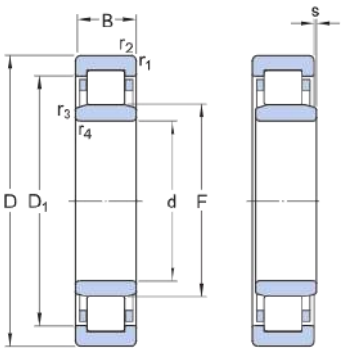
Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without

Lubricant	None
Relubrication feature	Without

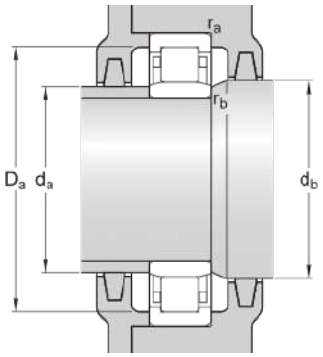
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	11.4 kN

Reference speed		8 500 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		0.66 kg

NU 2210 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

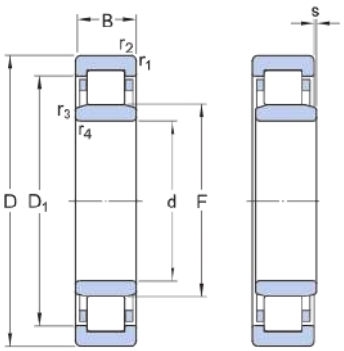
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

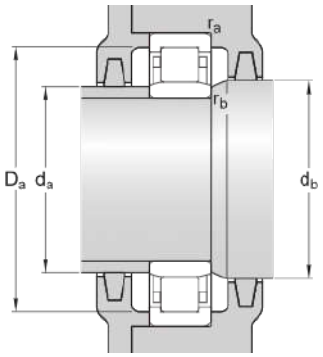
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	11.4 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.56 kg

NU 2210 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

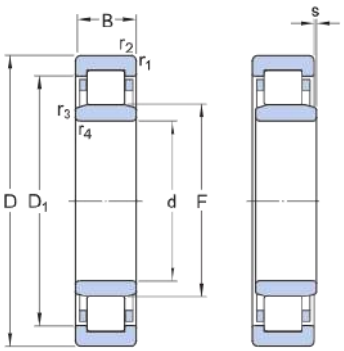
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

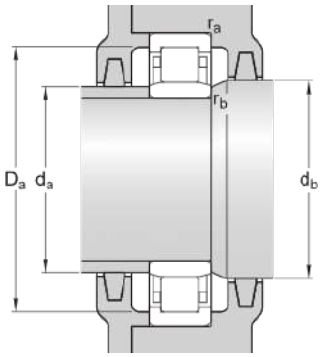
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_a	max. 57.5 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	11.4 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.56 kg

NU 2211 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	25 mm

Performance

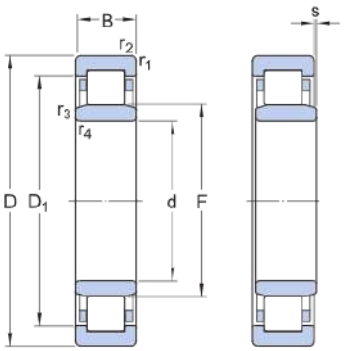
Basic dynamic load rating	114 kN
Basic static load rating	118 kN
Reference speed	7 500 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

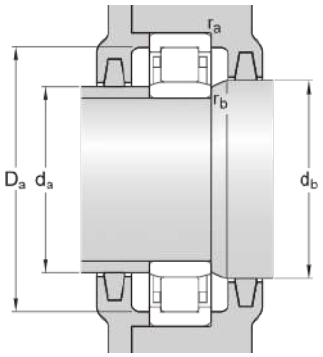
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
D_1	≈ 85.7 mm	Shoulder diameter of outer ring
F	66 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 1.5 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 62 mm	Diameter of spacer sleeve
d_a	max. 64 mm	Diameter of spacer sleeve
d_b	min. 68 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	114 kN
Basic static load rating	C_0	118 kN
Fatigue load limit	P_u	15.3 kN

Reference speed		7 500 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.79 kg

Associated products

Angle ring	HJ 2211 EC

NU 2304 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width	21 mm

Performance

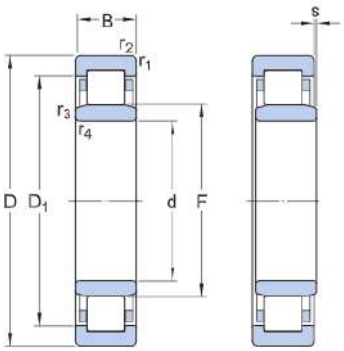
Basic dynamic load rating	47.5 kN
Basic static load rating	38 kN
Limiting speed	18 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

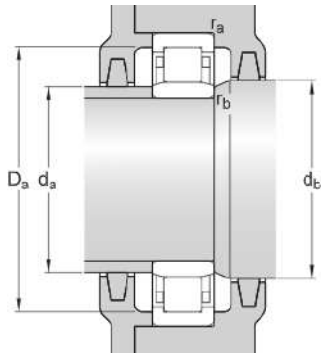
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	21 mm	Width
D_1	≈ 41.85 mm	Shoulder diameter of outer ring
F	27.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 24.1 mm	Diameter of spacer sleeve
d_a	max. 26.2 mm	Diameter of spacer sleeve
d_b	min. 29 mm	Diameter of shaft abutment
D_a	max. 45.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	47.5 kN
Basic static load rating	C_0	38 kN
Fatigue load limit	P_u	4.8 kN

Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.21 kg

NU 2305 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	24 mm

Performance

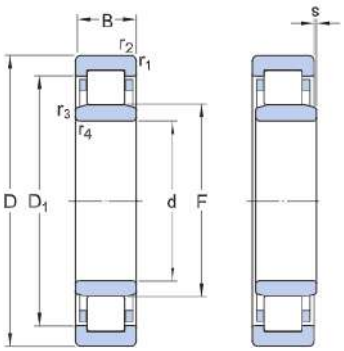
Basic dynamic load rating	64 kN
Basic static load rating	55 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

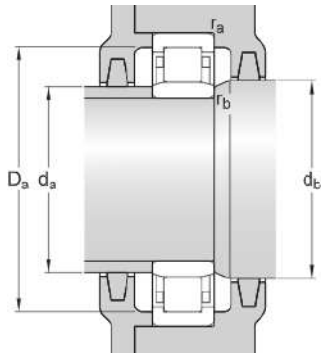
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
D_1	≈ 50.15 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	64 kN
Basic static load rating	C_0	55 kN
Fatigue load limit	P_u	6.95 kN

Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.35 kg

Associated products

Angle ring	HJ 2305 EC

NU 2305 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	24 mm

Performance

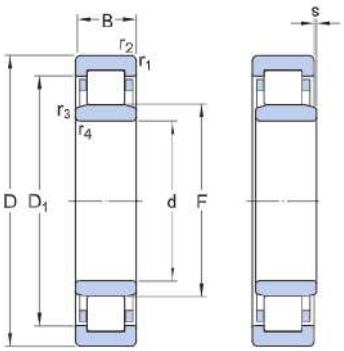
Basic dynamic load rating	64 kN
Basic static load rating	55 kN
Limiting speed	22 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

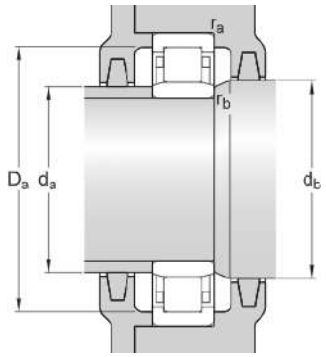
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
D_1	≈ 50.65 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	64 kN
Basic static load rating	C_0	55 kN
Fatigue load limit	P_u	6.95 kN

Reference speed		12 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.38 kg

Associated products

Angle ring	HJ 2305 EC

NU 2305 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	24 mm

Performance

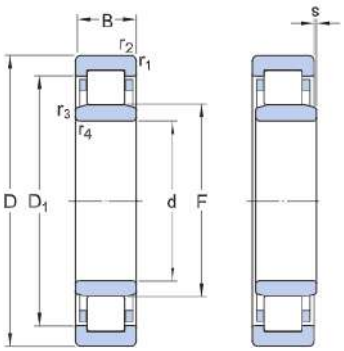
Basic dynamic load rating	64 kN
Basic static load rating	55 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

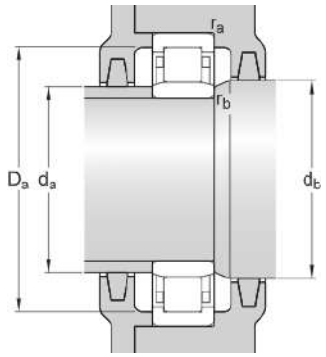
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
D_1	≈ 50.15 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.3 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_a	max. 32.5 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	64 kN
Basic static load rating	C_0	55 kN
Fatigue load limit	P_u	6.95 kN

Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.34 kg

Associated products

Angle ring	HJ 2305 EC

NU 2306 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm

Performance

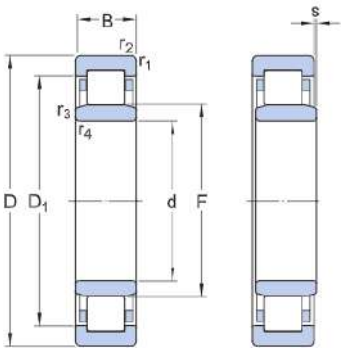
Basic dynamic load rating	83 kN
Basic static load rating	75 kN
Limiting speed	19 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

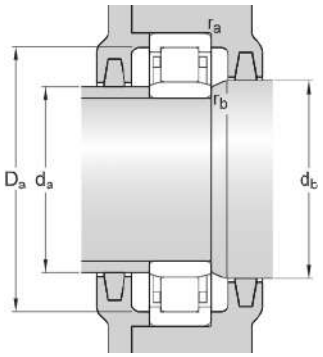
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	27 mm	Width
D_1	≈ 58.85 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	83 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		11 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.58 kg

NU 2306 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm

Performance

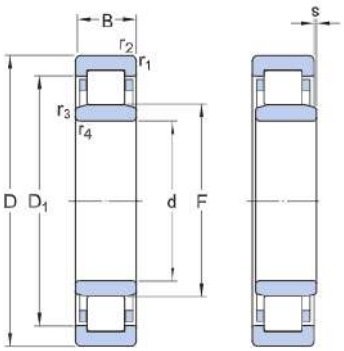
Basic dynamic load rating	83 kN
Basic static load rating	75 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

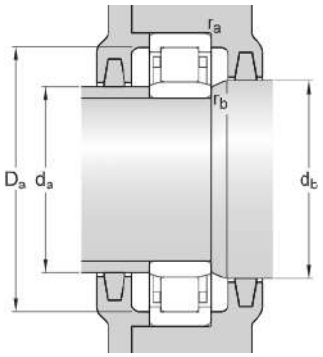
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	27 mm	Width
D_1	≈ 58.48 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	83 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.53 kg

NU 2306 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm

Performance

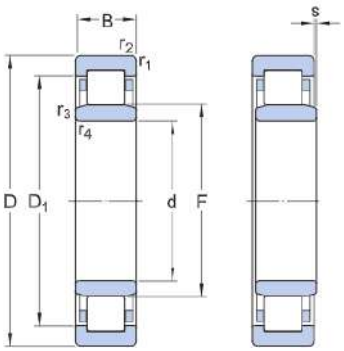
Basic dynamic load rating	83 kN
Basic static load rating	75 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

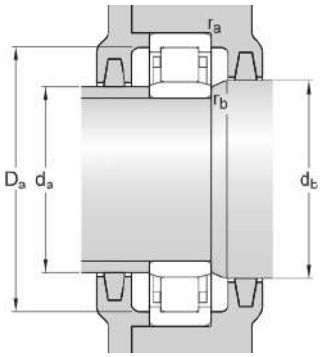
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	27 mm	Width
D_1	≈ 58.48 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_a	max. 39 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	83 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.52 kg

NU 2307 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	31 mm

Performance

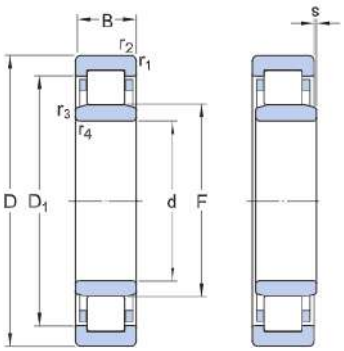
Basic dynamic load rating	106 kN
Basic static load rating	98 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

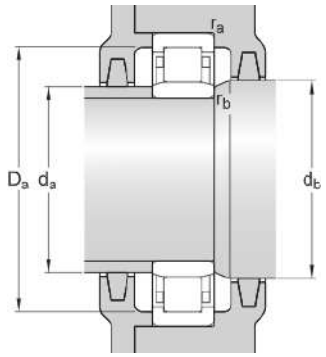
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	31 mm	Width
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 42 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 48 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	98 kN
Fatigue load limit	P_u	12.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.73 kg

NU 2307 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	31 mm

Performance

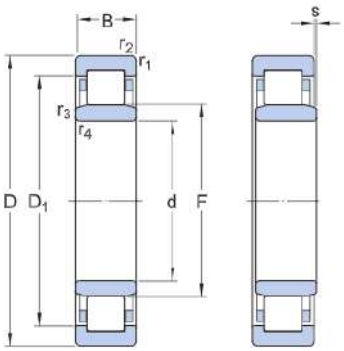
Basic dynamic load rating	106 kN
Basic static load rating	98 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

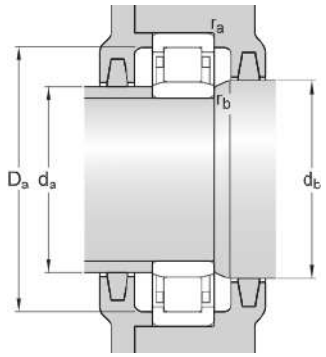
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	31 mm	Width
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 42 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 48 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	98 kN
Fatigue load limit	P_u	12.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.72 kg

NU 2307 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	31 mm

Performance

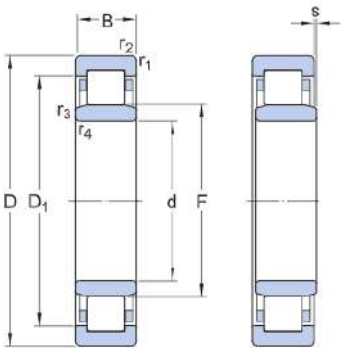
Basic dynamic load rating	106 kN
Basic static load rating	98 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

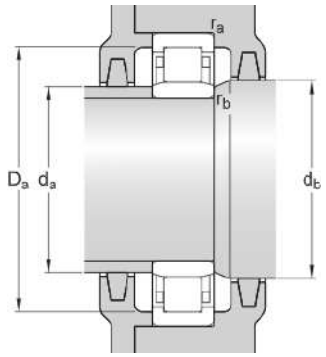
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	31 mm	Width
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension
s	max. 2.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 42 mm	Diameter of spacer sleeve
d_a	max. 44 mm	Diameter of spacer sleeve
d_b	min. 48 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	98 kN
Fatigue load limit	P_u	12.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.72 kg

NU 2308 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

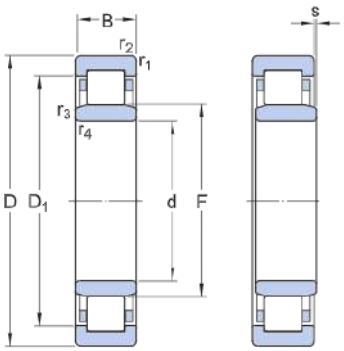
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

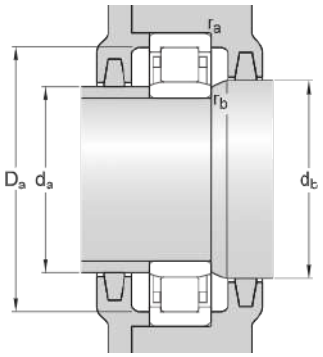
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 2.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_u	15.3 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.96 kg

NU 2308 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

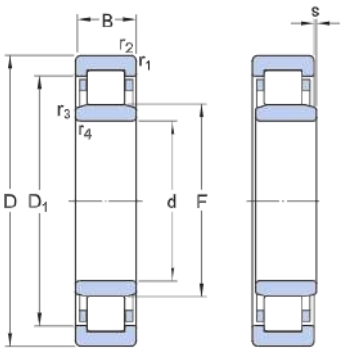
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	15 000 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

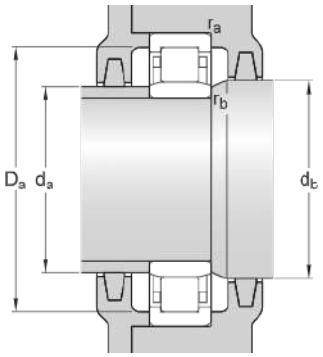
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
D_1	≈ 75.55 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 2.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_u	15.3 kN

Reference speed		8 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.07 kg

NU 2308 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

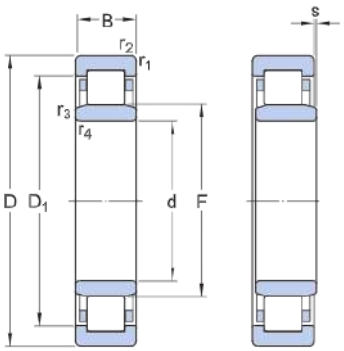
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

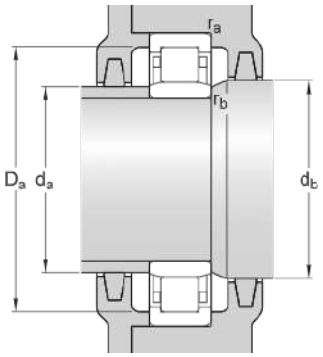
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 2.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_u	15.3 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.93 kg

NU 2308 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

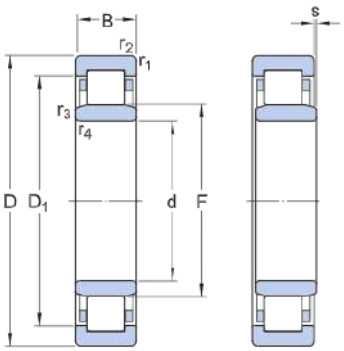
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

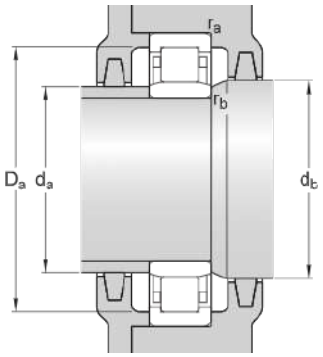
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 2.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_a	max. 50 mm	Diameter of spacer sleeve
d_b	min. 54 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_u	15.3 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.93 kg

NU 2309 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	36 mm

Performance

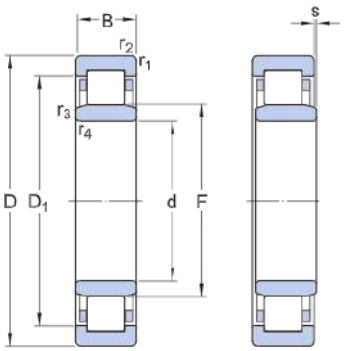
Basic dynamic load rating	160 kN
Basic static load rating	153 kN
Limiting speed	13 000 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

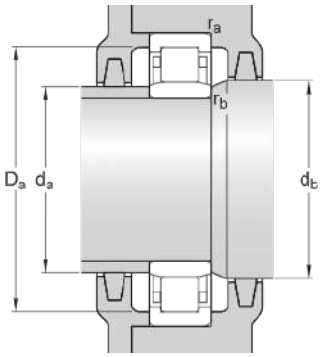
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
D_1	≈ 83.75 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 3.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	160 kN
Basic static load rating	C_0	153 kN
Fatigue load limit	P_u	20 kN

Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		1.46 kg

NU 2309 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	36 mm

Performance

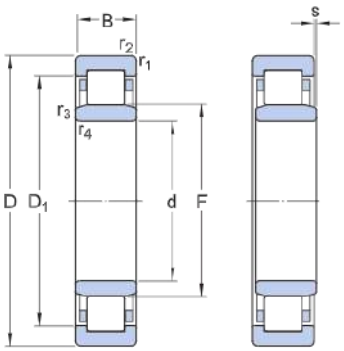
Basic dynamic load rating	160 kN
Basic static load rating	153 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

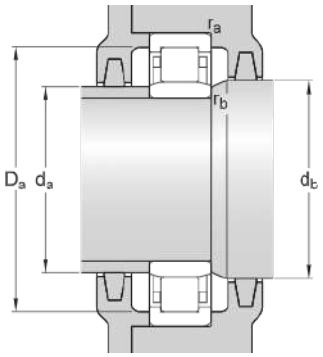
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 3.2 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	160 kN
Basic static load rating	C_0	153 kN
Fatigue load limit	P_u	20 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.27 kg

NU 2310 ECML

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	40 mm

Performance

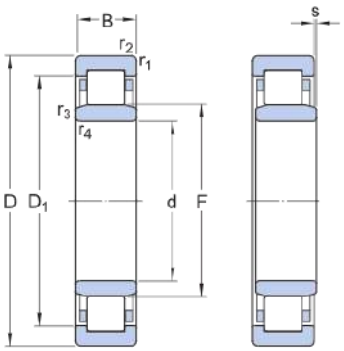
Basic dynamic load rating	186 kN
Basic static load rating	186 kN
Reference speed	6 700 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

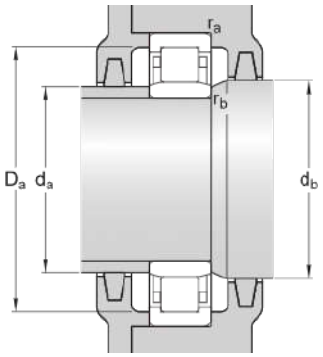
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
D_1	≈ 92.05 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 3.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	186 kN
Fatigue load limit	P_u	24.5 kN

Reference speed		6 700 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.9 kg

NU 2310 ECP

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	40 mm

Performance

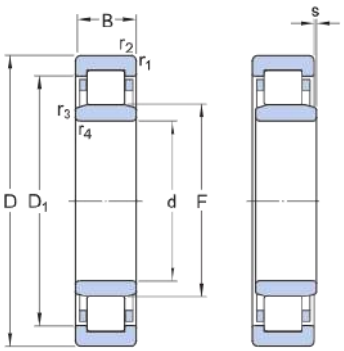
Basic dynamic load rating	186 kN
Basic static load rating	186 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

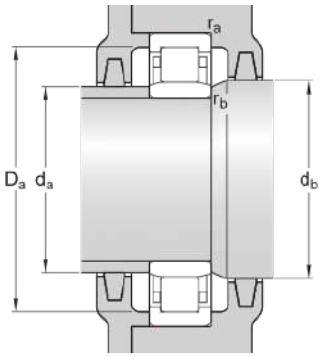
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 3.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	186 kN
Fatigue load limit	P_u	24.5 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		1.73 kg

NU 2310 ECPH

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	40 mm

Performance

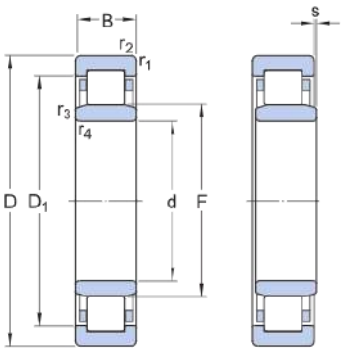
Basic dynamic load rating	186 kN
Basic static load rating	186 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

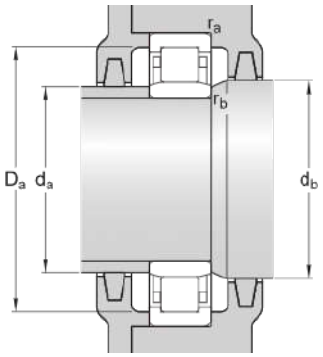
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension
s	max. 3.4 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	186 kN
Fatigue load limit	P_u	24.5 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		1.7 kg

NUH 2220 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	180 mm
Width	46 mm

Performance

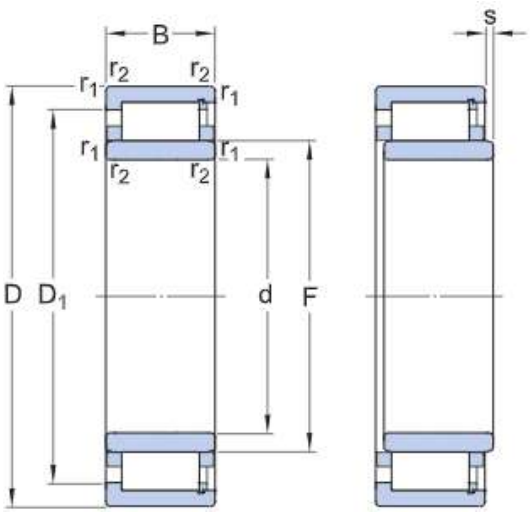
Basic dynamic load rating	400 kN
Basic static load rating	475 kN
Limiting speed	4 500 r/min
Reference speed	4 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

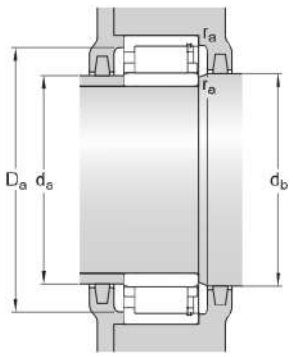
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	100 mm	Bore diameter
D	180 mm	Outside diameter
B	46 mm	Width
D_1	≈ 155.6 mm	Shoulder diameter outer ring
F	119 mm	Raceway diameter inner ring
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 113 mm	Abutment diameter shaft
d_a	max. 116 mm	Abutment diameter shaft
d_b	min. 122 mm	Abutment diameter shaft
D_a	min. 159 mm	Abutment diameter housing
D_a	max. 167.5 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	400 kN
Basic static load rating	C_0	475 kN
Fatigue load limit	P_u	57 kN
Reference speed		4 000 r/min
Limiting speed		4 500 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	5.1 kg

NUH 2220 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	180 mm
Width	46 mm

Performance

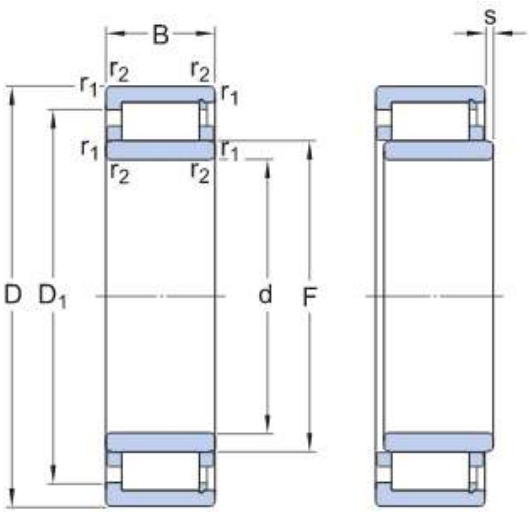
Basic dynamic load rating	400 kN
Basic static load rating	475 kN
Limiting speed	4 500 r/min
Reference speed	4 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

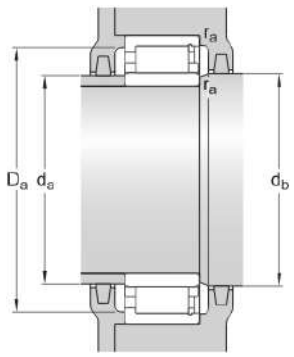
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	100 mm	Bore diameter
D	180 mm	Outside diameter
B	46 mm	Width
D_1	≈ 155.6 mm	Shoulder diameter outer ring
F	119 mm	Raceway diameter inner ring
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 113 mm	Abutment diameter shaft
d_a	max. 116 mm	Abutment diameter shaft
d_b	min. 122 mm	Abutment diameter shaft
D_a	min. 159 mm	Abutment diameter housing
D_a	max. 167.5 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	400 kN
Basic static load rating	C_0	475 kN
Fatigue load limit	P_u	57 kN
Reference speed		4 000 r/min
Limiting speed		4 500 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	5.1 kg

NUH 2222 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	200 mm
Width	53 mm

Performance

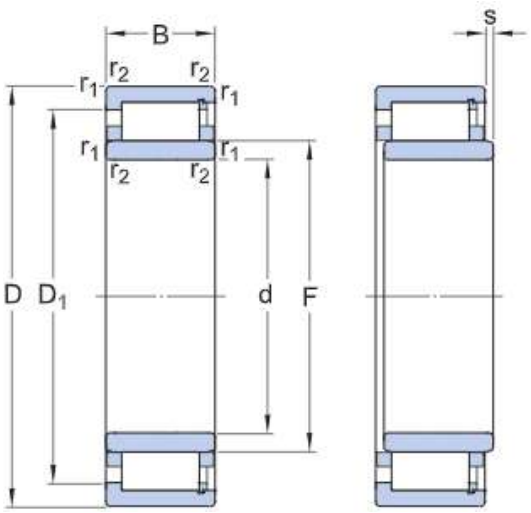
Basic dynamic load rating	465 kN
Basic static load rating	550 kN
Limiting speed	4 000 r/min
Reference speed	3 600 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

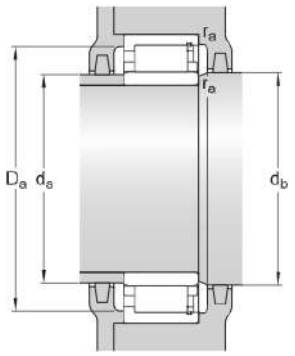
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	53 mm	Width
D_1	≈ 172.5 mm	Shoulder diameter outer ring
F	132.5 mm	Raceway diameter inner ring
s	max. 2.2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 122 mm	Abutment diameter shaft
d_a	max. 129 mm	Abutment diameter shaft
d_b	min. 135 mm	Abutment diameter shaft
D_a	min. 177 mm	Abutment diameter housing
D_a	max. 187 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	465 kN
Basic static load rating	C_0	550 kN
Fatigue load limit	P_u	64 kN
Reference speed		3 600 r/min
Limiting speed		4 000 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	7.3 kg

NUH 2226 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	230 mm
Width	64 mm

Performance

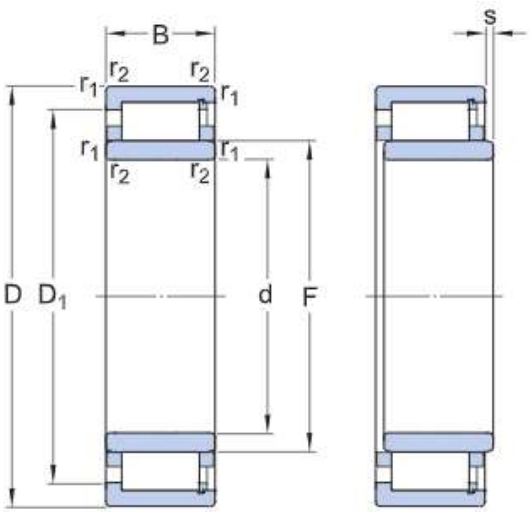
Basic dynamic load rating	630 kN
Basic static load rating	780 kN
Limiting speed	3 400 r/min
Reference speed	3 200 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

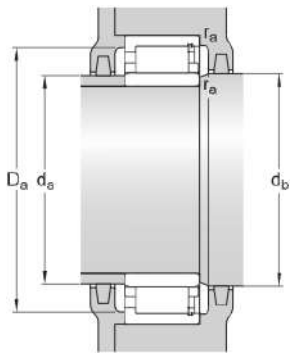
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	130 mm	Bore diameter
D	230 mm	Outside diameter
B	64 mm	Width
D_1	≈ 200.3 mm	Shoulder diameter outer ring
F	153.5 mm	Raceway diameter inner ring
s	max. 2.6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 144 mm	Abutment diameter shaft
d_a	max. 150 mm	Abutment diameter shaft
d_b	min. 157 mm	Abutment diameter shaft
D_a	min. 205 mm	Abutment diameter housing
D_a	max. 215.4 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	630 kN
Basic static load rating	C_0	780 kN
Fatigue load limit	P_u	88 kN
Reference speed		3 200 r/min
Limiting speed		3 400 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	11 kg

NUH 2228 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	250 mm
Width	68 mm

Performance

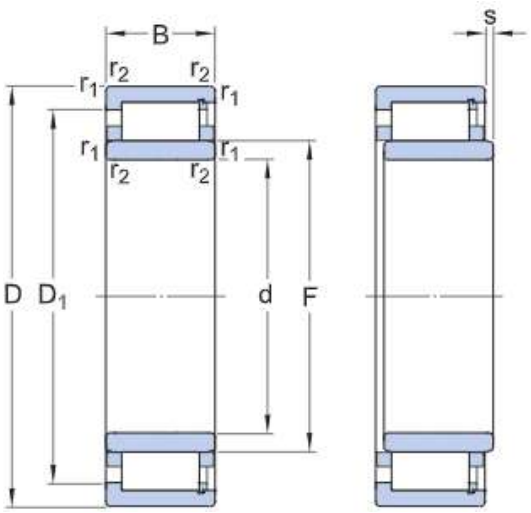
Basic dynamic load rating	680 kN
Basic static load rating	880 kN
Limiting speed	3 200 r/min
Reference speed	2 800 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

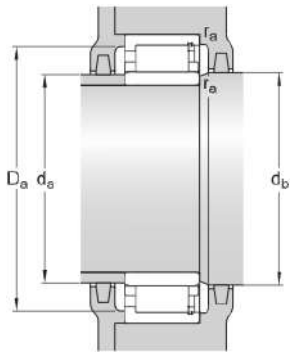
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	140 mm	Bore diameter
D	250 mm	Outside diameter
B	68 mm	Width
D_1	≈ 215.8 mm	Shoulder diameter outer ring
F	169 mm	Raceway diameter inner ring
s	max. 3.2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 154 mm	Abutment diameter shaft
d_a	max. 165 mm	Abutment diameter shaft
d_b	min. 172 mm	Abutment diameter shaft
D_a	min. 220 mm	Abutment diameter housing
D_a	max. 235 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	680 kN
Basic static load rating	C_0	880 kN
Fatigue load limit	P_u	96.5 kN
Reference speed		2 800 r/min
Limiting speed		3 200 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	14.3 kg

NUH 2230 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	270 mm
Width	73 mm

Performance

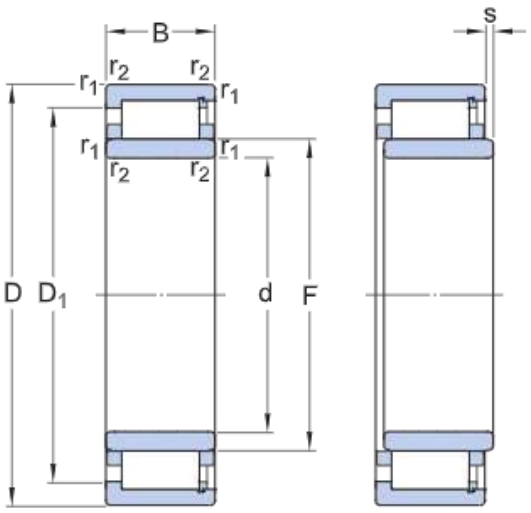
Basic dynamic load rating	780 kN
Basic static load rating	1 040 kN
Limiting speed	2 800 r/min
Reference speed	2 600 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

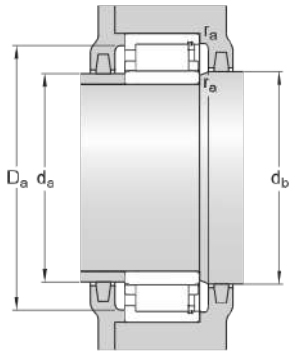
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	150 mm	Bore diameter
D	270 mm	Outside diameter
B	73 mm	Width
D_1	≈ 232.2 mm	Shoulder diameter outer ring
F	182 mm	Raceway diameter inner ring
s	max. 3.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 164 mm	Abutment diameter shaft
d_a	max. 178 mm	Abutment diameter shaft
d_b	min. 186 mm	Abutment diameter shaft
D_a	min. 237 mm	Abutment diameter housing
D_a	max. 254.6 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	780 kN
Basic static load rating	C_0	1 040 kN
Fatigue load limit	P_u	112 kN
Reference speed		2 600 r/min
Limiting speed		2 800 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	18.1 kg

NUH 2230 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	270 mm
Width	73 mm

Performance

Basic dynamic load rating	780 kN
Basic static load rating	1 040 kN
Limiting speed	2 800 r/min
Reference speed	2 600 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specificatio

NUH 2230 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	270 mm
Width	73 mm

Performance

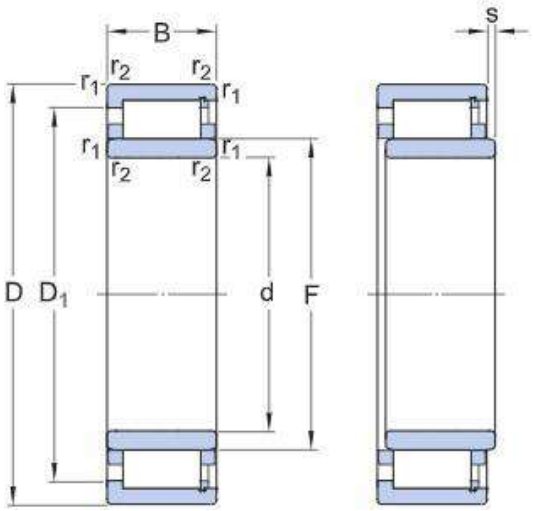
Basic dynamic load rating	780 kN
Basic static load rating	1 040 kN
Limiting speed	2 800 r/min
Reference speed	2 600 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification

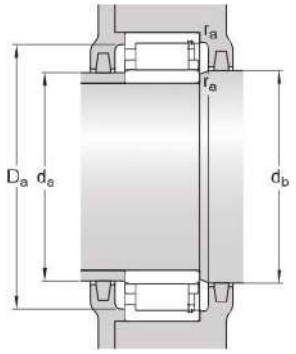
SKF performance class	SKF Explorer



Dimensions

d	150 mm	Bore diameter
D	270 mm	Outside diameter
B	73 mm	Width
D_1	≈ 232.2 mm	Shoulder diameter outer ring
F	182 mm	Raceway diameter inner ring
s	max. 3.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension

Abutment dimensions



d_a	min. 164 mm	Abutment diameter shaft
d_a	max. 178 mm	Abutment diameter shaft
d_b	min. 186 mm	Abutment diameter shaft
D_a	min. 237 mm	Abutment diameter housing
D_a	max. 254.6 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	780 kN
Basic static load rating	C_0	1 040 kN
Fatigue load limit	P_u	112 kN
Reference speed		2 600 r/min

Limiting speed		2 800 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	18.1 kg

NUH 2234 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	310 mm
Width	86 mm

Performance

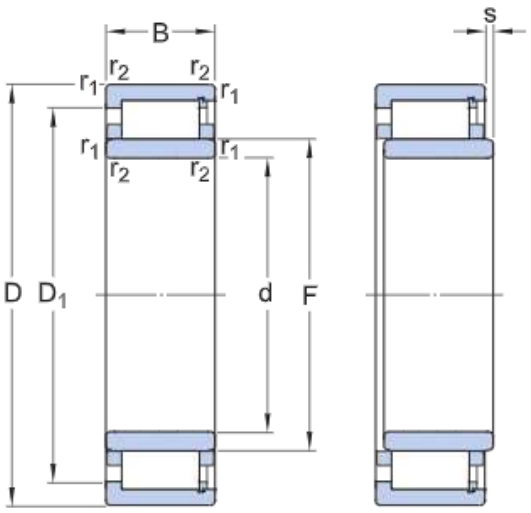
Basic dynamic load rating	1 160 kN
Basic static load rating	1 530 kN
Limiting speed	2 400 r/min
Reference speed	2 200 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

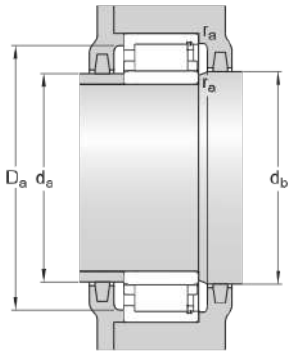
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	170 mm	Bore diameter
D	310 mm	Outside diameter
B	86 mm	Width
D_1	≈ 268.8 mm	Shoulder diameter outer ring
F	205 mm	Raceway diameter inner ring
s	max. 2.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 187 mm	Abutment diameter shaft
d_a	max. 201 mm	Abutment diameter shaft
d_b	min. 208 mm	Abutment diameter shaft
D_a	min. 275 mm	Abutment diameter housing
D_a	max. 292.4 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 160 kN
Basic static load rating	C_0	1 530 kN
Fatigue load limit	P_u	156 kN
Reference speed		2 200 r/min
Limiting speed		2 400 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	28.6 kg

NUH 2236 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	320 mm
Width	86 mm

Performance

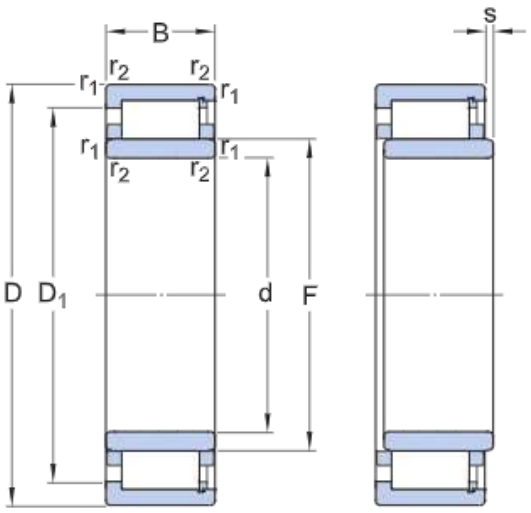
Basic dynamic load rating	1 200 kN
Basic static load rating	1 600 kN
Limiting speed	2 400 r/min
Reference speed	2 200 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

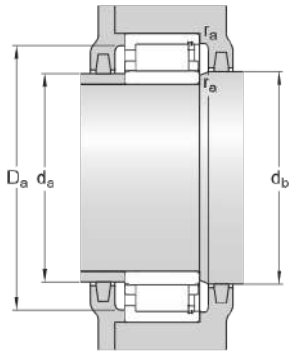
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	180 mm	Bore diameter
D	320 mm	Outside diameter
B	86 mm	Width
D_1	≈ 278.8 mm	Shoulder diameter outer ring
F	215 mm	Raceway diameter inner ring
s	max. 2.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 197 mm	Abutment diameter shaft
d_a	max. 211 mm	Abutment diameter shaft
d_b	min. 218 mm	Abutment diameter shaft
D_a	min. 285 mm	Abutment diameter housing
D_a	max. 302.2 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 200 kN
Basic static load rating	C_0	1 600 kN
Fatigue load limit	P_u	166 kN
Reference speed		2 200 r/min
Limiting speed		2 400 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	29.7 kg

NUH 2238 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	340 mm
Width	92 mm

Performance

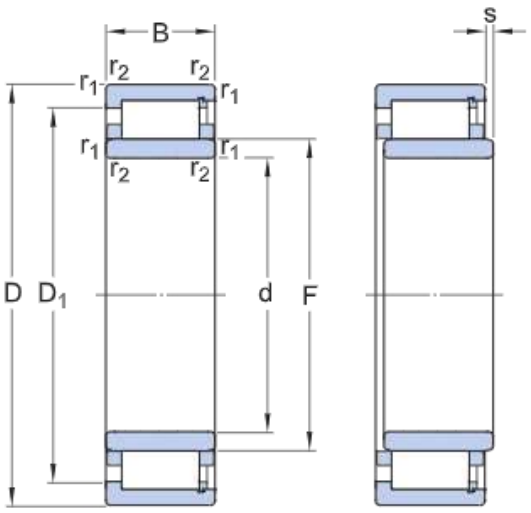
Basic dynamic load rating	1 320 kN
Basic static load rating	1 760 kN
Limiting speed	2 200 r/min
Reference speed	2 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

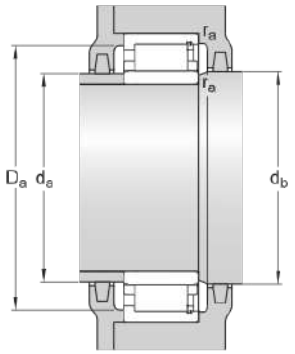
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	190 mm	Bore diameter
D	340 mm	Outside diameter
B	92 mm	Width
D_1	≈ 295.2 mm	Shoulder diameter outer ring
F	228 mm	Raceway diameter inner ring
s	max. 3.1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 207 mm	Abutment diameter shaft
d_a	max. 224 mm	Abutment diameter shaft
d_b	min. 231 mm	Abutment diameter shaft
D_a	min. 302 mm	Abutment diameter housing
D_a	max. 321.9 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 320 kN
Basic static load rating	C_0	1 760 kN
Fatigue load limit	P_u	180 kN
Reference speed		2 000 r/min
Limiting speed		2 200 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	36 kg

NUH 2240 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	360 mm
Width	98 mm

Performance

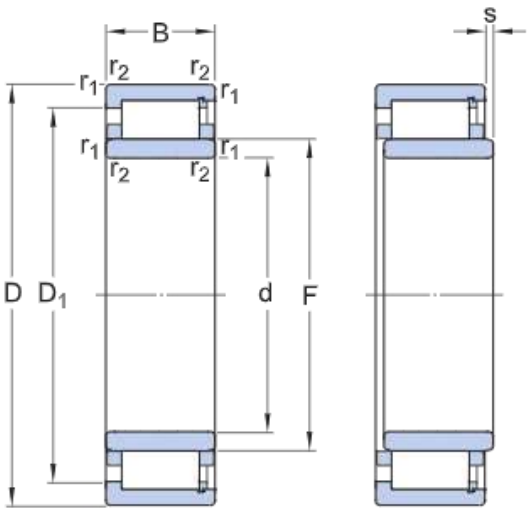
Basic dynamic load rating	1 460 kN
Basic static load rating	2 000 kN
Limiting speed	2 200 r/min
Reference speed	1 900 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

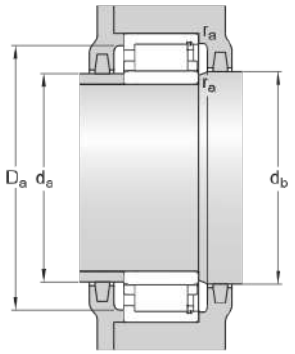
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	200 mm	Bore diameter
D	360 mm	Outside diameter
B	98 mm	Width
D_1	≈ 311.6 mm	Shoulder diameter outer ring
F	241 mm	Raceway diameter inner ring
s	max. 3.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 217 mm	Abutment diameter shaft
d_a	max. 236 mm	Abutment diameter shaft
d_b	min. 245 mm	Abutment diameter shaft
D_a	min. 318 mm	Abutment diameter housing
D_a	max. 341.6 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 460 kN
Basic static load rating	C_0	2 000 kN
Fatigue load limit	P_u	200 kN
Reference speed		1 900 r/min
Limiting speed		2 200 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	43.4 kg

NUH 2248 ECMH/PEX

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	440 mm
Width	120 mm

Performance

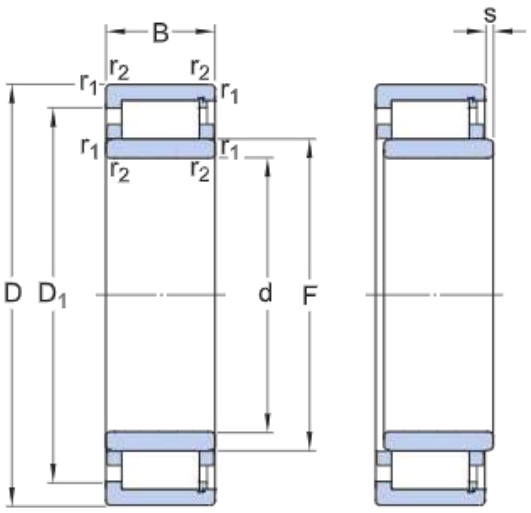
Basic dynamic load rating	2 280 kN
Basic static load rating	3 050 kN
Limiting speed	1 700 r/min
Reference speed	1 600 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

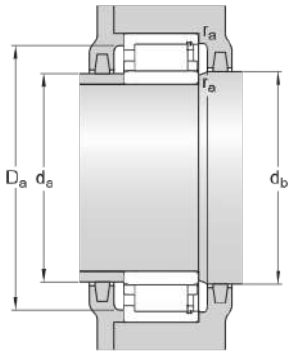
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	240 mm	Bore diameter
D	440 mm	Outside diameter
B	120 mm	Width
D_1	≈ 311.6 mm	Shoulder diameter outer ring
F	287 mm	Raceway diameter inner ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 258 mm	Abutment diameter shaft
d_a	max. 294 mm	Abutment diameter shaft
d_b	min. 299 mm	Abutment diameter shaft
D_a	min. 299 mm	Abutment diameter housing
D_a	max. 422.6 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 280 kN
Basic static load rating	C_0	3 050 kN
Fatigue load limit	P_u	275 kN
Reference speed		1 600 r/min
Limiting speed		1 700 r/min
Calculation factor	k_r	0.16

Mass

Mass bearing	80 kg

NUH 2320 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	215 mm
Width	73 mm

Performance

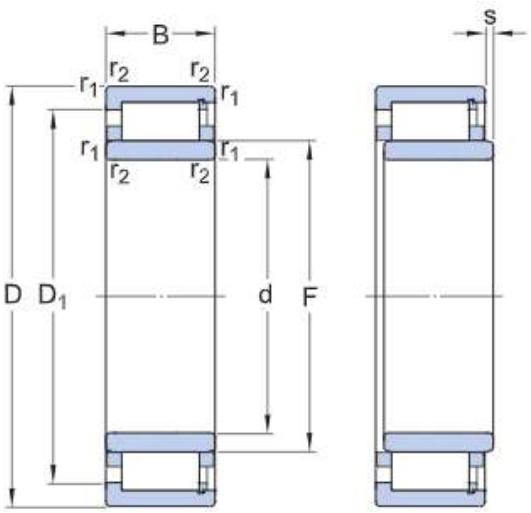
Basic dynamic load rating	710 kN
Basic static load rating	800 kN
Limiting speed	3 800 r/min
Reference speed	3 200 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

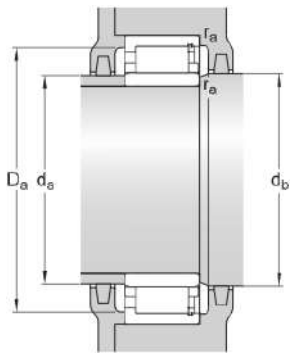
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	100 mm	Bore diameter
D	215 mm	Outside diameter
B	73 mm	Width
D_1	≈ 181.1 mm	Shoulder diameter outer ring
F	127.5 mm	Raceway diameter inner ring
s	max. 2.2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 114 mm	Abutment diameter shaft
d_a	max. 124 mm	Abutment diameter shaft
d_b	min. 131 mm	Abutment diameter shaft
D_a	min. 186 mm	Abutment diameter housing
D_a	max. 199.6 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	710 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	91.5 kN
Reference speed		3 200 r/min
Limiting speed		3 800 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	12.8 kg

NUH 2322 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	240 mm
Width	80 mm

Performance

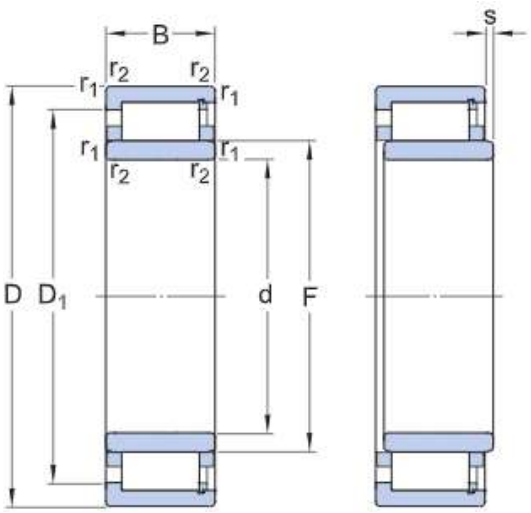
Basic dynamic load rating	830 kN
Basic static load rating	965 kN
Limiting speed	3 400 r/min
Reference speed	3 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

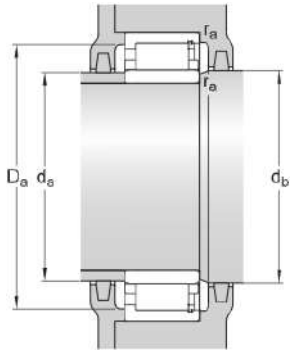
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	110 mm	Bore diameter
D	240 mm	Outside diameter
B	80 mm	Width
D_1	≈ 200 mm	Shoulder diameter outer ring
F	143 mm	Raceway diameter inner ring
s	max. 2.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 124 mm	Abutment diameter shaft
d_a	max. 139 mm	Abutment diameter shaft
d_b	min. 146 mm	Abutment diameter shaft
D_a	min. 206 mm	Abutment diameter housing
D_a	max. 225.2 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	830 kN
Basic static load rating	C_0	965 kN
Fatigue load limit	P_u	110 kN
Reference speed		3 000 r/min
Limiting speed		3 400 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	17.8 kg

NUH 2324 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	260 mm
Width	86 mm

Performance

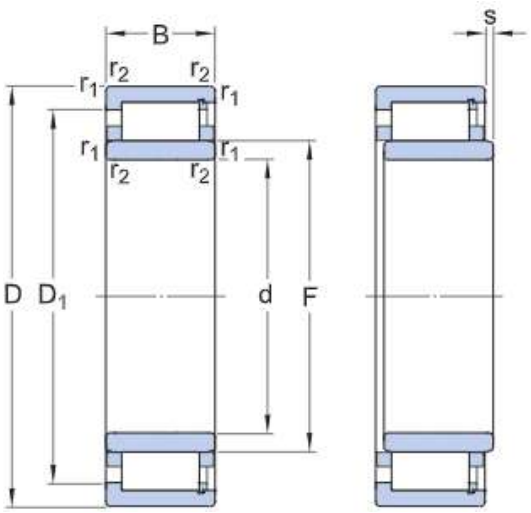
Basic dynamic load rating	965 kN
Basic static load rating	1 120 kN
Limiting speed	3 200 r/min
Reference speed	2 800 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

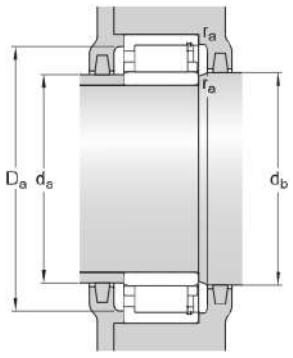
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	120 mm	Bore diameter
D	260 mm	Outside diameter
B	86 mm	Width
D_1	≈ 217.8 mm	Shoulder diameter outer ring
F	154 mm	Raceway diameter inner ring
s	max. 2.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 134 mm	Abutment diameter shaft
d_a	max. 150 mm	Abutment diameter shaft
d_b	min. 157 mm	Abutment diameter shaft
D_a	min. 224 mm	Abutment diameter housing
D_a	max. 244.8 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	965 kN
Basic static load rating	C_0	1 120 kN
Fatigue load limit	P_u	125 kN
Reference speed		2 800 r/min
Limiting speed		3 200 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	22.3 kg

NUH 2326 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	280 mm
Width	93 mm

Performance

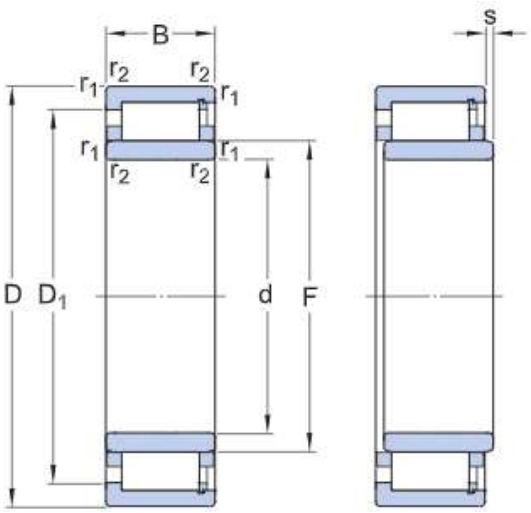
Basic dynamic load rating	1 120 kN
Basic static load rating	1 340 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

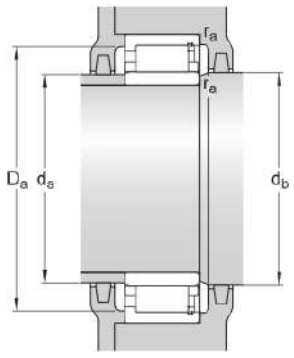
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	130 mm	Bore diameter
D	280 mm	Outside diameter
B	93 mm	Width
D_1	≈ 234.2 mm	Shoulder diameter outer ring
F	167 mm	Raceway diameter inner ring
s	max. 3.1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 147 mm	Abutment diameter shaft
d_a	max. 163 mm	Abutment diameter shaft
d_b	min. 170 mm	Abutment diameter shaft
D_a	min. 241 mm	Abutment diameter housing
D_a	max. 261.4 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 120 kN
Basic static load rating	C_0	1 340 kN
Fatigue load limit	P_u	146 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	28.1 kg

NUH 2328 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	300 mm
Width	102 mm

Performance

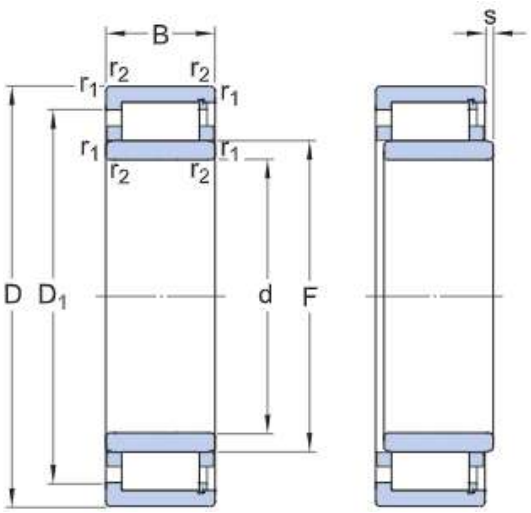
Basic dynamic load rating	1 250 kN
Basic static load rating	1 530 kN
Limiting speed	2 800 r/min
Reference speed	2 400 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

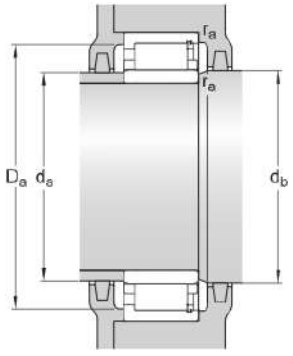
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	140 mm	Bore diameter
D	300 mm	Outside diameter
B	102 mm	Width
D_1	≈ 250.6 mm	Shoulder diameter outer ring
F	180 mm	Raceway diameter inner ring
s	max. 3.9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 157 mm	Abutment diameter shaft
d_a	max. 175 mm	Abutment diameter shaft
d_b	min. 183 mm	Abutment diameter shaft
D_a	min. 257 mm	Abutment diameter housing
D_a	max. 282.5 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 250 kN
Basic static load rating	C_0	1 530 kN
Fatigue load limit	P_u	163 kN
Reference speed		2 400 r/min
Limiting speed		2 800 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	35 kg

NUH 2330 ECMH

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	320 mm
Width	108 mm

Performance

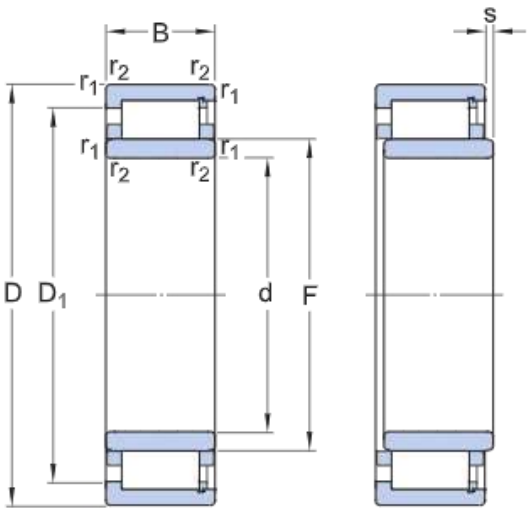
Basic dynamic load rating	1 430 kN
Basic static load rating	1 760 kN
Limiting speed	2 600 r/min
Reference speed	2 200 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

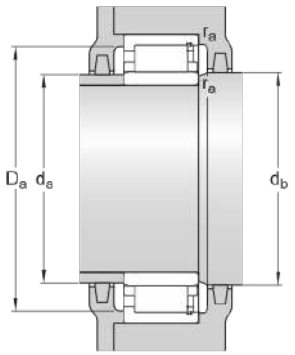
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	150 mm	Bore diameter
D	320 mm	Outside diameter
B	108 mm	Width
D_1	≈ 269 mm	Shoulder diameter outer ring
F	193 mm	Raceway diameter inner ring
s	max. 4.1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 167 mm	Abutment diameter shaft
d_a	max. 188 mm	Abutment diameter shaft
d_b	min. 196 mm	Abutment diameter shaft
D_a	min. 284 mm	Abutment diameter housing
D_a	max. 302.2 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 430 kN
Basic static load rating	C_0	1 760 kN
Fatigue load limit	P_u	183 kN
Reference speed		2 200 r/min
Limiting speed		2 600 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	42 kg

NUH 2332 ECMH/PEX

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	340 mm
Width	114 mm

Performance

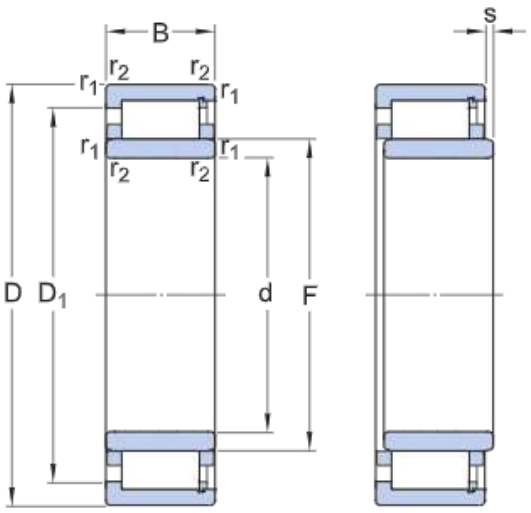
Basic dynamic load rating	1 600 kN
Basic static load rating	2 000 kN
Limiting speed	2 400 r/min
Reference speed	2 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

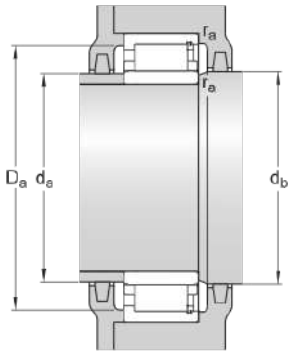
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	160 mm	Bore diameter
D	340 mm	Outside diameter
B	114 mm	Width
D_1	≈ 284.8 mm	Shoulder diameter outer ring
F	204 mm	Raceway diameter inner ring
s	max. 2.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 177 mm	Abutment diameter shaft
d_a	max. 199 mm	Abutment diameter shaft
d_b	min. 207 mm	Abutment diameter shaft
D_a	min. 292 mm	Abutment diameter housing
D_a	max. 321.9 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 600 kN
Basic static load rating	C_0	2 000 kN
Fatigue load limit	P_u	196 kN
Reference speed		2 000 r/min
Limiting speed		2 400 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	50.3 kg

NUH 2334 ECMH/PEX

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	360 mm
Width	120 mm

Performance

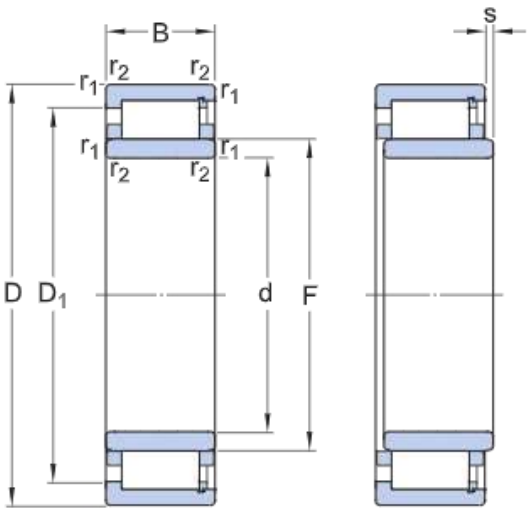
Basic dynamic load rating	1 760 kN
Basic static load rating	2 200 kN
Limiting speed	2 200 r/min
Reference speed	1 900 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

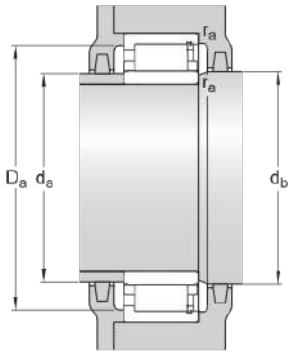
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	170 mm	Bore diameter
D	360 mm	Outside diameter
B	120 mm	Width
D_1	≈ 300.2 mm	Shoulder diameter outer ring
F	216 mm	Raceway diameter inner ring
s	max. 3.8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 186 mm	Abutment diameter shaft
d_a	max. 211 mm	Abutment diameter shaft
d_b	min. 219 mm	Abutment diameter shaft
D_a	min. 308 mm	Abutment diameter housing
D_a	max. 341.6 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 760 kN
Basic static load rating	C_0	2 200 kN
Fatigue load limit	P_u	216 kN
Reference speed		1 900 r/min
Limiting speed		2 200 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	59.4 kg

NUH 2336 ECMH/PEX

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	380 mm
Width	126 mm

Performance

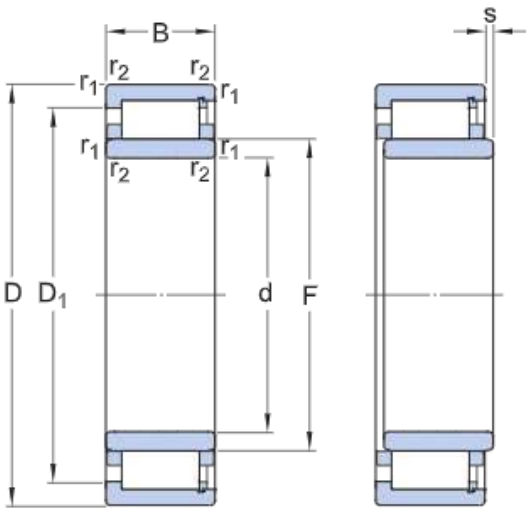
Basic dynamic load rating	1 960 kN
Basic static load rating	2 400 kN
Limiting speed	2 200 r/min
Reference speed	1 800 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

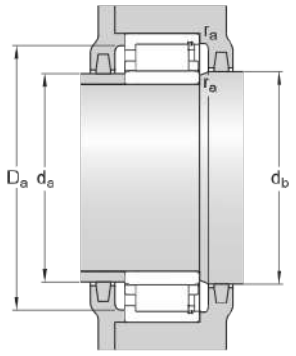
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	180 mm	Bore diameter
D	380 mm	Outside diameter
B	126 mm	Width
D_1	≈ 321.4 mm	Shoulder diameter outer ring
F	227 mm	Raceway diameter inner ring
s	max. 3.7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 196 mm	Abutment diameter shaft
d_a	max. 222 mm	Abutment diameter shaft
d_b	min. 230 mm	Abutment diameter shaft
D_a	min. 311 mm	Abutment diameter housing
D_a	max. 361.3 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 960 kN
Basic static load rating	C_0	2 400 kN
Fatigue load limit	P_u	232 kN
Reference speed		1 800 r/min
Limiting speed		2 200 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	67.9 kg

NUH 2338 ECMH/PEX

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	400 mm
Width	132 mm

Performance

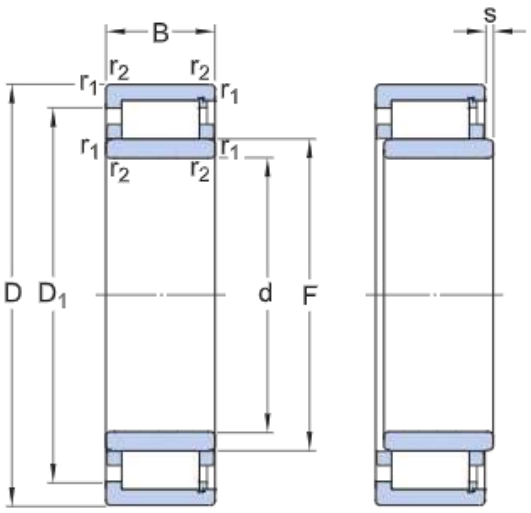
Basic dynamic load rating	2 240 kN
Basic static load rating	2 750 kN
Limiting speed	2 000 r/min
Reference speed	1 700 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

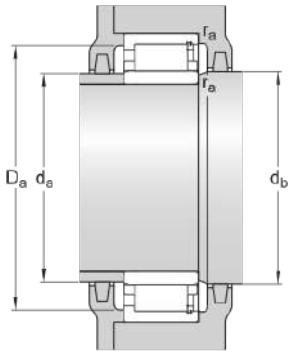
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	190 mm	Bore diameter
D	400 mm	Outside diameter
B	132 mm	Width
D_1	≈ 341.2 mm	Shoulder diameter outer ring
F	240 mm	Raceway diameter inner ring
s	max. 4.1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 209 mm	Abutment diameter shaft
d_a	max. 234 mm	Abutment diameter shaft
d_b	min. 244 mm	Abutment diameter shaft
D_a	min. 351 mm	Abutment diameter housing
D_a	max. 380 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 240 kN
Basic static load rating	C_0	2 750 kN
Fatigue load limit	P_u	255 kN
Reference speed		1 700 r/min
Limiting speed		2 000 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	78.6 kg

NUH 2340 ECMH/PEX

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	420 mm
Width	138 mm

Performance

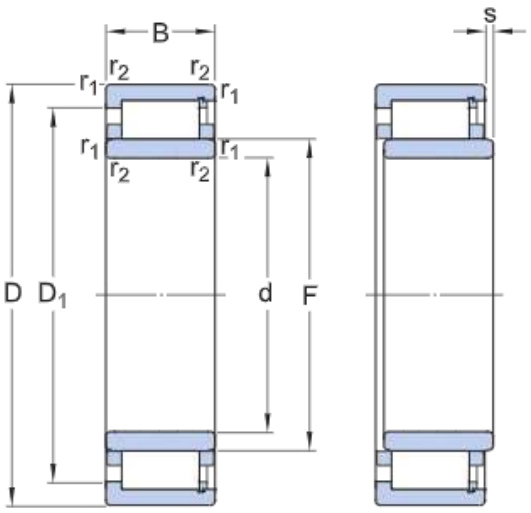
Basic dynamic load rating	2 550 kN
Basic static load rating	3 200 kN
Limiting speed	1 900 r/min
Reference speed	1 600 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

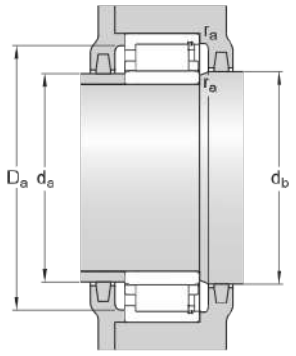
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	200 mm	Bore diameter
D	420 mm	Outside diameter
B	138 mm	Width
D_1	≈ 357.6 mm	Shoulder diameter outer ring
F	253 mm	Raceway diameter inner ring
s	max. 4.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 220 mm	Abutment diameter shaft
d_a	max. 247 mm	Abutment diameter shaft
d_b	min. 257 mm	Abutment diameter shaft
D_a	min. 367 mm	Abutment diameter housing
D_a	max. 399.8 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 550 kN
Basic static load rating	C_0	3 200 kN
Fatigue load limit	P_u	300 kN
Reference speed		1 600 r/min
Limiting speed		1 900 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	92.7 kg

NUH 2344 ECMH/PEX

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	460 mm
Width	145 mm

Performance

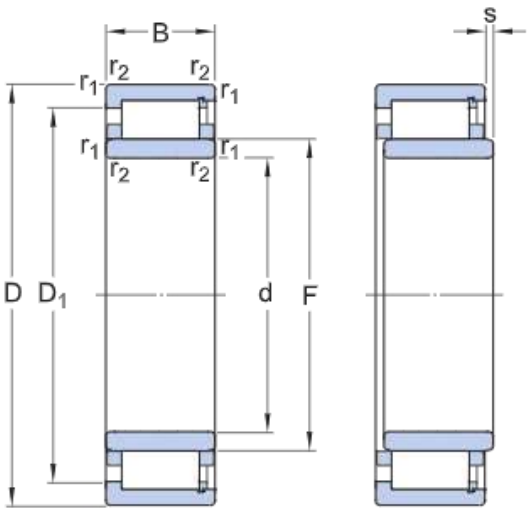
Basic dynamic load rating	2 900 kN
Basic static load rating	3 650 kN
Limiting speed	1 700 r/min
Reference speed	1 400 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

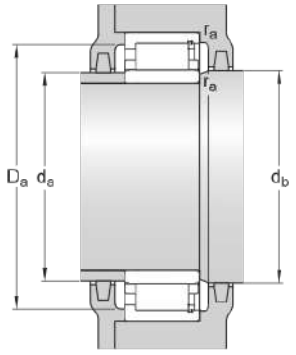
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	220 mm	Bore diameter
D	460 mm	Outside diameter
B	145 mm	Width
D_1	≈ 391.8 mm	Shoulder diameter outer ring
F	277 mm	Raceway diameter inner ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 240 mm	Abutment diameter shaft
d_a	max. 270 mm	Abutment diameter shaft
d_b	min. 281 mm	Abutment diameter shaft
D_a	min. 334 mm	Abutment diameter housing
D_a	max. 439.4 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 900 kN
Basic static load rating	C_0	3 650 kN
Fatigue load limit	P_u	335 kN
Reference speed		1 400 r/min
Limiting speed		1 700 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	116 kg

NUH 2348 ECMH/PEX

Single row cylindrical roller bearing

Single row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as standard, full complement and high capacity bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- High to very high radial load carrying capacity
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	500 mm
Width	155 mm

Performance

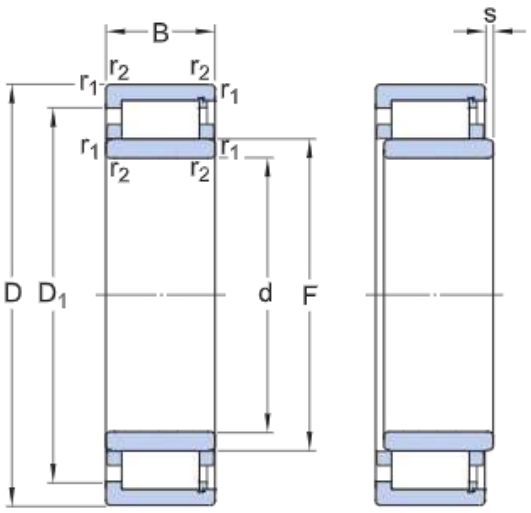
Basic dynamic load rating	3 150 kN
Basic static load rating	4 000 kN
Limiting speed	1 500 r/min
Reference speed	1 300 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

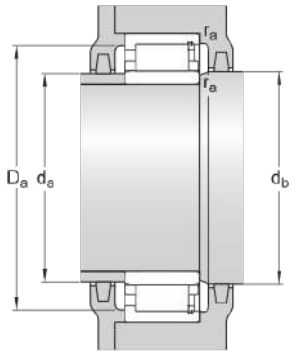
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	240 mm	Bore diameter
D	500 mm	Outside diameter
B	155 mm	Width
D_1	≈ 425.7 mm	Shoulder diameter outer ring
F	299 mm	Raceway diameter inner ring
s	max. 3.1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 260 mm	Abutment diameter shaft
d_a	max. 298 mm	Abutment diameter shaft
d_b	min. 303 mm	Abutment diameter shaft
D_a	min. 362 mm	Abutment diameter housing
D_a	max. 479 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 150 kN
Basic static load rating	C_0	4 000 kN
Fatigue load limit	P_u	345 kN
Reference speed		1 300 r/min
Limiting speed		1 500 r/min
Calculation factor	k_r	0.2

Mass

Mass bearing	143 kg

NUP 203 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	12 mm

Performance

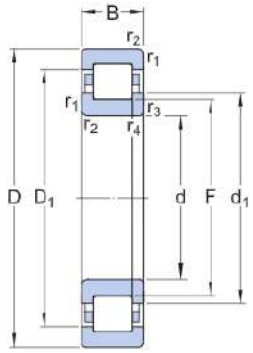
Basic dynamic load rating	20 kN
Basic static load rating	14.3 kN
Limiting speed	22 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

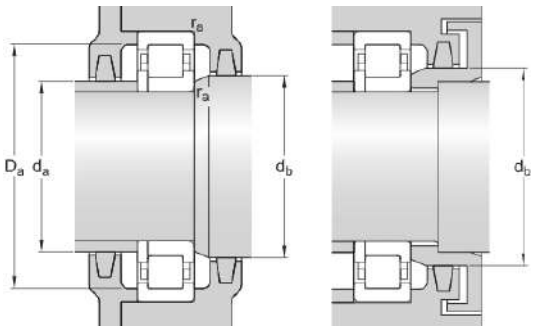
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	12 mm	Width
d_1	≈ 25 mm	Shoulder diameter of inner ring
D_1	≈ 32 mm	Shoulder diameter of outer ring
F	22.1 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 20.7 mm	Diameter of spacer sleeve
d_b	min. 27 mm	Diameter of shaft abutment
D_a	max. 36 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	20 kN
Basic static load rating	C_0	14.3 kN
Fatigue load limit	P_u	1.73 kN

Reference speed		20 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.072 kg

NUP 204 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

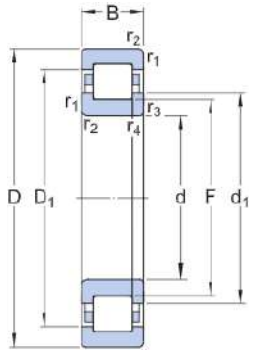
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	30 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

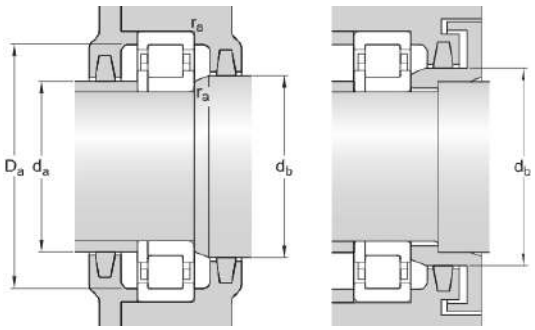
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 29.7 mm	Shoulder diameter of inner ring
D_1	≈ 38.8 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 25 mm	Diameter of spacer sleeve
d_b	min. 31 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN
Fatigue load limit	P_u	2.75 kN

Reference speed		17 000 r/min
Limiting speed		30 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.13 kg

NUP 204 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

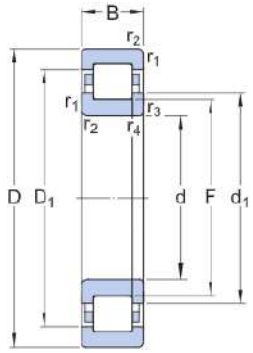
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	19 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

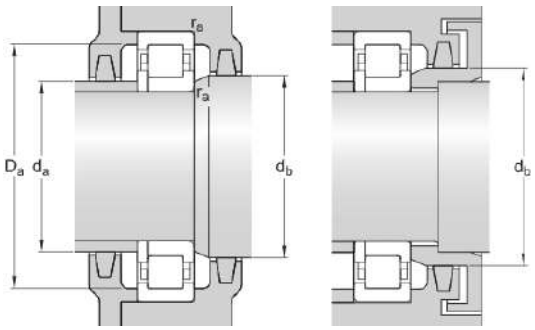
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 29.7 mm	Shoulder diameter of inner ring
D_1	≈ 38.44 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 25 mm	Diameter of spacer sleeve
d_b	min. 31 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN
Fatigue load limit	P_u	2.75 kN

Reference speed		17 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.12 kg

NUP 204 ECPHA

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

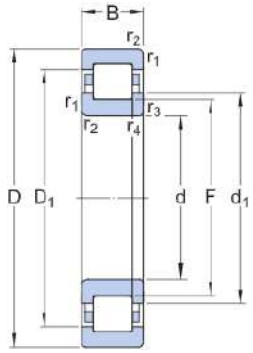
Basic dynamic load rating	28.5 kN
Basic static load rating	22 kN
Limiting speed	24 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

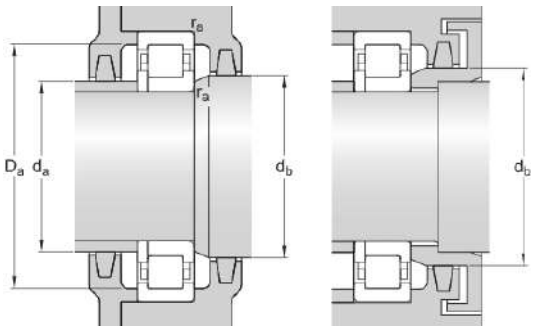
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 29.7 mm	Shoulder diameter of inner ring
D_1	≈ 38.8 mm	Shoulder diameter of outer ring
F	26.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 25 mm	Diameter of spacer sleeve
d_b	min. 31 mm	Diameter of shaft abutment
D_a	max. 41.7 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	28.5 kN
Basic static load rating	C_0	22 kN
Fatigue load limit	P_u	2.75 kN

Reference speed		17 000 r/min
Limiting speed		24 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.11 kg

NUP 205 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

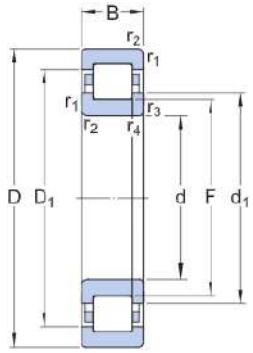
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	26 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

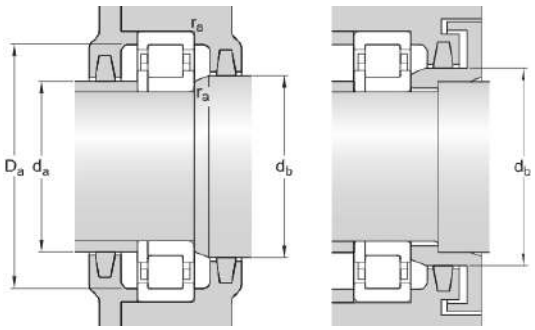
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 34.7 mm	Shoulder diameter of inner ring
D_1	≈ 43.8 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 29.9 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN
Fatigue load limit	P_u	3.35 kN

Reference speed		15 000 r/min
Limiting speed		26 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.17 kg

NUP 205 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

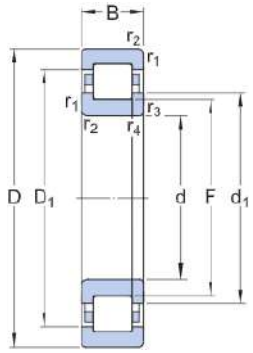
Basic dynamic load rating	32.5 kN
Basic static load rating	27 kN
Limiting speed	16 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

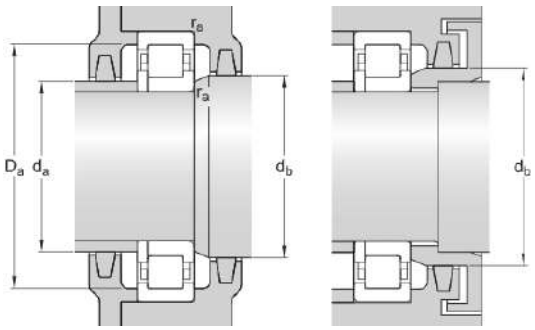
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 34.7 mm	Shoulder diameter of inner ring
D_1	≈ 43.3 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 29.9 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	27 kN
Fatigue load limit	P_u	3.35 kN

Reference speed		15 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.14 kg

NUP 206 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

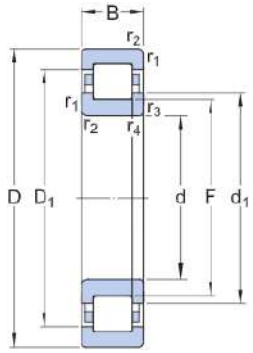
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	22 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

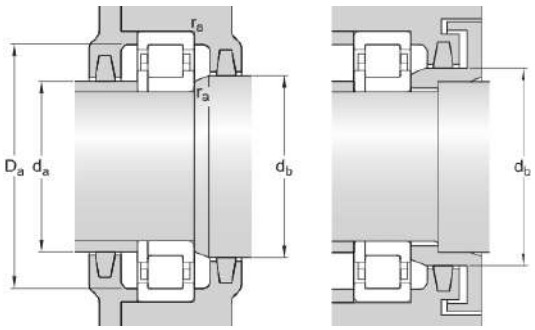
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
D_1	≈ 52.45 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		13 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.24 kg

NUP 206 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	16 mm

Performance

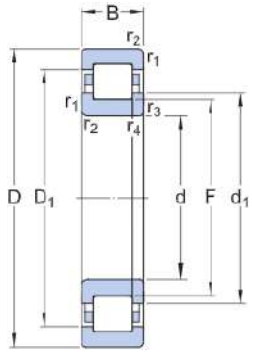
Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

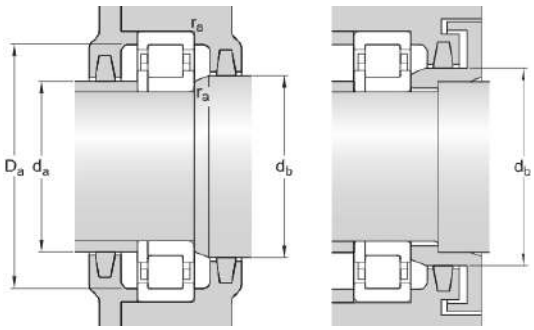
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
D_1	≈ 52.08 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.21 kg

NUP 207 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

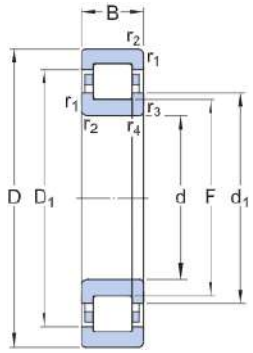
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

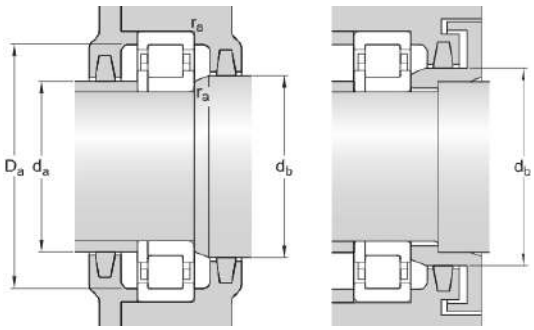
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.32 kg

NUP 207 ECM

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

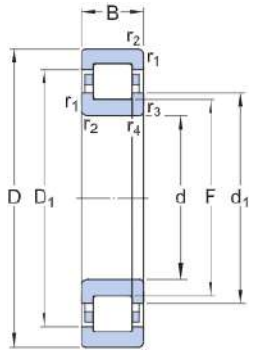
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

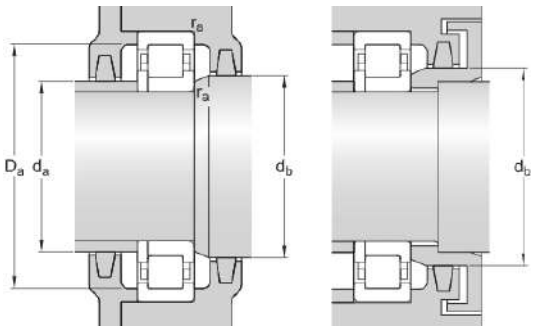
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.34 kg

NUP 207 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

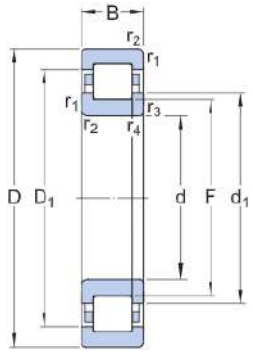
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	18 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

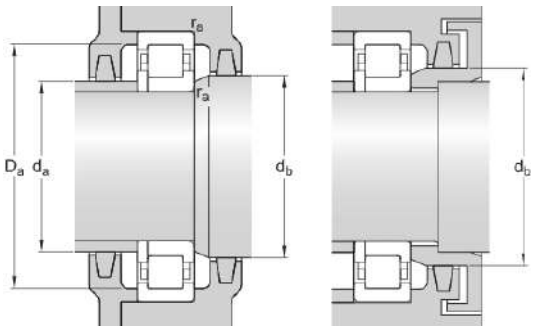
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.7 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.34 kg

NUP 207 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm

Performance

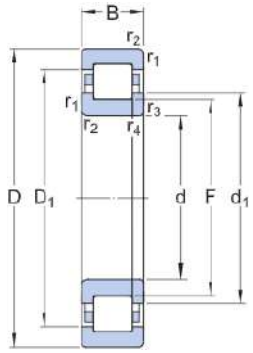
Basic dynamic load rating	56 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

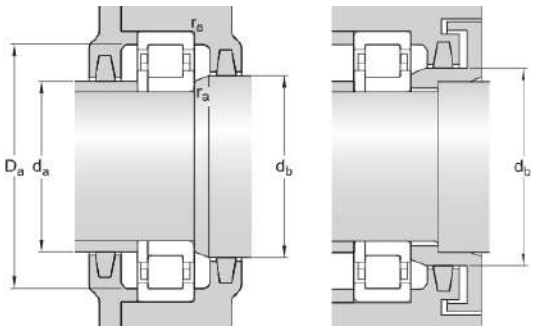
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	17 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.33 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 41.8 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	56 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.31 kg

NUP 208 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

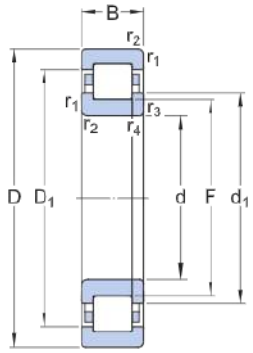
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

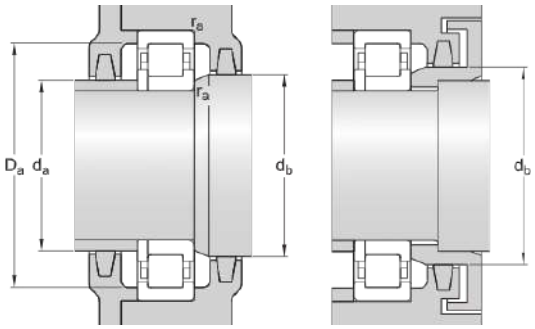
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.42 kg

NUP 208 ECM

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

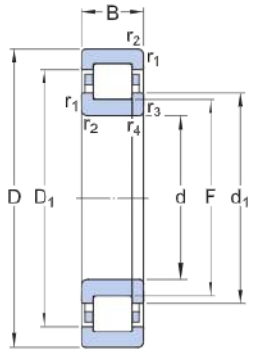
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

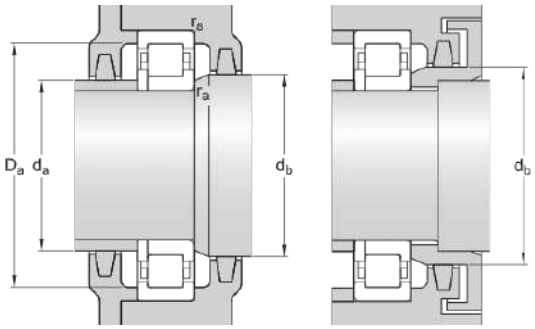
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.47 kg

NUP 208 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

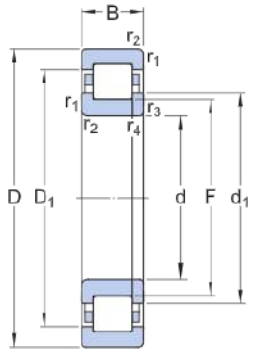
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	16 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

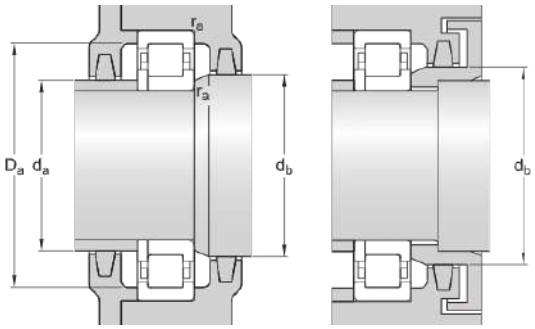
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.9 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.45 kg

NUP 208 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

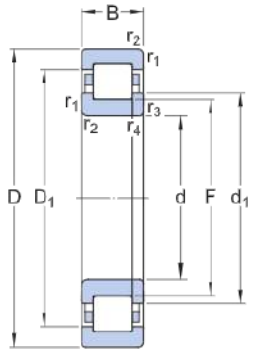
Basic dynamic load rating	62 kN
Basic static load rating	53 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

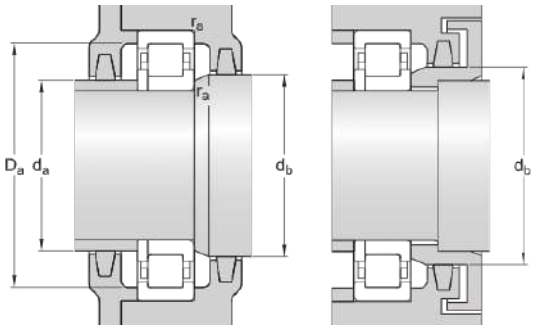
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	18 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.4 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	62 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	6.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.4 kg

NUP 209 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

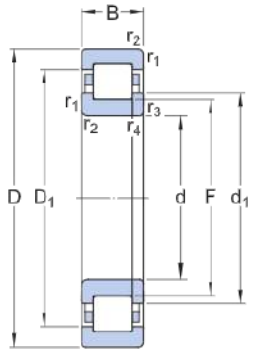
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

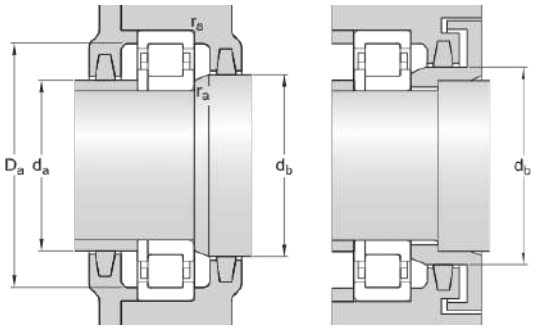
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.46 kg

NUP 209 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

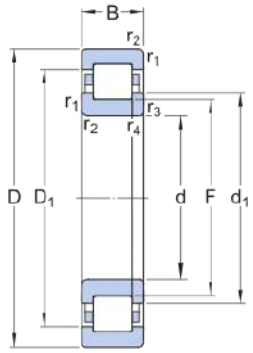
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

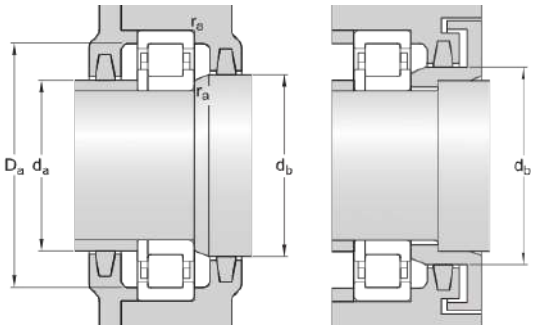
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.46 kg

NUP 209 ECM

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

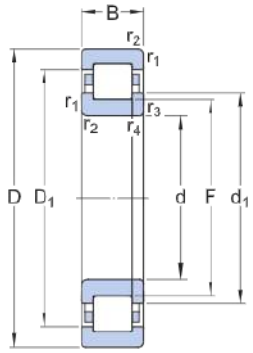
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

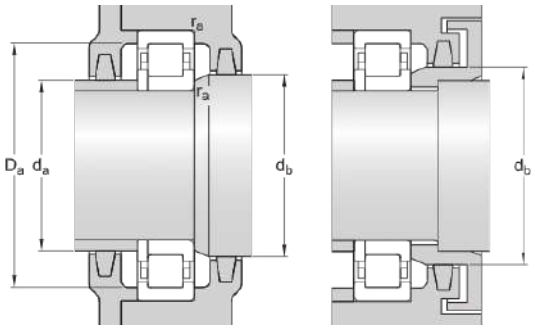
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.52 kg

NUP 209 ECM

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

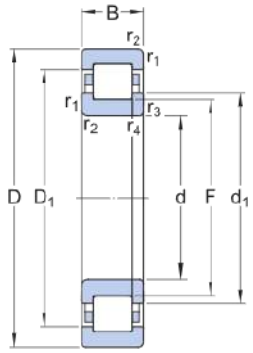
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

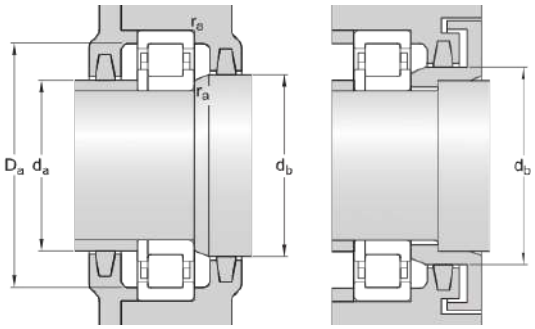
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.52 kg

NUP 209 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

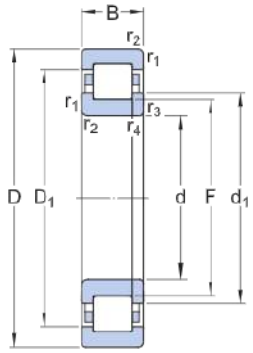
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	15 000 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

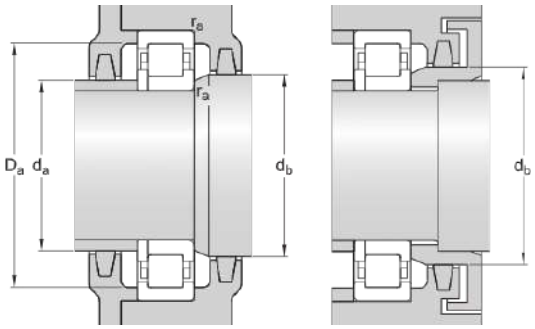
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.95 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass		0.52 kg

NUP 209 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

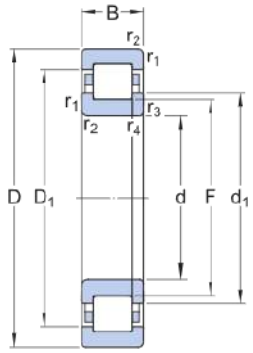
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	15 000 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

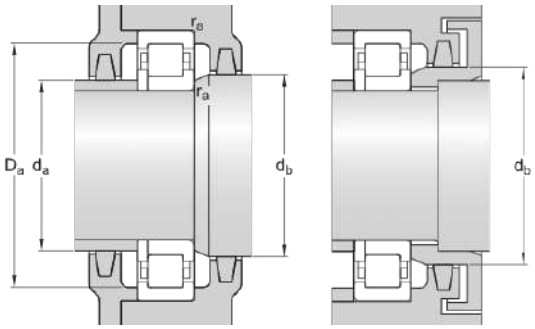
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.95 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.52 kg

NUP 209 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

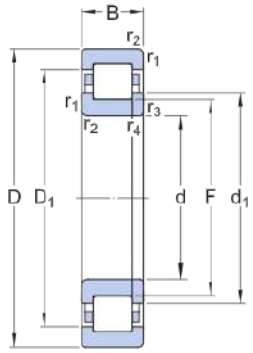
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

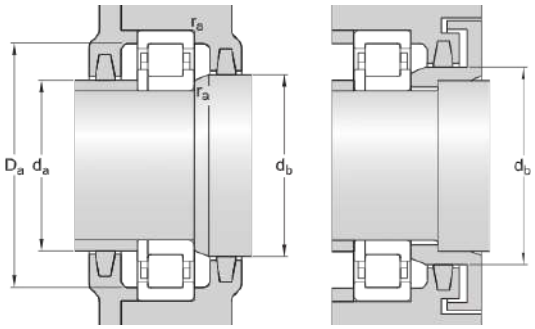
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.44 kg

NUP 209 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

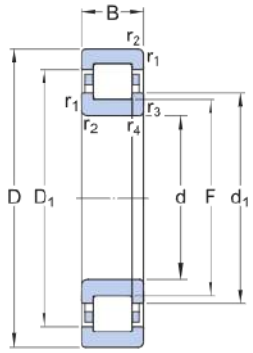
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

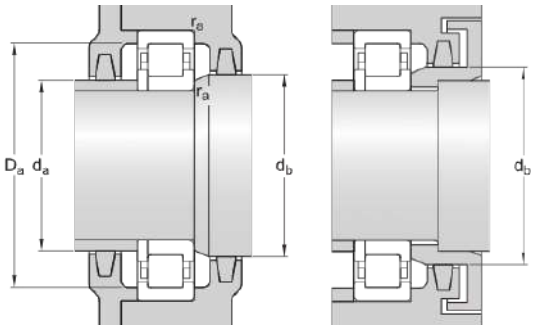
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.44 kg

NUP 209 ECPH

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	19 mm

Performance

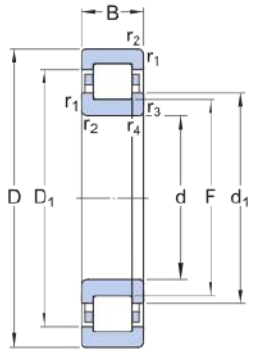
Basic dynamic load rating	69.5 kN
Basic static load rating	64 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

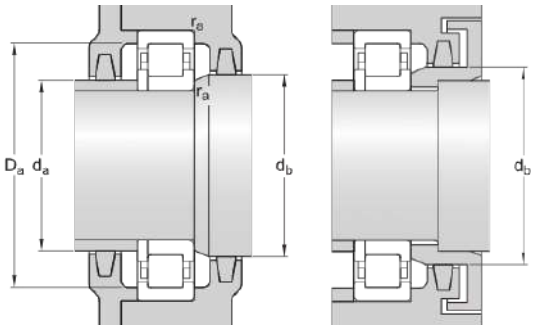
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	64 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.45 kg

NUP 210 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

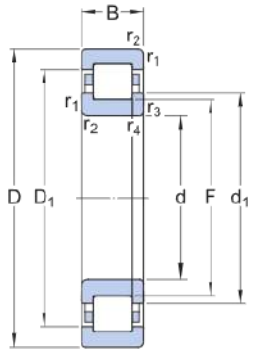
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

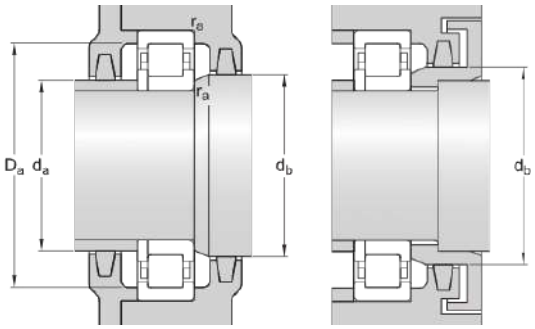
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.4 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.8 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.52 kg

NUP 210 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

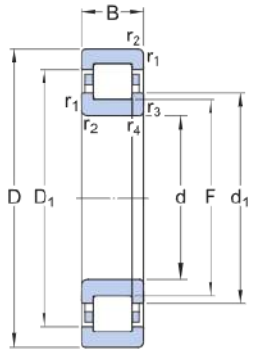
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

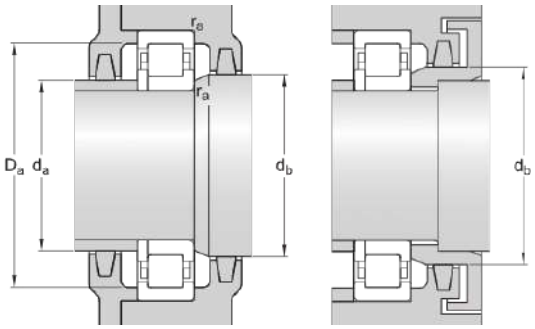
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.95 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.8 kN

Reference speed		8 500 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.52 kg

NUP 210 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	20 mm

Performance

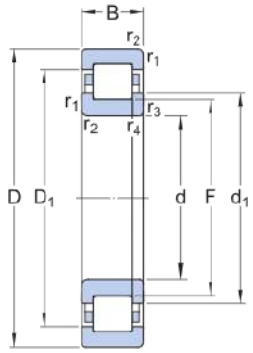
Basic dynamic load rating	73.5 kN
Basic static load rating	69.5 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

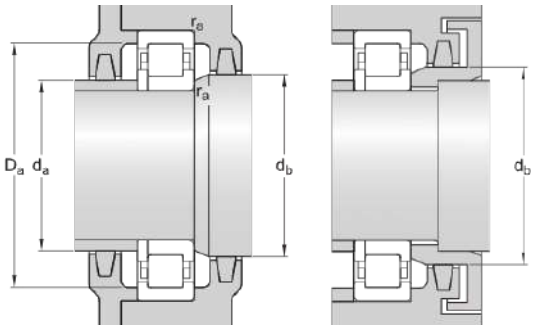
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.4 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	73.5 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	8.8 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass		0.5 kg

NUP 304 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width	15 mm

Performance

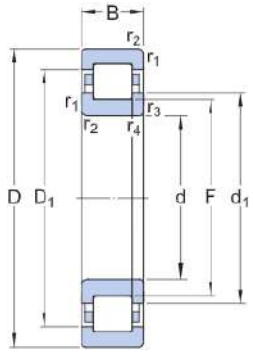
Basic dynamic load rating	35.5 kN
Basic static load rating	26 kN
Limiting speed	18 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

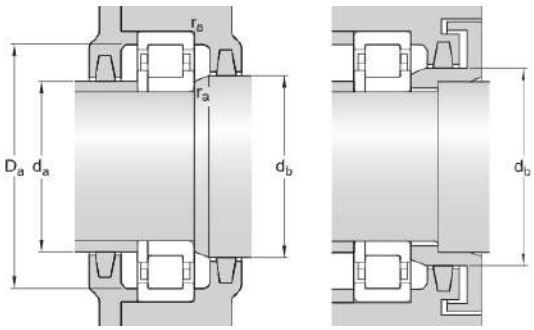
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d_1	≈ 31.2 mm	Shoulder diameter of inner ring
D_1	≈ 41.85 mm	Shoulder diameter of outer ring
F	27.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 26.1 mm	Diameter of spacer sleeve
d_b	min. 33 mm	Diameter of shaft abutment
D_a	max. 45.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	35.5 kN
Basic static load rating	C_0	26 kN
Fatigue load limit	P_u	3.25 kN

Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.16 kg

NUP 305 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

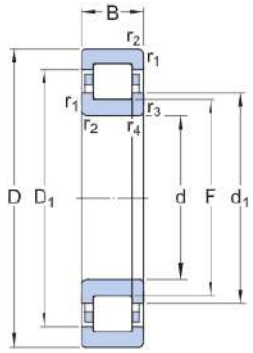
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

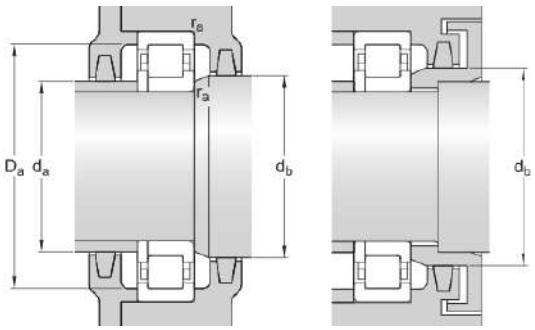
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.25 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.26 kg

NUP 305 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

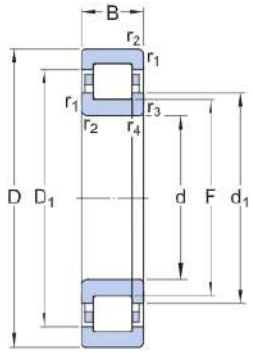
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	22 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

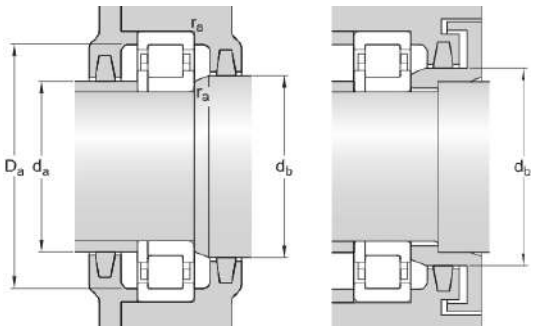
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.65 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		12 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.29 kg

NUP 305 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

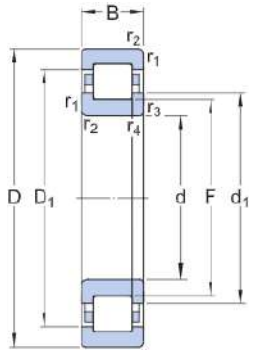
Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

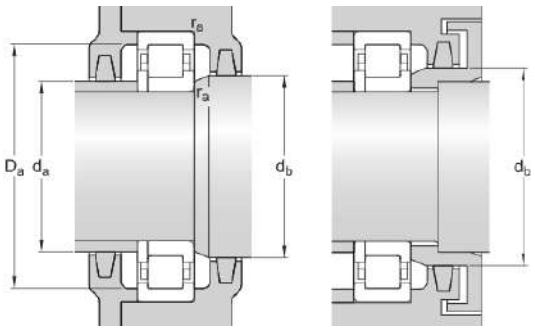
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.25 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	46.5 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.55 kN

Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.25 kg

NUP 306 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

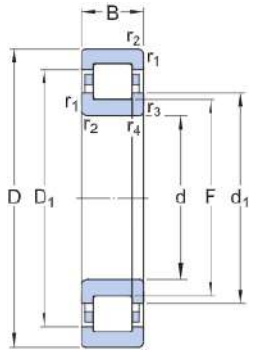
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

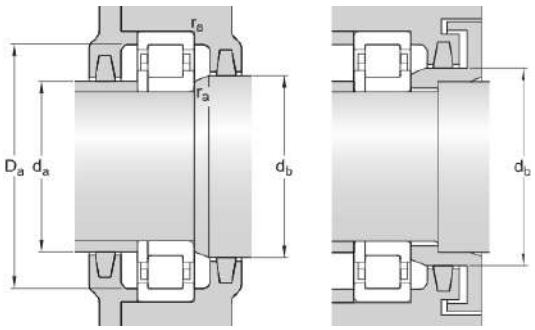
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.38 kg

NUP 306 ECM

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

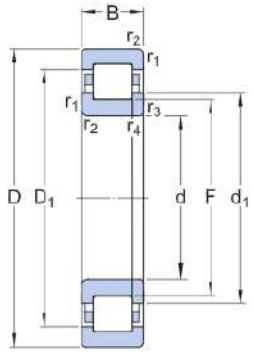
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

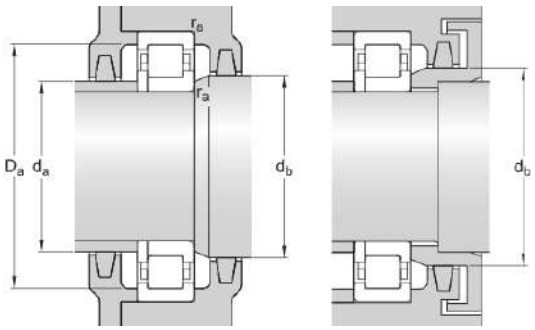
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.45 kg

NUP 306 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

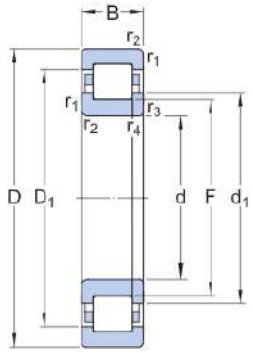
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	19 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

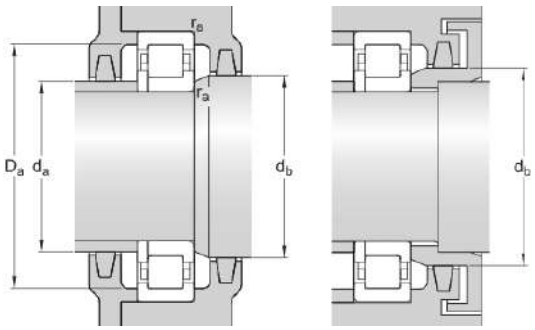
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.85 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

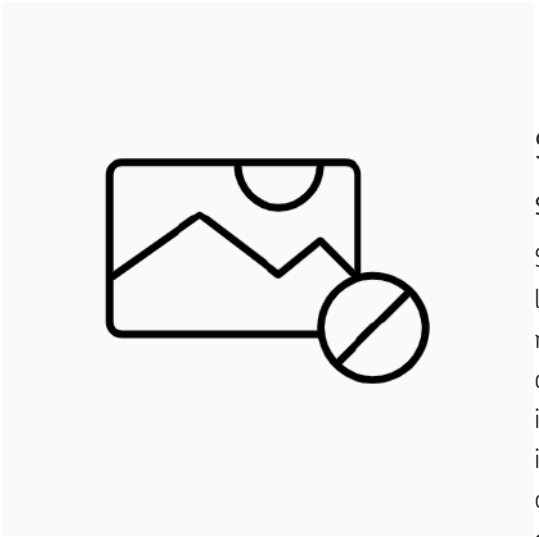
Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN

Reference speed		11 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.43 kg



NUP 306 ECNJ

Single row cylindrical roller bearing, NUP design, with snap ring groove

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An annular groove in the outer ring enables the bearings to retain a snap ring. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

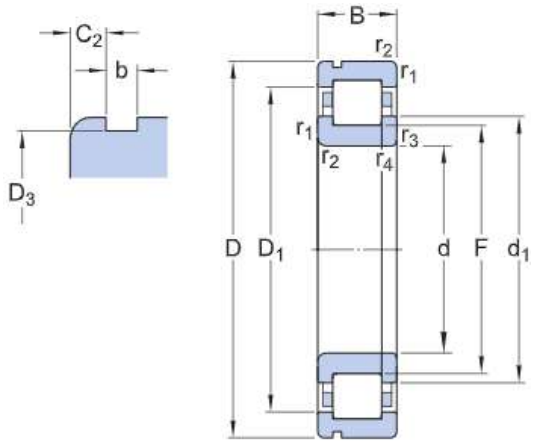
Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

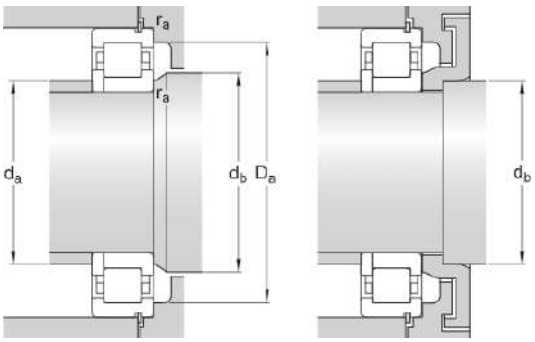
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
D_3	68.81 mm	Diameter of snap ring groove
F	40.5 mm	Raceway diameter of inner ring
C_2	3.28 mm	Distance from outer ring side face to snap ring groove
b	1.9 mm	Width of snap ring groove
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.39 kg

NUP 306 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	19 mm

Performance

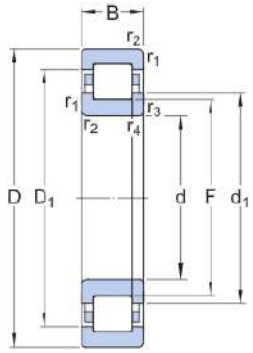
Basic dynamic load rating	58.5 kN
Basic static load rating	48 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

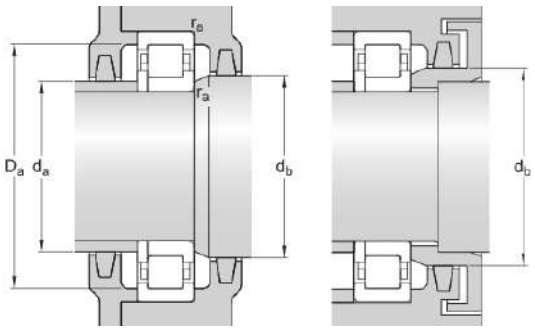
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	19 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.35 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C_0	48 kN
Fatigue load limit	P_u	6.2 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.38 kg

NUP 307 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

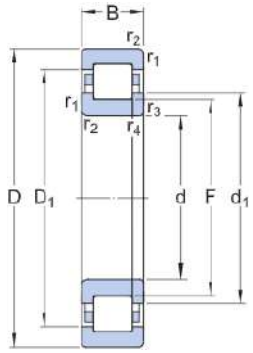
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

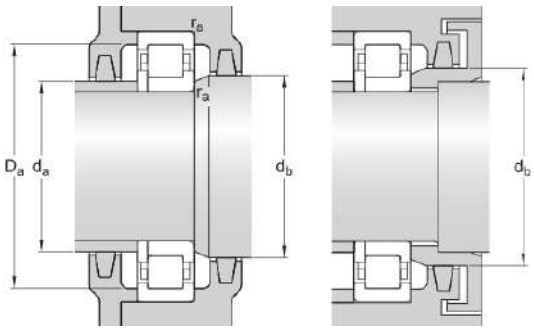
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.51 kg

NUP 307 ECM

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

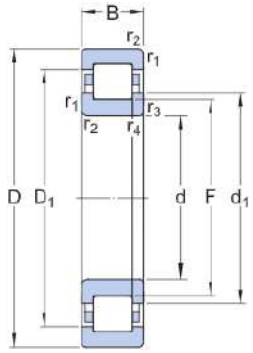
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

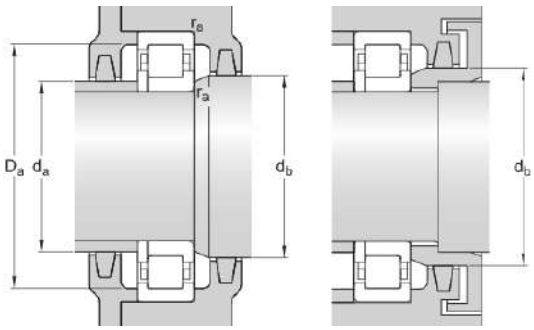
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.59 kg

NUP 307 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

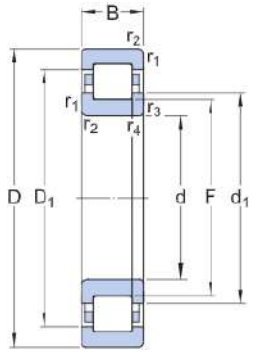
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	17 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

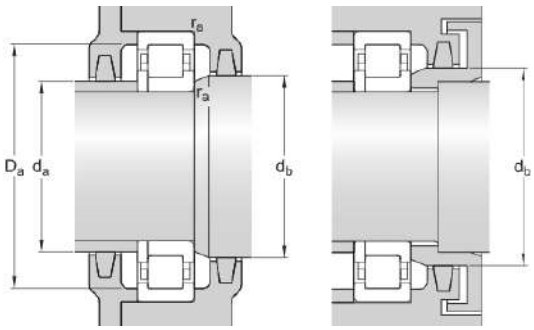
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 66.3 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		17 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.58 kg

NUP 307 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

Performance

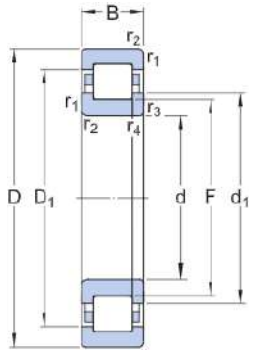
Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

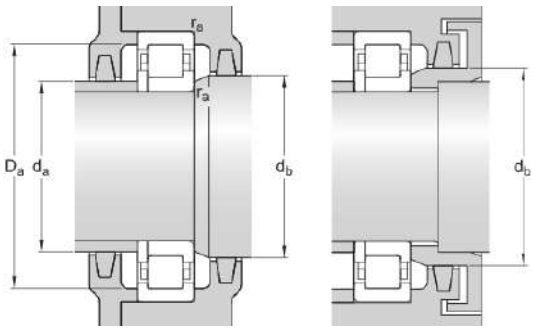
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 44 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	75 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.49 kg

NUP 308 ECM

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

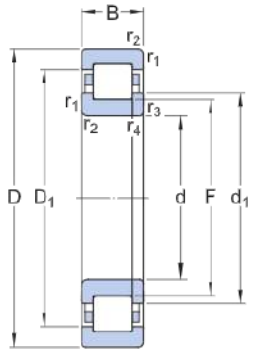
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

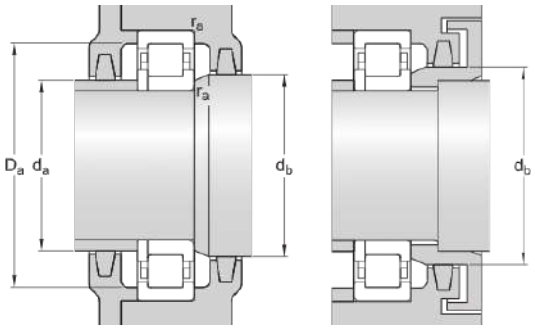
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.81 kg

NUP 308 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

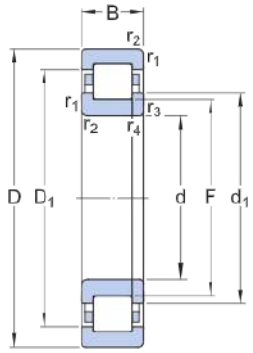
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	15 000 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

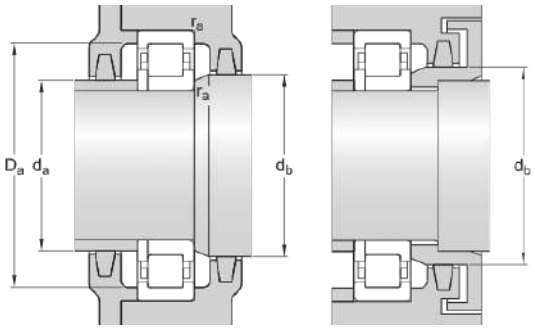
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.55 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.79 kg

NUP 308 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

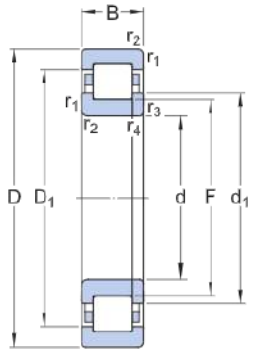
Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

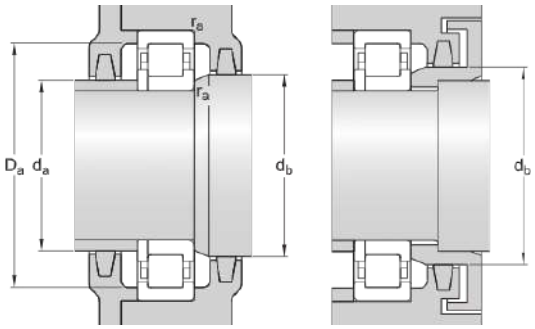
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	93 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	10.2 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.68 kg

NUP 309 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

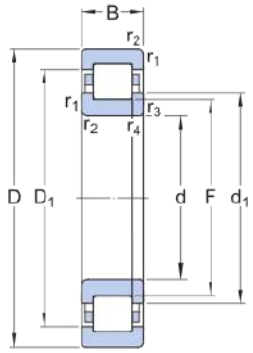
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	13 000 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

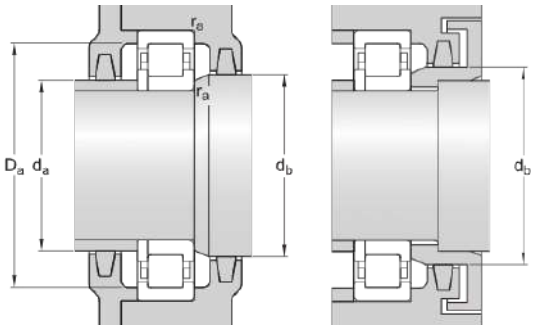
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.75 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

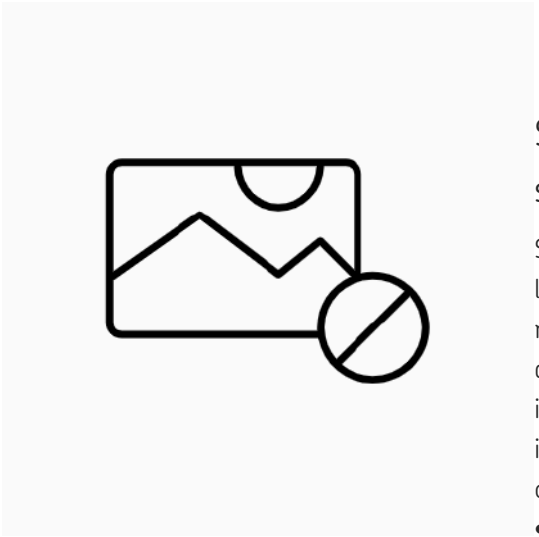
Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.04 kg



NUP 309 ECNP

Single row cylindrical roller bearing, NUP design, with snap ring groove

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An annular groove in the outer ring enables the bearings to retain a snap ring. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

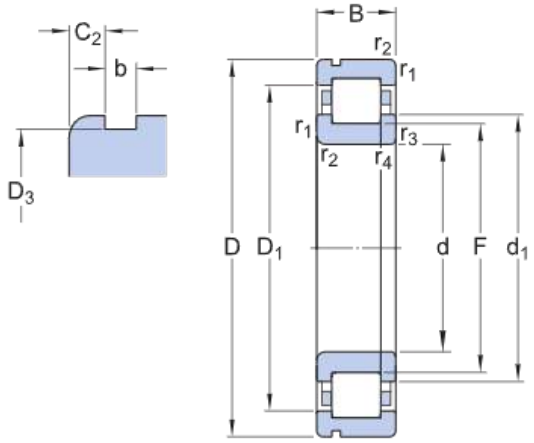
Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	Snap ring groove
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

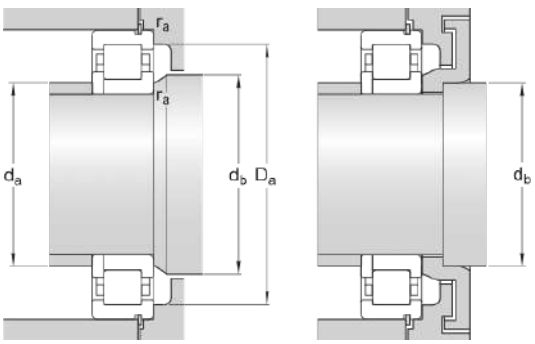
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
D_3	96.8 mm	Diameter of snap ring groove
F	58.5 mm	Raceway diameter of inner ring
C_2	3.28 mm	Distance from outer ring side face to snap ring groove
b	2.7 mm	Width of snap ring groove
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.9 kg

NUP 309 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

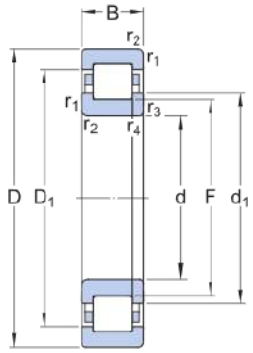
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

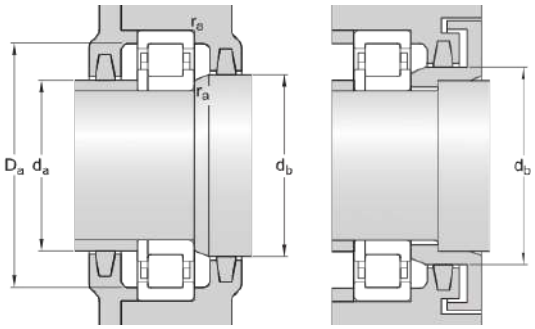
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.93 kg

NUP 310 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

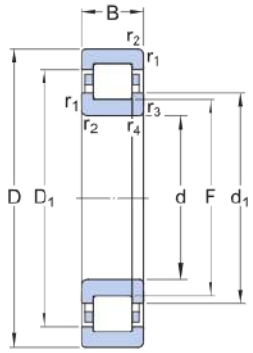
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

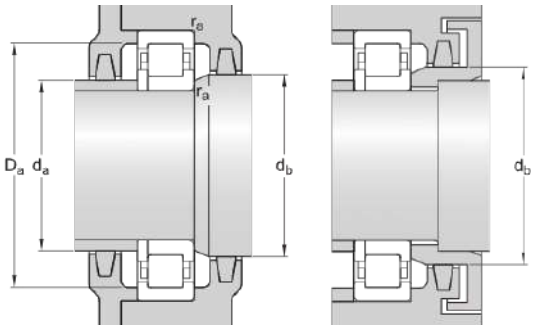
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 61 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass		1.2 kg

NUP 310 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

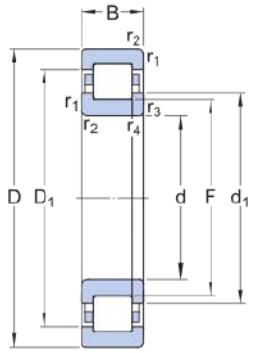
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

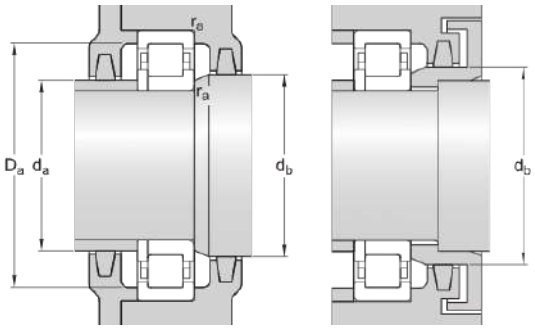
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 92.05 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN

Reference speed		6 700 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.38 kg

NUP 310 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

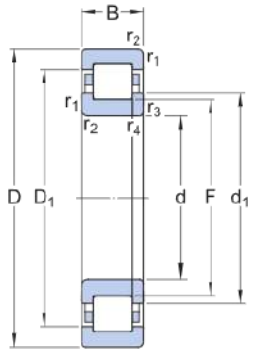
Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

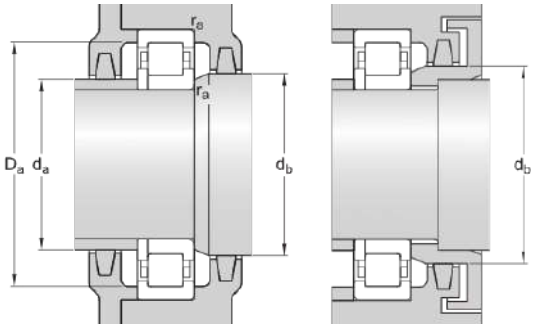
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	1.17 kg

NUP 2203 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width	16 mm

Performance

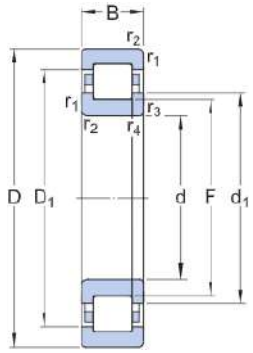
Basic dynamic load rating	27.5 kN
Basic static load rating	21.6 kN
Limiting speed	22 000 r/min
Reference speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

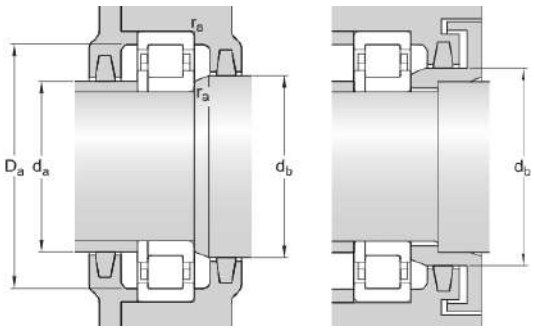
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
B	16 mm	Width
d_1	≈ 25 mm	Shoulder diameter of inner ring
D_1	≈ 32.35 mm	Shoulder diameter of outer ring
F	22.1 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 20.7 mm	Diameter of spacer sleeve
d_b	min. 27 mm	Diameter of shaft abutment
D_a	max. 36 mm	Diameter of housing abutment
r_a	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	27.5 kN
Basic static load rating	C_0	21.6 kN
Fatigue load limit	P_u	2.65 kN

Reference speed		20 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.097 kg

NUP 2205 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	18 mm

Performance

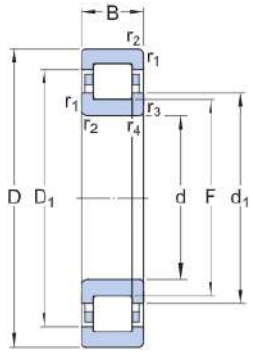
Basic dynamic load rating	39 kN
Basic static load rating	34 kN
Limiting speed	16 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

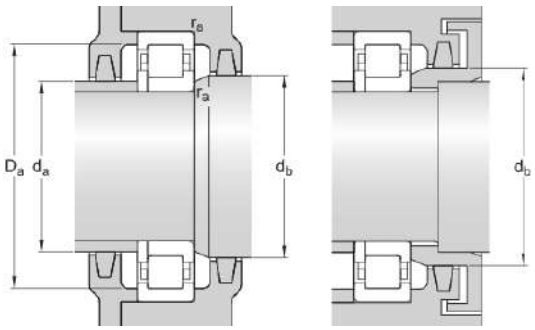
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
d_1	≈ 34.7 mm	Shoulder diameter of inner ring
D_1	≈ 43.3 mm	Shoulder diameter of outer ring
F	31.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 29.9 mm	Diameter of spacer sleeve
d_b	min. 36 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	39 kN
Basic static load rating	C_0	34 kN
Fatigue load limit	P_u	4.25 kN

Reference speed		15 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.17 kg

NUP 2206 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	20 mm

Performance

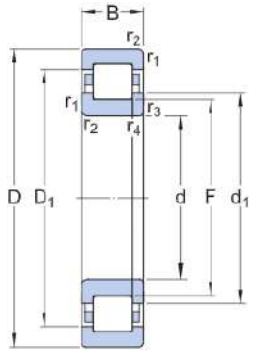
Basic dynamic load rating	55 kN
Basic static load rating	49 kN
Limiting speed	14 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

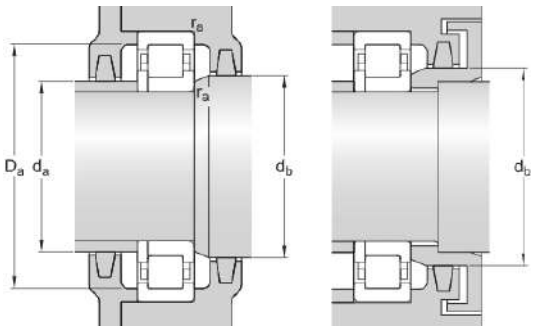
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
d_1	≈ 41.2 mm	Shoulder diameter of inner ring
D_1	≈ 51.95 mm	Shoulder diameter of outer ring
F	37.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 35.3 mm	Diameter of spacer sleeve
d_b	min. 43 mm	Diameter of shaft abutment
D_a	max. 55.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	49 kN
Fatigue load limit	P_u	6.1 kN

Reference speed		13 000 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.27 kg

NUP 2207 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	23 mm

Performance

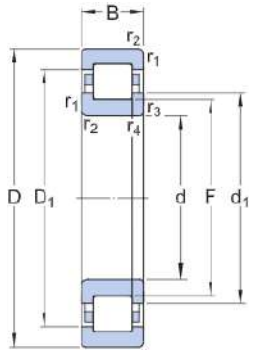
Basic dynamic load rating	69.5 kN
Basic static load rating	63 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

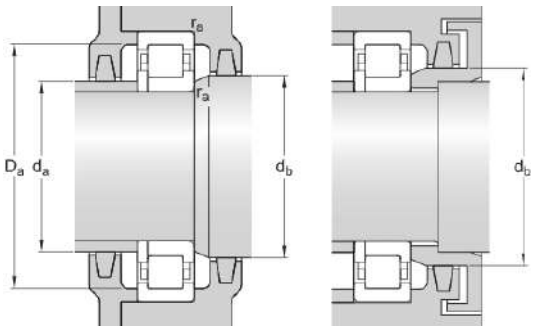
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
d_1	≈ 48.1 mm	Shoulder diameter of inner ring
D_1	≈ 60.2 mm	Shoulder diameter of outer ring
F	44 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 42 mm	Diameter of spacer sleeve
d_b	min. 50 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	69.5 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	8.15 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.42 kg

NUP 2208 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

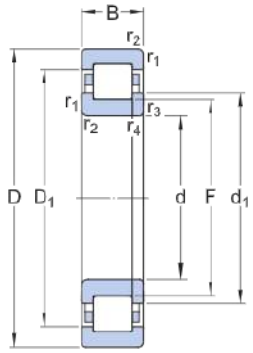
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

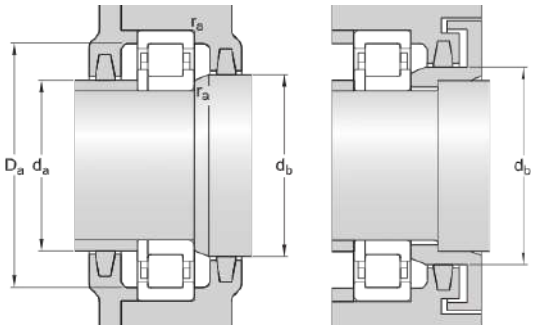
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.53 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.52 kg

NUP 2208 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	23 mm

Performance

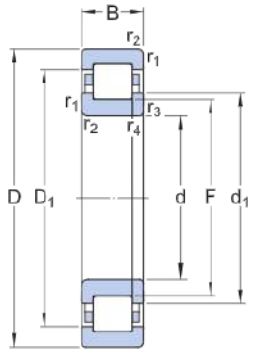
Basic dynamic load rating	81.5 kN
Basic static load rating	75 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

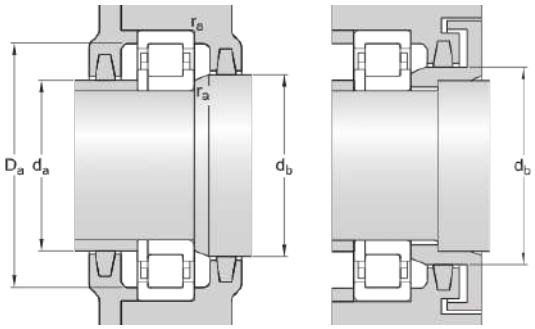
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
d_1	≈ 54 mm	Shoulder diameter of inner ring
D_1	≈ 67.53 mm	Shoulder diameter of outer ring
F	49.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 47 mm	Diameter of spacer sleeve
d_b	min. 56 mm	Diameter of shaft abutment
D_a	max. 72.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	81.5 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		0.51 kg

NUP 2209 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm

Performance

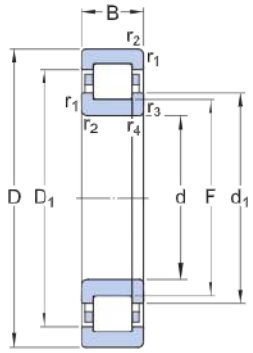
Basic dynamic load rating	85 kN
Basic static load rating	81.5 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

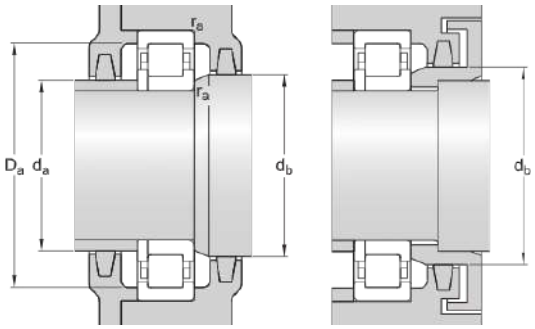
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	10.6 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.55 kg

NUP 2209 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width	23 mm

Performance

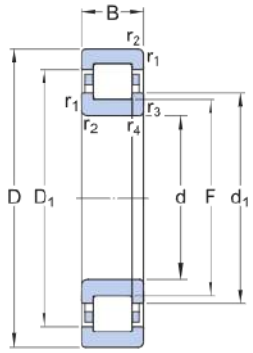
Basic dynamic load rating	85 kN
Basic static load rating	81.5 kN
Limiting speed	9 500 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

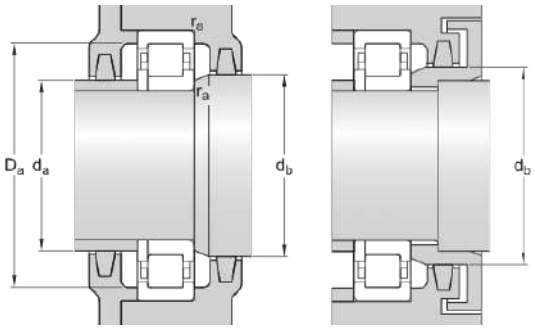
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d_1	≈ 59 mm	Shoulder diameter of inner ring
D_1	≈ 72.47 mm	Shoulder diameter of outer ring
F	54.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 52 mm	Diameter of spacer sleeve
d_b	min. 61 mm	Diameter of shaft abutment
D_a	max. 77.6 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	85 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	10.6 kN

Reference speed		9 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.55 kg

NUP 2210 ECJ

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

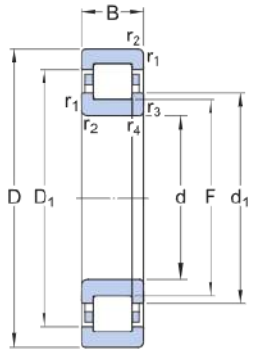
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

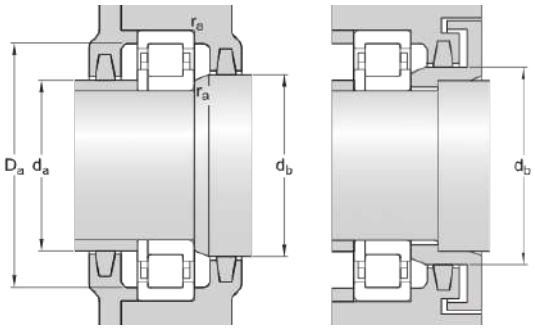
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	11.4 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		0.6 kg

NUP 2210 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

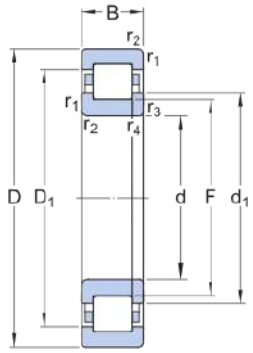
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

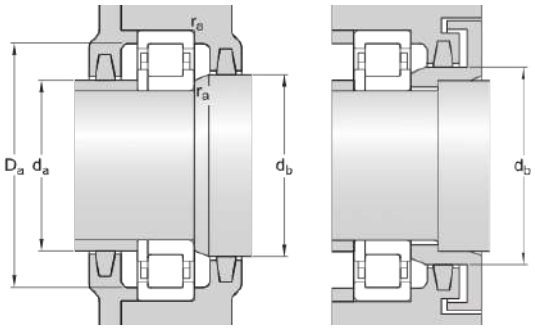
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.95 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	11.4 kN

Reference speed		8 500 r/min
Limiting speed		14 000 r/min
Minimum load factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		0.68 kg

NUP 2210 ECNP

Single row cylindrical roller bearing, NUP design, with snap ring groove

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An annular groove in the outer ring enables the bearings to retain a snap ring. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

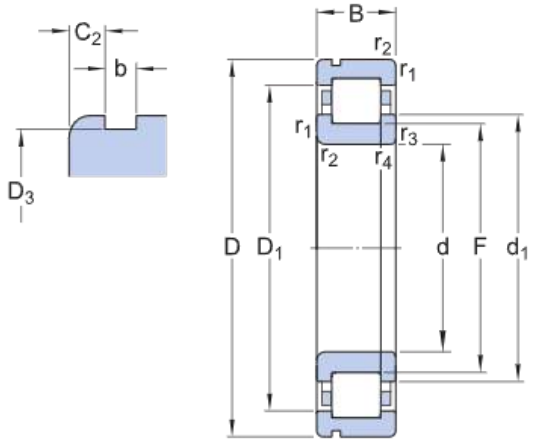
Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	Snap ring groove
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without

Lubricant	None
Relubrication feature	Without

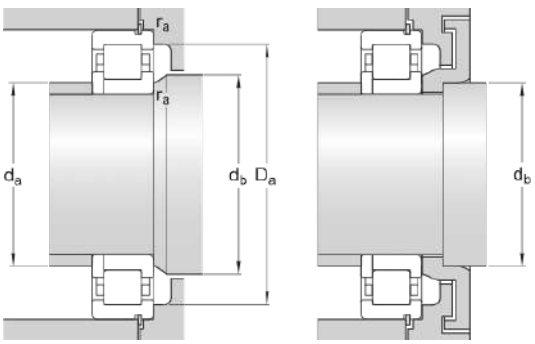
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
D_3	86.79 mm	Diameter of snap ring groove
F	59.5 mm	Raceway diameter of inner ring
C_2	3.28 mm	Distance from outer ring side face to snap ring groove
b	2.7 mm	Width of snap ring groove
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	11.4 kN
Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.58 kg

NUP 2210 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	23 mm

Performance

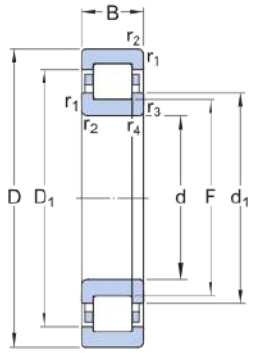
Basic dynamic load rating	90 kN
Basic static load rating	88 kN
Reference speed	8 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

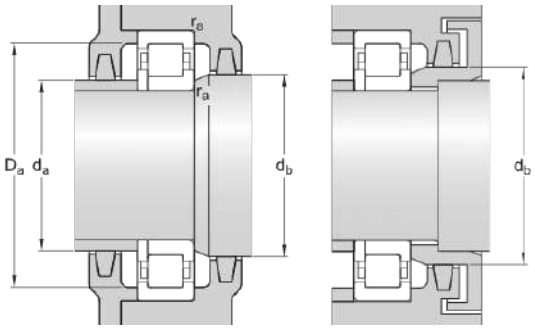
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d_1	≈ 64 mm	Shoulder diameter of inner ring
D_1	≈ 77.58 mm	Shoulder diameter of outer ring
F	59.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 57 mm	Diameter of spacer sleeve
d_b	min. 66 mm	Diameter of shaft abutment
D_a	max. 82.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	90 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	11.4 kN

Reference speed		8 500 r/min
Limiting speed		9 000 r/min
Minimum load factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.59 kg

NUP 2304 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width	21 mm

Performance

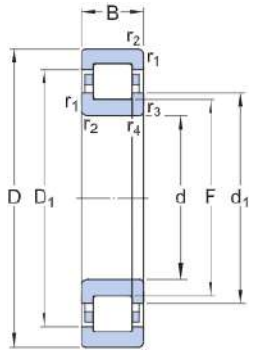
Basic dynamic load rating	47.5 kN
Basic static load rating	38 kN
Limiting speed	18 000 r/min
Reference speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

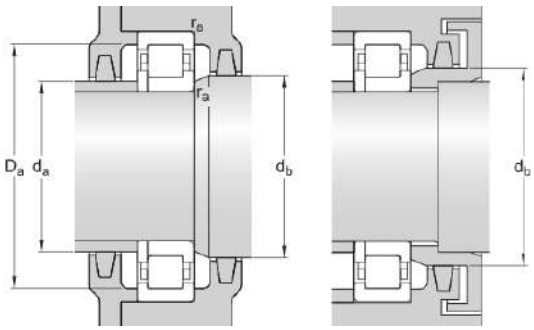
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	21 mm	Width
d_1	≈ 31.2 mm	Shoulder diameter of inner ring
D_1	≈ 41.85 mm	Shoulder diameter of outer ring
F	27.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 26.1 mm	Diameter of spacer sleeve
d_b	min. 33 mm	Diameter of shaft abutment
D_a	max. 45.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	47.5 kN
Basic static load rating	C_0	38 kN
Fatigue load limit	P_u	4.8 kN

Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.22 kg

NUP 2305 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	24 mm

Performance

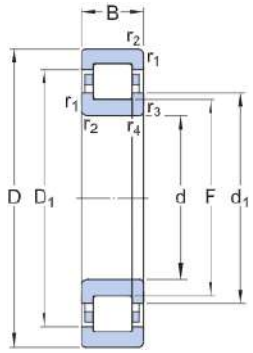
Basic dynamic load rating	64 kN
Basic static load rating	55 kN
Limiting speed	22 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

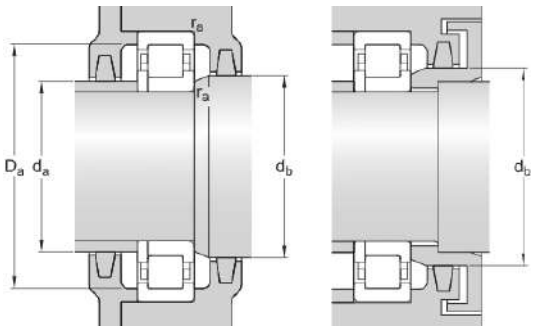
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.65 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	64 kN
Basic static load rating	C_0	55 kN
Fatigue load limit	P_u	6.95 kN

Reference speed		12 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.4 kg

NUP 2305 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	24 mm

Performance

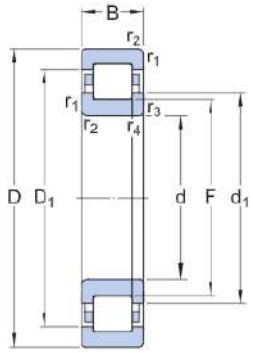
Basic dynamic load rating	64 kN
Basic static load rating	55 kN
Limiting speed	15 000 r/min
Reference speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

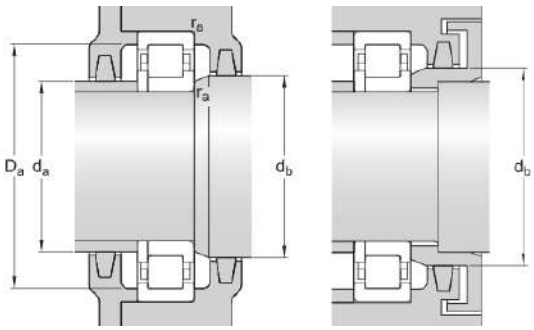
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
d_1	≈ 38.1 mm	Shoulder diameter of inner ring
D_1	≈ 50.15 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 31 mm	Diameter of spacer sleeve
d_b	min. 40 mm	Diameter of shaft abutment
D_a	max. 54.9 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	64 kN
Basic static load rating	C_0	55 kN
Fatigue load limit	P_u	6.95 kN

Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.36 kg

NUP 2306 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm

Performance

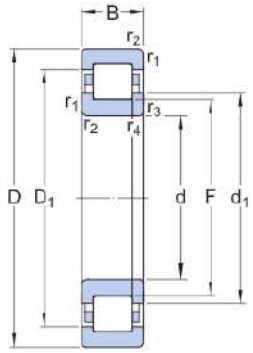
Basic dynamic load rating	83 kN
Basic static load rating	75 kN
Limiting speed	19 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

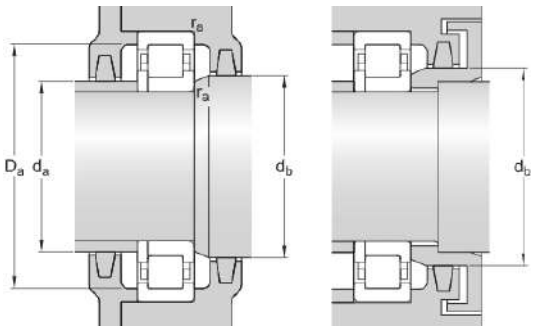
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	27 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.85 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	83 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		11 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.61 kg

NUP 2306 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm

Performance

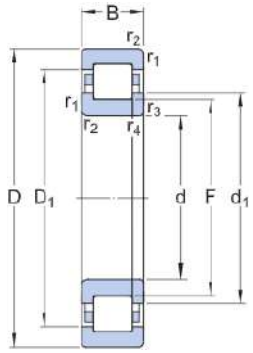
Basic dynamic load rating	83 kN
Basic static load rating	75 kN
Limiting speed	12 000 r/min
Reference speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

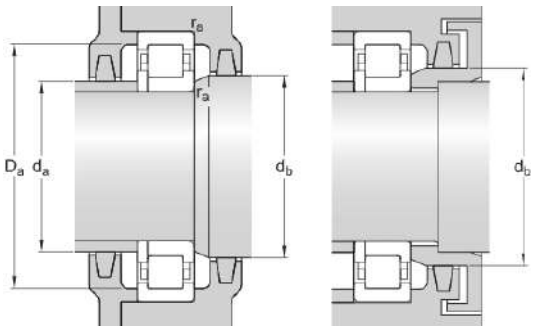
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	27 mm	Width
d_1	≈ 45 mm	Shoulder diameter of inner ring
D_1	≈ 58.48 mm	Shoulder diameter of outer ring
F	40.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 37 mm	Diameter of spacer sleeve
d_b	min. 47 mm	Diameter of shaft abutment
D_a	max. 65.1 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	83 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	9.65 kN

Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.54 kg

NUP 2307 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	31 mm

Performance

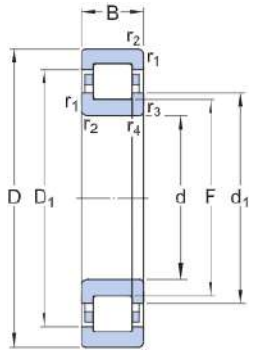
Basic dynamic load rating	106 kN
Basic static load rating	98 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

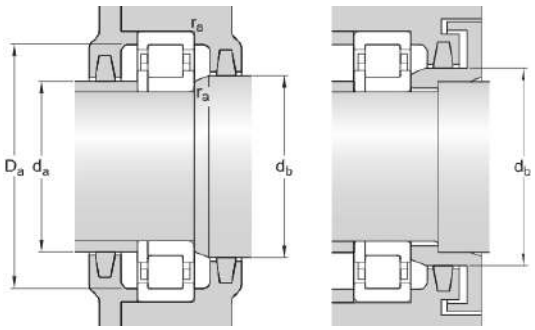
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	31 mm	Width
d_1	≈ 51 mm	Shoulder diameter of inner ring
D_1	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 43 mm	Diameter of spacer sleeve
d_b	min. 53 mm	Diameter of shaft abutment
D_a	max. 72.2 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	98 kN
Fatigue load limit	P_u	12.7 kN

Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.76 kg

NUP 2308 ECM

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

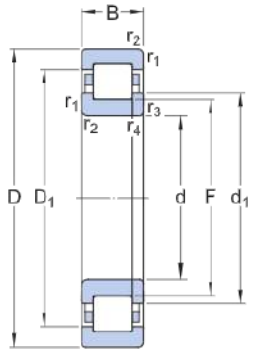
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

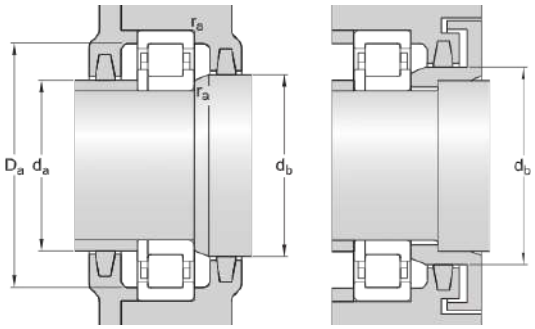
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_u	15.3 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.15 kg

NUP 2308 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

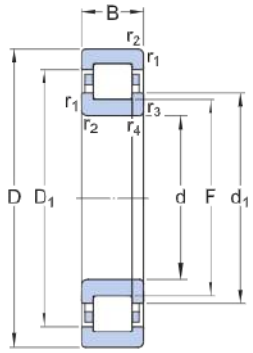
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	15 000 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

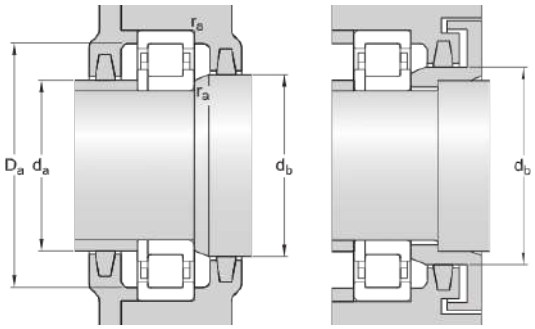
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.55 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_u	15.3 kN

Reference speed		8 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		1.1 kg

NUP 2308 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

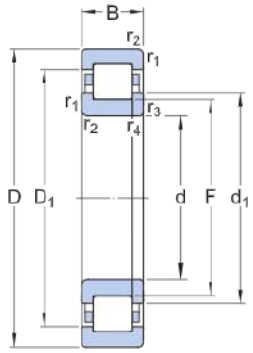
Basic dynamic load rating	129 kN
Basic static load rating	120 kN
Limiting speed	9 500 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

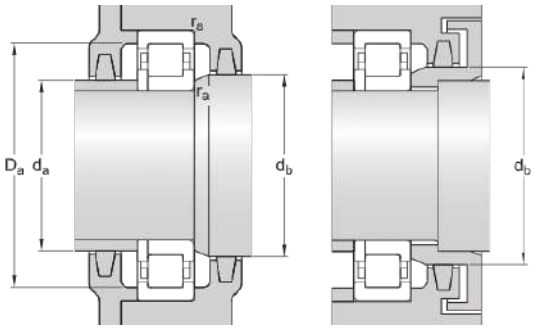
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
D_1	≈ 75.18 mm	Shoulder diameter of outer ring
F	52 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 48 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 81.8 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_u	15.3 kN

Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	0.98 kg

NUP 2309 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	36 mm

Performance

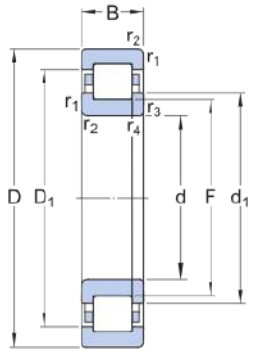
Basic dynamic load rating	160 kN
Basic static load rating	153 kN
Limiting speed	13 000 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Machined metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

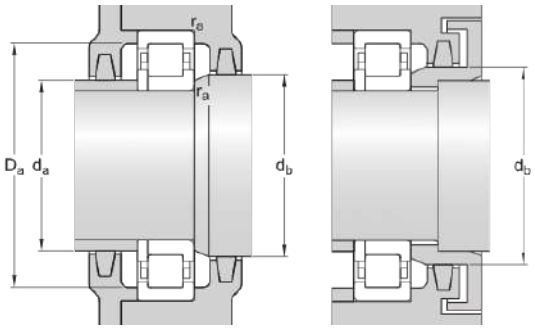
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.75 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	160 kN
Basic static load rating	C_0	153 kN
Fatigue load limit	P_u	20 kN

Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		1.55 kg

NUP 2309 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	36 mm

Performance

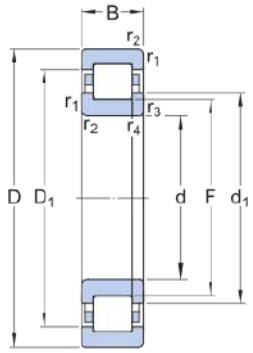
Basic dynamic load rating	160 kN
Basic static load rating	153 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	None
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Inner ring loose flange
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

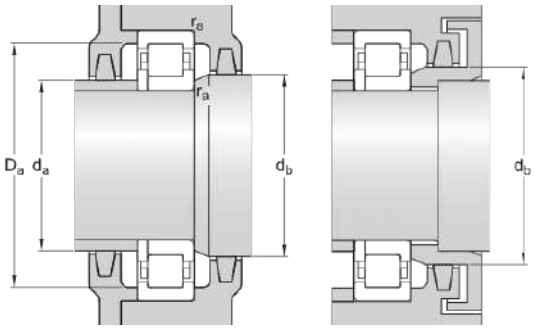
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
d_1	≈ 64.4 mm	Shoulder diameter of inner ring
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	160 kN
Basic static load rating	C_0	153 kN
Fatigue load limit	P_u	20 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.36 kg

NUP 2310 ECML

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	40 mm

Performance

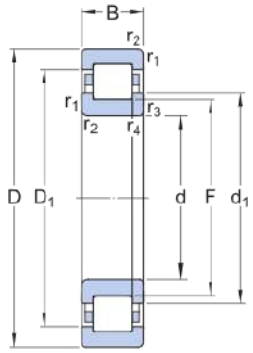
Basic dynamic load rating	186 kN
Basic static load rating	186 kN
Reference speed	6 700 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

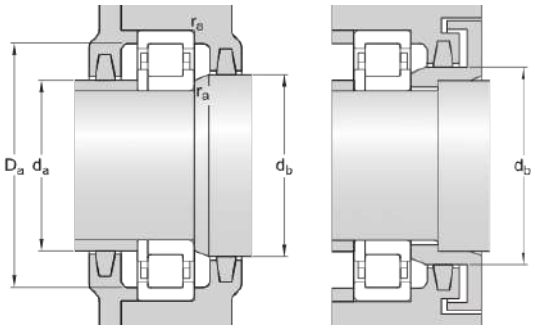
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 92.05 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	186 kN
Fatigue load limit	P_u	24.5 kN

Reference speed		6 700 r/min
Limiting speed		12 000 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	2 kg

NUP 2310 ECP

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	40 mm

Performance

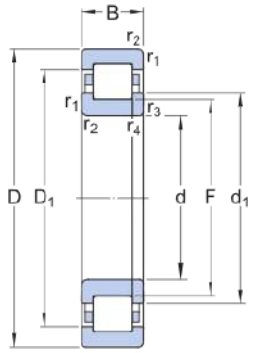
Basic dynamic load rating	186 kN
Basic static load rating	186 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

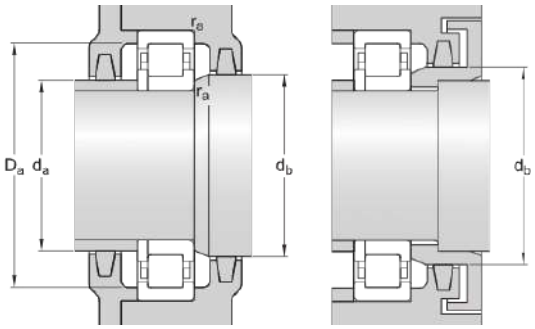
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	40 mm	Width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
D_1	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_b	min. 73 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	186 kN
Fatigue load limit	P_u	24.5 kN

Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass	1.76 kg

239509 FA

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	660 mm
Outside diameter	820 mm
Width	440 mm

Performance

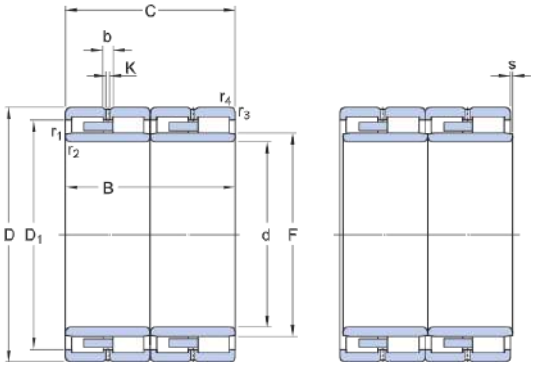
Basic dynamic load rating	8 090 kN
Basic static load rating	22 800 kN
Limiting speed	700 r/min
Reference speed	480 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.7/W33W
Bore type	Cylindrical



Dimensions

d	660 mm	Bore diameter
D	820 mm	Outside diameter
B	440 mm	Total bearing width over inner ring(s)
C	440 mm	Total bearing width over outer ring(s)
D_1	≈ 766 mm	Outer ring shoulder diameter
F	702 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 7.5 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	8 090 kN
Basic static load rating	C_0	22 800 kN
Fatigue load limit	P_u	1 760 kN
Calculation factor	k_r	410

Mass

Mass bearing	514 kg

312844/VJ202

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	529.91 mm
Outside diameter	870 mm
Width	670 mm

Performance

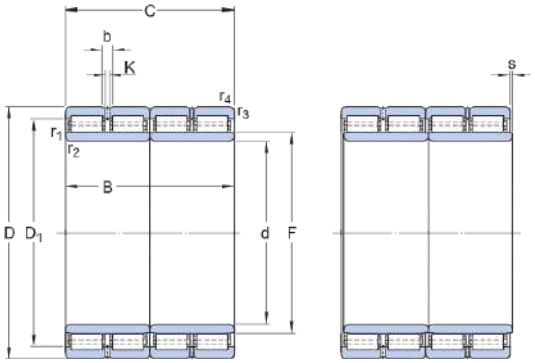
Basic dynamic load rating	16 800 kN
Basic static load rating	33 500 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.9/W33WI
Bore type	Cylindrical



Dimensions

d	529.91 mm	Bore diameter
D	870 mm	Outside diameter
B	670 mm	Total bearing width over inner ring(s)
C	670 mm	Total bearing width over outer ring(s)
D_1	≈ 751 mm	Outer ring shoulder diameter
F	615 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 7.5 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	16 800 kN
Basic static load rating	C_0	33 500 kN
Fatigue load limit	P_u	2 450 kN
Calculation factor	k_r	680

Mass

Mass bearing	1 660 kg

312979 D

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	760 mm
Outside diameter	1 080 mm
Width	790 mm

Performance

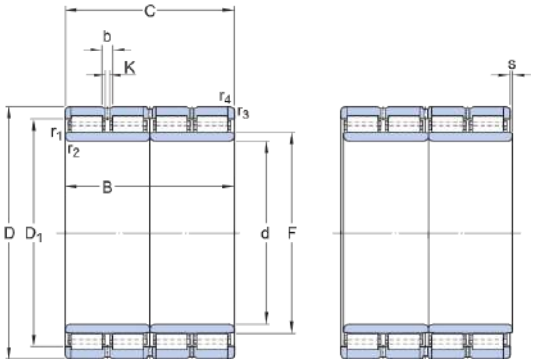
Basic dynamic load rating	23 800 kN
Basic static load rating	65 500 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	760 mm	Bore diameter
D	1 080 mm	Outside diameter
B	790 mm	Total bearing width over inner ring(s)
C	790 mm	Total bearing width over outer ring(s)
D_1	≈ 974 mm	Outer ring shoulder diameter
F	846 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 7.5 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	23 800 kN
Basic static load rating	C_0	65 500 kN
Fatigue load limit	P_u	4 400 kN
Calculation factor	k_r	760

Mass

Mass bearing	2 440 kg

313189 A

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	559.84 mm
Outside diameter	920 mm
Width	710 mm

Performance

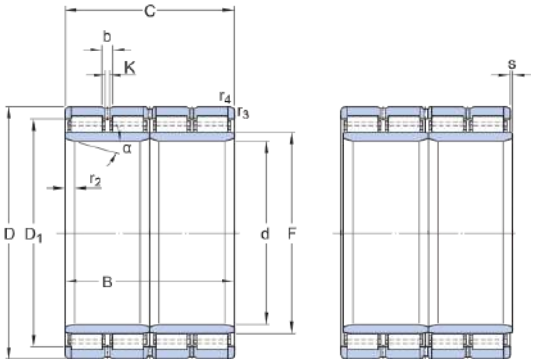
Basic dynamic load rating	20 100 kN
Basic static load rating	45 500 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	559.84 mm	Bore diameter
D	920 mm	Outside diameter
B	710 mm	Total bearing width over inner ring(s)
C	710 mm	Total bearing width over outer ring(s)
D_1	≈ 804.7 mm	Outer ring shoulder diameter
F	652.5 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 20 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	20 100 kN
Basic static load rating	C_0	45 500 kN
Fatigue load limit	P_u	3 250 kN
Calculation factor	k_r	830

Mass

Mass bearing	2 000 kg

313513

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	420 mm
Outside diameter	600 mm
Width	440 mm

Performance

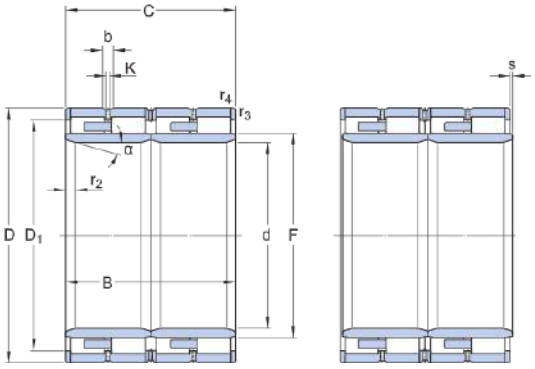
Basic dynamic load rating	7 210 kN
Basic static load rating	17 600 kN
Limiting speed	1 100 r/min
Reference speed	750 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.8/W33WI
Bore type	Cylindrical



Dimensions

d	420 mm	Bore diameter
D	600 mm	Outside diameter
B	440 mm	Total bearing width over inner ring(s)
C	440 mm	Total bearing width over outer ring(s)
D_1	≈ 539.3 mm	Bore diameter loose flange ring
F	470 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 8 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	7 210 kN
Basic static load rating	C_0	17 600 kN
Fatigue load limit	P_u	1 460 kN
Calculation factor	k_r	660

Mass

Mass bearing	400 kg

313535 D

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	536.176 mm
Outside diameter	762.03 mm
Width	558.8 mm

Performance

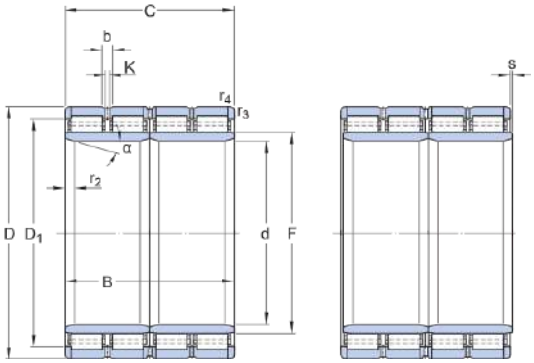
Basic dynamic load rating	11 400 kN
Basic static load rating	29 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C2
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33GWI
Bore type	Cylindrical with helical groove



Dimensions

d	536.176 mm	Bore diameter
D	762.03 mm	Outside diameter
B	558.8 mm	Total bearing width over inner ring(s)
C	558.8 mm	Total bearing width over outer ring(s)
D_1	≈ 690.7 mm	Outer ring shoulder diameter
F	598 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 16 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	11 400 kN
Basic static load rating	C_0	29 000 kN
Fatigue load limit	P_u	2 160 kN
Calculation factor	k_r	680

Mass

Mass bearing	840 kg

313555 B/VJ202

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	420 mm
Outside diameter	580 mm
Width	320 mm

Performance

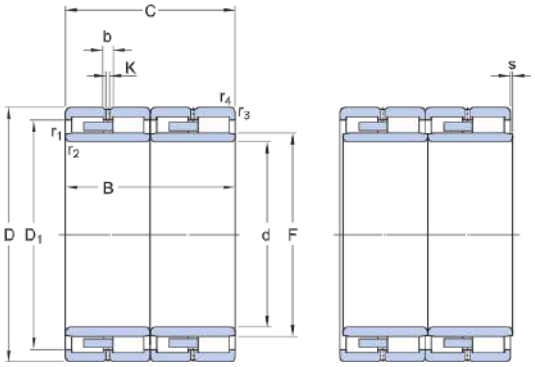
Basic dynamic load rating	4 680 kN
Basic static load rating	10 800 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.7/W33
Bore type	Cylindrical



Dimensions

d	420 mm	Bore diameter
D	580 mm	Outside diameter
B	320 mm	Total bearing width over inner ring(s)
C	320 mm	Total bearing width over outer ring(s)
D_1	≈ 530.2 mm	Outer ring shoulder diameter
F	463 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 4 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	4 680 kN
Basic static load rating	C_0	10 800 kN
Fatigue load limit	P_u	950 kN
Calculation factor	k_r	430

Mass

Mass bearing	250 kg

313685 B

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	759 mm
Outside diameter	1 210 mm
Width	740 mm

Performance

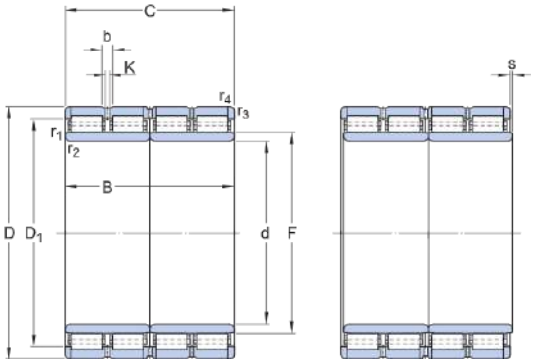
Basic dynamic load rating	25 500 kN
Basic static load rating	85 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	759 mm	Bore diameter
D	1 210 mm	Outside diameter
B	740 mm	Total bearing width over inner ring(s)
C	740 mm	Total bearing width over outer ring(s)
D_1	≈ 1 053.6 mm	Outer ring shoulder diameter
F	885 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 4 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	25 500 kN
Basic static load rating	C_0	85 000 kN
Fatigue load limit	P_u	3 800 kN
Calculation factor	k_r	640

Mass

Mass bearing	3 480 kg

315175 C

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	600 mm
Outside diameter	820 mm
Width	575 mm

Performance

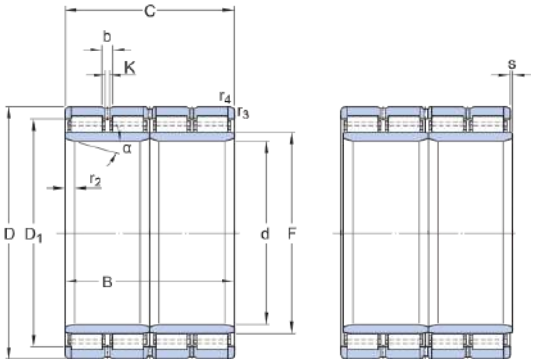
Basic dynamic load rating	14 000 kN
Basic static load rating	36 000 kN
Limiting speed	700 r/min
Reference speed	480 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C2
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33GWI
Bore type	Cylindrical with helical groove



Dimensions

d	600 mm	Bore diameter
D	820 mm	Outside diameter
B	575 mm	Total bearing width over inner ring(s)
C	575 mm	Total bearing width over outer ring(s)
D_1	≈ 744.7 mm	Bore diameter loose flange ring
F	660 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 15 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	14 000 kN
Basic static load rating	C_0	36 000 kN
Fatigue load limit	P_u	2 550 kN
Calculation factor	k_r	700

Mass

Mass bearing	962 kg

315196 A

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	460 mm
Outside diameter	650 mm
Width	424 mm

Performance

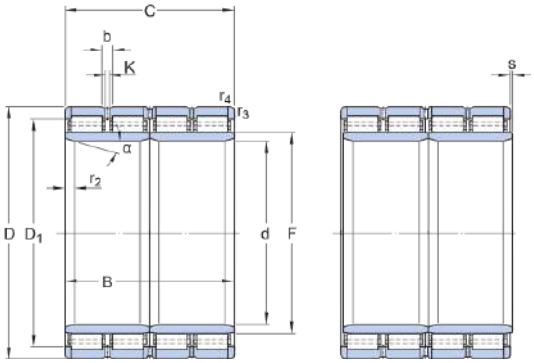
Basic dynamic load rating	8 250 kN
Basic static load rating	18 300 kN
Limiting speed	950 r/min
Reference speed	670 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	460 mm	Bore diameter
D	650 mm	Outside diameter
B	424 mm	Total bearing width over inner ring(s)
C	424 mm	Total bearing width over outer ring(s)
D_1	≈ 594 mm	Bore diameter loose flange ring
F	510 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 12 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	8 250 kN
Basic static load rating	C_0	18 300 kN
Fatigue load limit	P_u	1 530 kN
Calculation factor	k_r	530

Mass

Mass bearing	454 kg

315265

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	937.5 mm
Outside diameter	1 270.25 mm
Width	825.5 mm

Performance

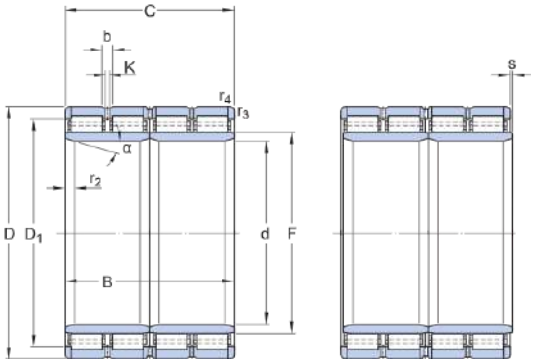
Basic dynamic load rating	28 100 kN
Basic static load rating	83 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	937.5 mm	Bore diameter
D	1 270.25 mm	Outside diameter
B	825.5 mm	Total bearing width over inner ring(s)
C	825.5 mm	Total bearing width over outer ring(s)
D_1	≈ 1 163 mm	Outer ring shoulder diameter
F	1 027 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 27 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	28 100 kN
Basic static load rating	C_0	83 000 kN
Fatigue load limit	P_u	5 300 kN
Calculation factor	k_r	670

Mass

Mass bearing	3 160 kg

315526

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	606.667 mm
Outside diameter	920 mm
Width	640 mm

Performance

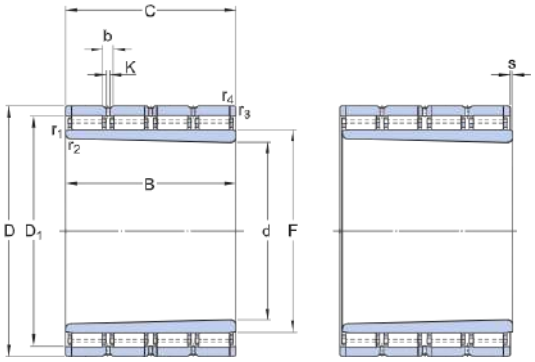
Basic dynamic load rating	16 500 kN
Basic static load rating	45 000 kN

Properties

Bearing part	Complete bearing
Bore type	Tapered 1:12
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C3
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4T.5/W33
Bore type	Tapered 1:12



Dimensions

d	606.667 mm	Bore diameter
D	920 mm	Outside diameter
B	640 mm	Total bearing width over inner ring(s)
C	640 mm	Total bearing width over outer ring(s)
D_1	≈ 818 mm	Outer ring shoulder diameter
F	715.8 mm	Raceway diameter inner ring
b	39 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 4 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	16 500 kN
Basic static load rating	C_0	45 000 kN
Fatigue load limit	P_u	3 100 kN
Calculation factor	k_r	740

Mass

Mass bearing	1 525 kg

315802/VJ202

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	590 mm
Width	440 mm

Performance

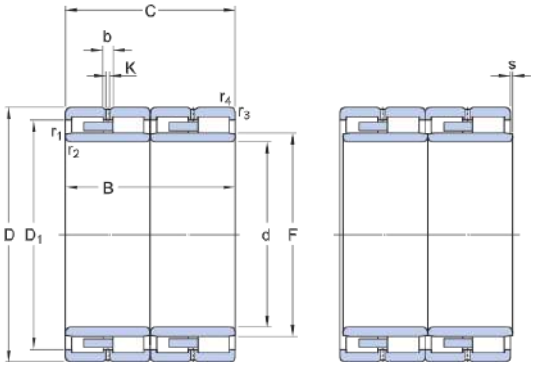
Basic dynamic load rating	7 920 kN
Basic static load rating	16 600 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.7/W33WI
Bore type	Cylindrical



Dimensions

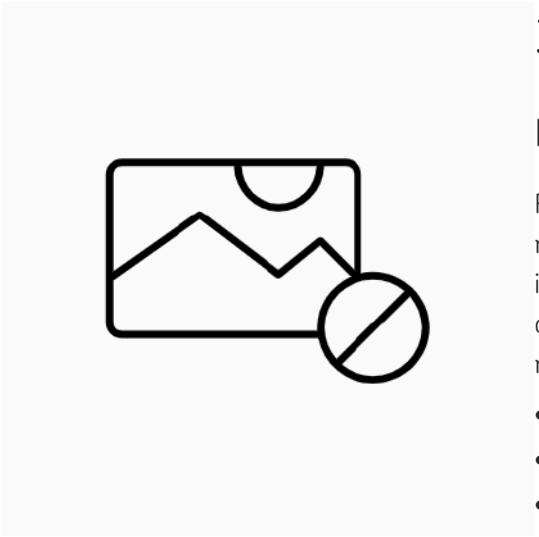
d	400 mm	Bore diameter
D	590 mm	Outside diameter
B	440 mm	Total bearing width over inner ring(s)
C	440 mm	Total bearing width over outer ring(s)
D_1	≈ 530 mm	Outer ring shoulder diameter
F	450 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 5 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	7 920 kN
Basic static load rating	C_0	16 600 kN
Fatigue load limit	P_u	1 400 kN
Calculation factor	k_r	660

Mass

Mass bearing	415 kg



315811 E

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	450 mm
Outside diameter	590 mm
Width	300 mm

Performance

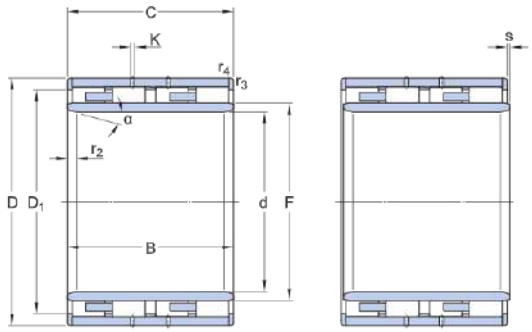
Basic dynamic load rating	3 910 kN
Basic static load rating	12 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.5/W20
Bore type	Cylindrical



Dimensions

d	450 mm	Bore diameter
D	590 mm	Outside diameter
B	300 mm	Total bearing width over inner ring(s)
C	300 mm	Total bearing width over outer ring(s)
D_1	≈ 528 mm	Outer ring shoulder diameter
F	490 mm	Raceway diameter inner ring
K	6 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 12 mm	Corner radius/chamfer inner ring
α	45 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	3 910 kN
Basic static load rating	C_0	12 000 kN
Fatigue load limit	P_u	1 020 kN
Calculation factor	k_r	440

Mass

Mass bearing	245 kg

315826 B

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	850 mm
Outside diameter	1 150 mm
Width	840 mm

Performance

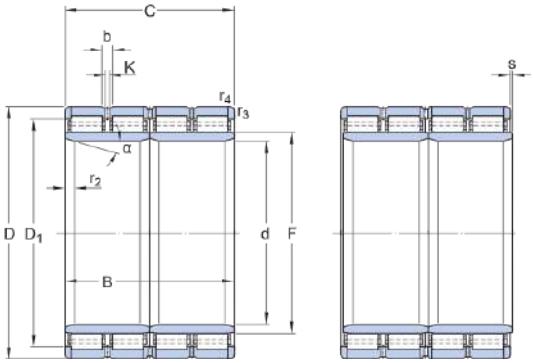
Basic dynamic load rating	27 500 kN
Basic static load rating	75 000 kN
Limiting speed	450 r/min
Reference speed	300 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	850 mm	Bore diameter
D	1 150 mm	Outside diameter
B	840 mm	Total bearing width over inner ring(s)
C	840 mm	Total bearing width over outer ring(s)
D_1	≈ 1 063.2 mm	Outer ring shoulder diameter
F	928 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 23 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	27 500 kN
Basic static load rating	C_0	75 000 kN
Fatigue load limit	P_u	4 800 kN
Calculation factor	k_r	740

Mass

Mass bearing	2 570 kg

316083 A

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	670 mm
Width	450 mm

Performance

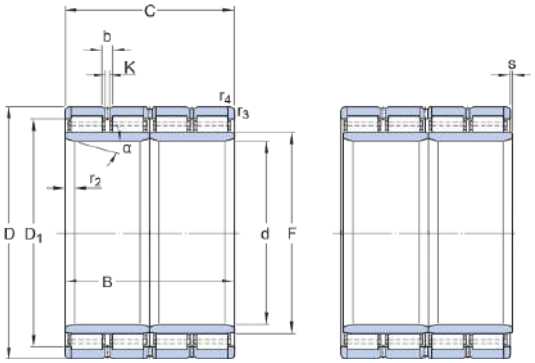
Basic dynamic load rating	8 250 kN
Basic static load rating	22 000 kN
Limiting speed	900 r/min
Reference speed	630 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C2
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33GWI
Bore type	Cylindrical with helical groove



Dimensions

d	500 mm	Bore diameter
D	670 mm	Outside diameter
B	450 mm	Total bearing width over inner ring(s)
C	450 mm	Total bearing width over outer ring(s)
D_1	≈ 612 mm	Bore diameter loose flange ring
F	540 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 12.5 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	8 250 kN
Basic static load rating	C_0	22 000 kN
Fatigue load limit	P_u	1 800 kN
Calculation factor	k_r	640

Mass

Mass bearing	460 kg

316691

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	550 mm
Outside diameter	740 mm
Width	510 mm

Performance

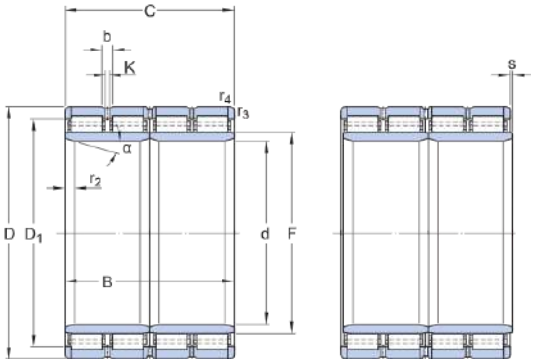
Basic dynamic load rating	11 000 kN
Basic static load rating	27 000 kN
Limiting speed	800 r/min
Reference speed	560 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	550 mm	Bore diameter
D	740 mm	Outside diameter
B	510 mm	Total bearing width over inner ring(s)
C	510 mm	Total bearing width over outer ring(s)
D_1	≈ 684.2 mm	Bore diameter loose flange ring
F	600 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 15 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	11 000 kN
Basic static load rating	C_0	27 000 kN
Fatigue load limit	P_u	2 160 kN
Calculation factor	k_r	0

Mass

Mass bearing	630 kg

319254/VJ202

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	650 mm
Width	260 mm

Performance

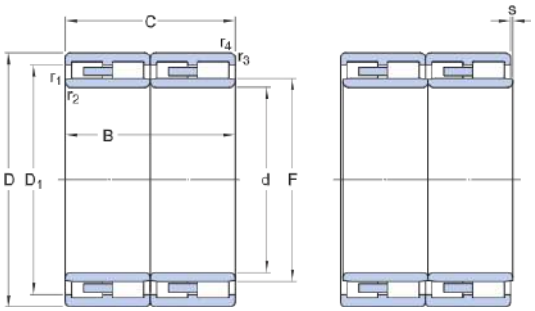
Basic dynamic load rating	4 400 kN
Basic static load rating	10 200 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	Without
Sealing	Without

Technical Specification

Design variant/feature	BC4.7/WO
Bore type	Cylindrical



Dimensions

d	500	mm	Bore diameter
D	650	mm	Outside diameter
B	260	mm	Total bearing width over inner ring(s)
C	260	mm	Total bearing width over outer ring(s)
D_1	≈ 599.6	mm	Outer ring shoulder diameter
F	542	mm	Raceway diameter inner ring
$r_{1,2}$	min. 5	mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 5	mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	4 400 kN
Basic static load rating	C_0	10 200 kN
Fatigue load limit	P_u	850 kN
Calculation factor	k_r	310

Mass

Mass bearing	225 kg

319320

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	480 mm
Outside diameter	680 mm
Width	420 mm

Performance

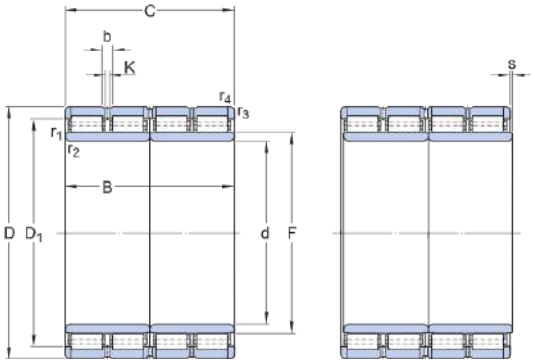
Basic dynamic load rating	9 130 kN
Basic static load rating	19 300 kN
Limiting speed	950 r/min
Reference speed	630 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

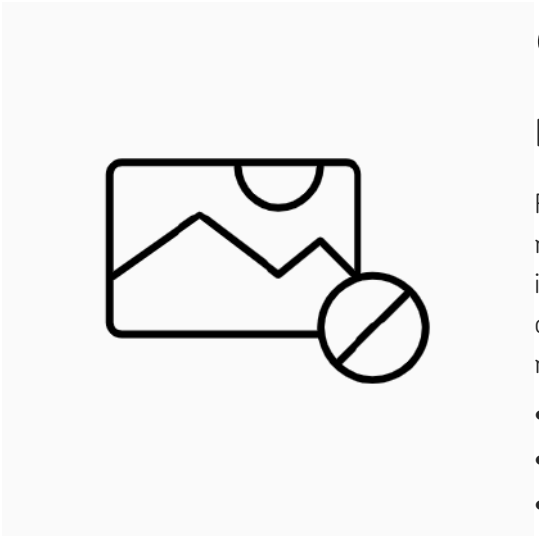
d	480 mm	Bore diameter
D	680 mm	Outside diameter
B	420 mm	Total bearing width over inner ring(s)
C	420 mm	Total bearing width over outer ring(s)
D_1	≈ 620.7 mm	Bore diameter loose flange ring
F	528 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 12 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	9 130 kN
Basic static load rating	C_0	19 300 kN
Fatigue load limit	P_u	1 500 kN
Calculation factor	k_r	570

Mass

Mass bearing	496 kg



635043

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	440 mm
Outside diameter	660 mm
Width	340 mm

Performance

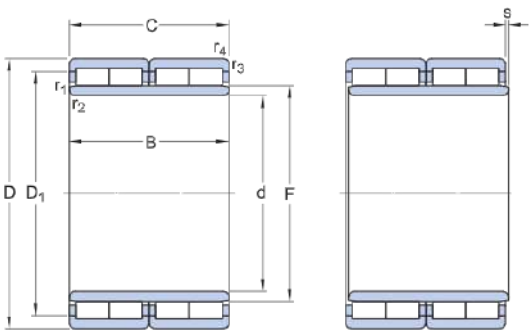
Basic dynamic load rating	7 210 kN
Basic static load rating	13 700 kN
Limiting speed	1 000 r/min
Reference speed	670 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without
Sealing	Without

Technical Specification

Design variant/feature	BC4.4/W0
Bore type	Cylindrical



Dimensions

d	440 mm	Bore diameter
D	660 mm	Outside diameter
B	340 mm	Total bearing width over inner ring(s)
C	340 mm	Total bearing width over outer ring(s)
D_1	≈ 579.8 mm	Outer ring shoulder diameter
F	492 mm	Raceway diameter inner ring
$r_{1,2}$	min. 6 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 6 mm	Chamfer dimension on the outer ring

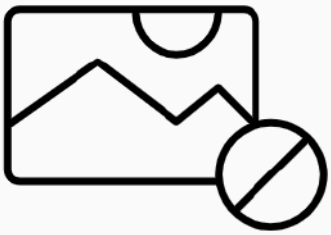
Calculation data

Basic dynamic load rating	C	7 210 kN
Basic static load rating	C_0	13 700 kN
Fatigue load limit	P_u	1 080 kN
Calculation factor	k_r	450

Mass

Mass bearing	436 kg

BC2B 326196/HA1VJ202



Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	487.98 mm
Outside diameter	637 mm
Width	350 mm

Performance

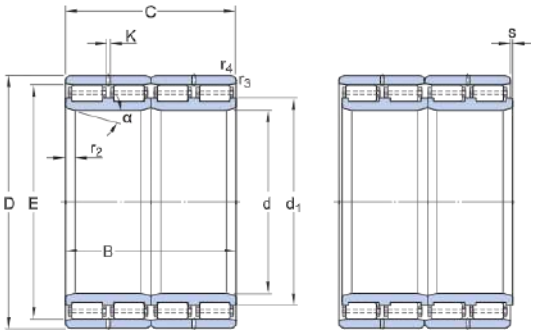
Basic dynamic load rating	6 440 kN
Basic static load rating	15 300 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	0
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.15/W20WI
Bore type	Cylindrical



Dimensions

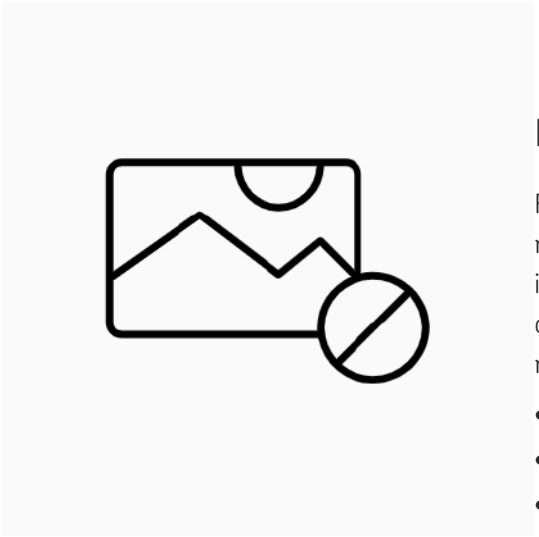
d	487.98 mm	Bore diameter
D	637 mm	Outside diameter
B	350 mm	Total bearing width over inner ring(s)
C	350 mm	Total bearing width over outer ring(s)
d_1	≈ 540.7 mm	Inner ring shoulder diameter
E	605.7 mm	Raceway diameter outer ring
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 10.5 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	6 440 kN
Basic static load rating	C_0	15 300 kN
Fatigue load limit	P_u	1 220 kN
Calculation factor	k_r	480

Mass

Mass bearing	300 kg



BC4-8003/HA1VA907

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	475 mm
Outside diameter	600 mm
Width	392 mm

Performance

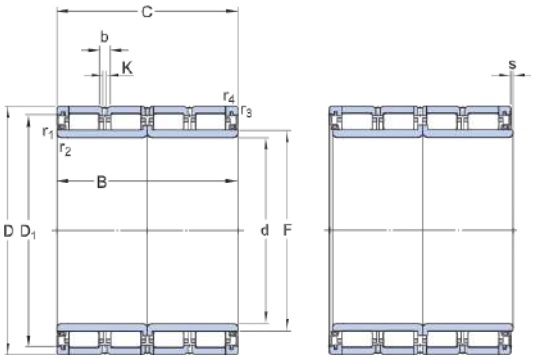
Basic dynamic load rating	5 500 kN
Basic static load rating	14 600 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	Grease
Number of rows	4
Radial internal clearance	CN
Relubrication feature	With
Sealing	Seal on both sides
Sealing type	Contact

Technical Specification

Design variant/feature	BC4.22/W33G
Bore type	Cylindrical with helical groove



Dimensions

d	475 mm	Bore diameter
D	600 mm	Outside diameter
B	392 mm	Total bearing width over inner ring(s)
C	392 mm	Total bearing width over outer ring(s)
D_1	≈ 562.3 mm	Outer ring shoulder diameter
F	504 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 3 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	5 500 kN
Basic static load rating	C_0	14 600 kN
Fatigue load limit	P_u	1 270 kN
Calculation factor	k_r	500

Mass

Mass bearing	240 kg

BC4-8005/HA4

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	1 400 mm
Outside diameter	1 900 mm
Width	1 360 mm

Performance

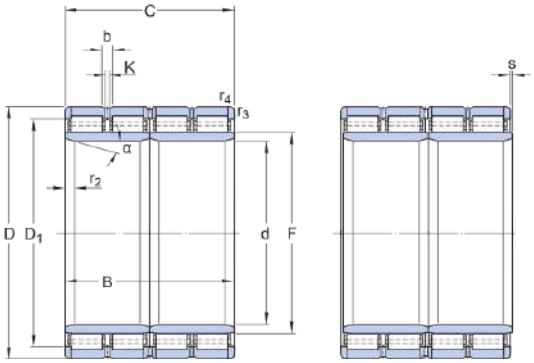
Basic dynamic load rating	61 600 kN
Basic static load rating	183 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	1 400 mm	Bore diameter
D	1 900 mm	Outside diameter
B	1 360 mm	Total bearing width over inner ring(s)
C	1 360 mm	Total bearing width over outer ring(s)
D_1	≈ 1 670 mm	Outer ring shoulder diameter
F	1 521 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 40 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 12 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	61 600 kN
Basic static load rating	C_0	183 000 kN
Fatigue load limit	P_u	10 400 kN
Calculation factor	k_r	660

Mass

Mass bearing	11 300 kg

BC4-8007/HB1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	510 mm
Outside diameter	760 mm
Width	550 mm

Performance

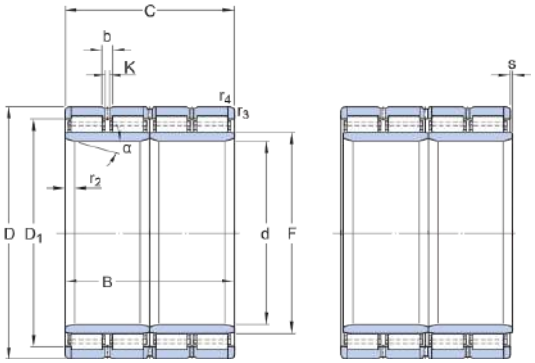
Basic dynamic load rating	12 100 kN
Basic static load rating	26 500 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	510 mm	Bore diameter
D	760 mm	Outside diameter
B	550 mm	Total bearing width over inner ring(s)
C	550 mm	Total bearing width over outer ring(s)
D_1	≈ 688 mm	Outer ring shoulder diameter
F	570 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 16 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	12 100 kN
Basic static load rating	C_0	26 500 kN
Fatigue load limit	P_u	2 000 kN
Calculation factor	k_r	640

Mass

Mass bearing	950 kg

BC4-8009/HB1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	510 mm
Outside diameter	730 mm
Width	520 mm

Performance

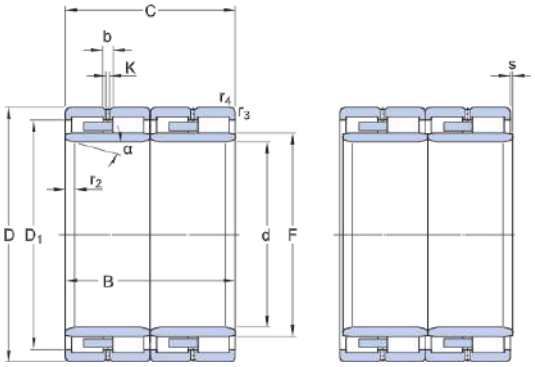
Basic dynamic load rating	10 200 kN
Basic static load rating	22 000 kN
Limiting speed	850 r/min
Reference speed	560 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.7/W33WI
Bore type	Cylindrical



Dimensions

d	510 mm	Bore diameter
D	730 mm	Outside diameter
B	520 mm	Total bearing width over inner ring(s)
C	520 mm	Total bearing width over outer ring(s)
D_1	≈ 665.3 mm	Outer ring shoulder diameter
F	569 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 17.5 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 6 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	10 200 kN
Basic static load rating	C_0	22 000 kN
Fatigue load limit	P_u	1 660 kN
Calculation factor	k_r	560

Mass

Mass bearing	684 kg

BC4-8015/HB1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	780 mm
Outside diameter	1 070 mm
Width	780 mm

Performance

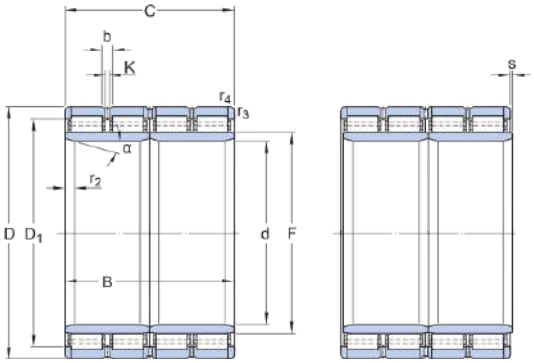
Basic dynamic load rating	24 200 kN
Basic static load rating	61 000 kN
Limiting speed	500 r/min
Reference speed	340 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	780 mm	Bore diameter
D	1 070 mm	Outside diameter
B	780 mm	Total bearing width over inner ring(s)
C	780 mm	Total bearing width over outer ring(s)
D_1	≈ 988.2 mm	Bore diameter loose flange ring
F	853 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 25 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 6 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	24 200 kN
Basic static load rating	C_0	61 000 kN
Fatigue load limit	P_u	4 050 kN
Calculation factor	k_r	700

Mass

Mass bearing	2 182 kg

BC4-8016/HA4

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	1 300 mm
Outside diameter	1 655 mm
Width	890 mm

Performance

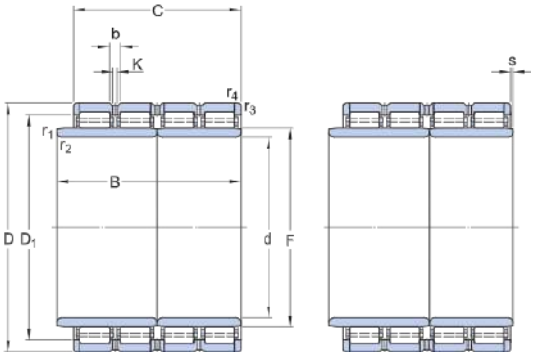
Basic dynamic load rating	40 200 kN
Basic static load rating	122 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Inner ring extension	On one side
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.19/W33WI
Bore type	Cylindrical



Dimensions

d	1 300 mm	Bore diameter
D	1 655 mm	Outside diameter
B	890 mm	Total bearing width over inner ring(s)
C	880 mm	Total bearing width over outer ring(s)
D_1	≈ 1 551.7 mm	Outer ring shoulder diameter
F	1 391 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 7.5 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	40 200 kN
Basic static load rating	C_0	122 000 kN
Fatigue load limit	P_u	7 100 kN
Calculation factor	k_r	550

Mass

Mass bearing	4 800 kg

BC4-8021/HB1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	850 mm
Outside diameter	1 180 mm
Width	850 mm

Performance

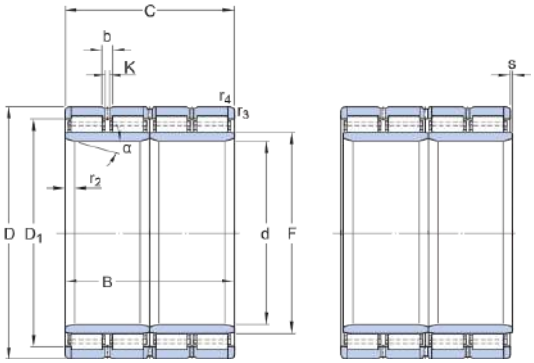
Basic dynamic load rating	28 100 kN
Basic static load rating	73 500 kN
Limiting speed	450 r/min
Reference speed	300 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	850 mm	Bore diameter
D	1 180 mm	Outside diameter
B	850 mm	Total bearing width over inner ring(s)
C	850 mm	Total bearing width over outer ring(s)
D_1	≈ 1 083.7 mm	Bore diameter loose flange ring
F	940 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 20 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	28 100 kN
Basic static load rating	C_0	73 500 kN
Fatigue load limit	P_u	4 650 kN
Calculation factor	k_r	700

Mass

Mass bearing	2 900 kg

BC4-8029/HA4

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	1 350 mm
Outside diameter	1 765 mm
Width	1 360 mm

Performance

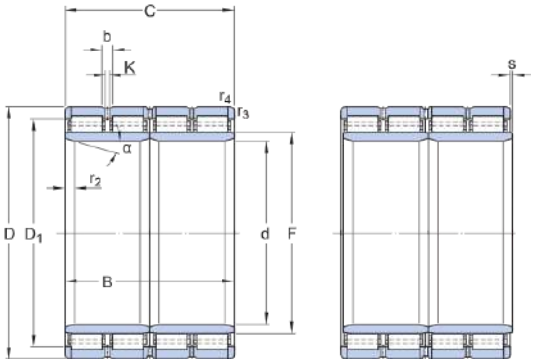
Basic dynamic load rating	40 200 kN
Basic static load rating	122 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	1 350 mm	Bore diameter
D	1 765 mm	Outside diameter
B	1 360 mm	Total bearing width over inner ring(s)
C	1 360 mm	Total bearing width over outer ring(s)
D_1	≈ 1 620 mm	Outer ring shoulder diameter
F	1 457 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 42 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension on the outer ring

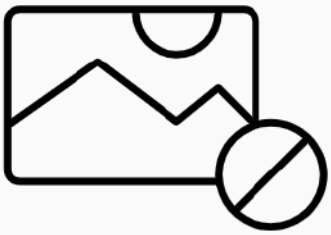
Calculation data

Basic dynamic load rating	C	40 200 kN
Basic static load rating	C_0	122 000 kN
Fatigue load limit	P_u	6 950 kN
Calculation factor	k_r	500

Mass

Mass bearing	9 100 kg

BC4-8037/HA1VA907



Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	431.5 mm
Outside diameter	571.5 mm
Width	310 mm

Performance

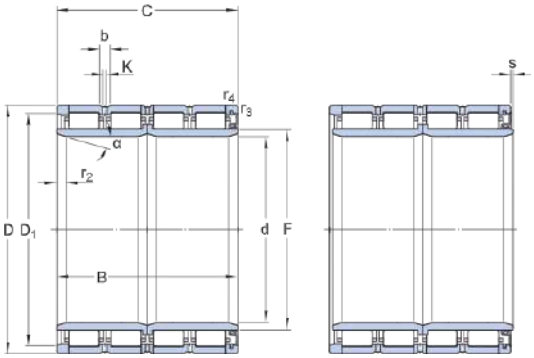
Basic dynamic load rating	4 460 kN
Basic static load rating	10 200 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Seal on one side
Sealing type	Contact

Technical Specification

Design variant/feature	BC4.23/W33WI
Bore type	Cylindrical



Dimensions

d	431.5 mm	Bore diameter
D	571.5 mm	Outside diameter
B	310 mm	Total bearing width over inner ring(s)
C	310 mm	Total bearing width over outer ring(s)
D_1	≈ 530.6 mm	Outer ring shoulder diameter
F	465 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 12 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	4 460 kN
Basic static load rating	C_0	10 200 kN
Fatigue load limit	P_u	880 kN
Calculation factor	k_r	400

Mass

Mass bearing	200 kg

BC4-8041/HA4

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	620 mm
Outside diameter	820 mm
Width	475 mm

Performance

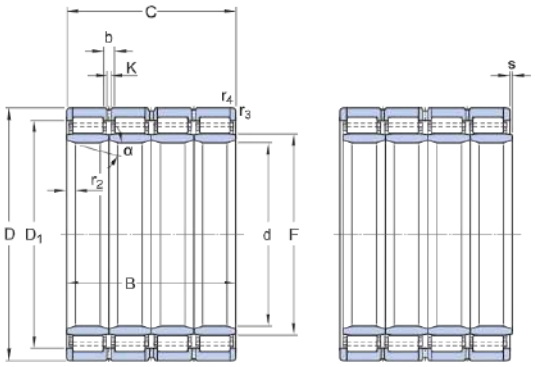
Basic dynamic load rating	10 100 kN
Basic static load rating	26 500 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.14/W33WI
Bore type	Cylindrical



Dimensions

d	620 mm	Bore diameter
D	820 mm	Outside diameter
B	475 mm	Total bearing width over inner ring(s)
C	475 mm	Total bearing width over outer ring(s)
D_1	≈ 750 mm	Outer ring shoulder diameter
F	670 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 16 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 6 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	10 100 kN
Basic static load rating	C_0	26 500 kN
Fatigue load limit	P_u	1 900 kN
Calculation factor	k_r	510

Mass

Mass bearing	700 kg

BC4-8042/HA4

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	1 400 mm
Outside diameter	1 780 mm
Width	1 200 mm

Performance

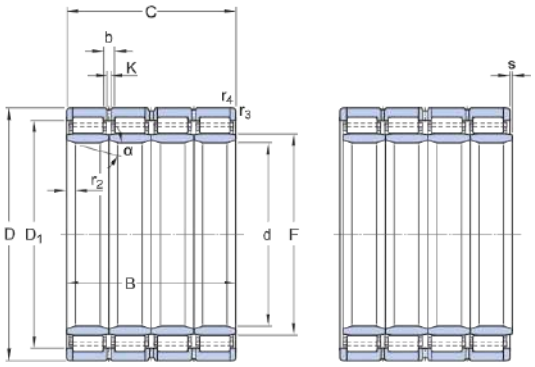
Basic dynamic load rating	52 300 kN
Basic static load rating	163 000 kN
Limiting speed	220 r/min
Reference speed	150 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C5
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.14/W33WI
Bore type	Cylindrical



Dimensions

d	1 400 mm	Bore diameter
D	1 780 mm	Outside diameter
B	1 200 mm	Total bearing width over inner ring(s)
C	1 200 mm	Total bearing width over outer ring(s)
D_1	≈ 1 670.7 mm	Bore diameter loose flange ring
F	1 493 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 40 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 9.5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	52 300 kN
Basic static load rating	C_0	163 000 kN
Fatigue load limit	P_u	9 300 kN
Calculation factor	k_r	640

Mass

Mass bearing	7 510 kg

BC4-8046/HB1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	556 mm
Outside diameter	800 mm
Width	580 mm

Performance

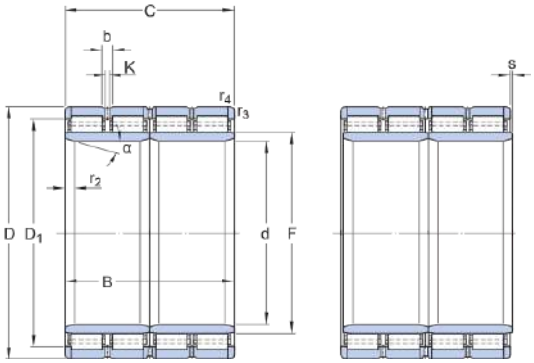
Basic dynamic load rating	10 500 kN
Basic static load rating	25 500 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	556 mm	Bore diameter
D	800 mm	Outside diameter
B	580 mm	Total bearing width over inner ring(s)
C	580 mm	Total bearing width over outer ring(s)
D_1	≈ 721.2 mm	Outer ring shoulder diameter
F	620 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 17 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 6 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	10 500 kN
Basic static load rating	C_0	25 500 kN
Fatigue load limit	P_u	1 860 kN
Calculation factor	k_r	550

Mass

Mass bearing	900 kg

BC4-8059

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	560 mm
Width	300 mm

Performance

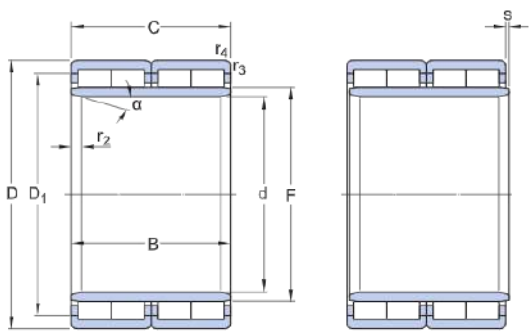
Basic dynamic load rating	4 680 kN
Basic static load rating	10 200 kN
Limiting speed	1 200 r/min
Reference speed	800 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	Without
Sealing	Without

Technical Specification

Design variant/feature	BC4.4/WO
Bore type	Cylindrical



Dimensions

d	400 mm	Bore diameter
D	560 mm	Outside diameter
B	300 mm	Total bearing width over inner ring(s)
C	300 mm	Total bearing width over outer ring(s)
D_1	≈ 512.6 mm	Outer ring shoulder diameter
F	442 mm	Raceway diameter inner ring
$r_{1,2}$	min. 12 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	4 680 kN
Basic static load rating	C_0	10 200 kN
Fatigue load limit	P_u	900 kN
Calculation factor	k_r	0

Mass

Mass bearing	245 kg

BC4-8062/HA1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	1 040 mm
Outside diameter	1 440 mm
Width	1 000 mm

Performance

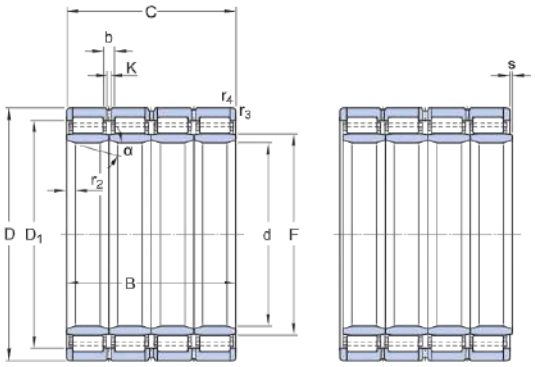
Basic dynamic load rating	38 000 kN
Basic static load rating	93 000 kN
Limiting speed	340 r/min
Reference speed	220 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.14/W33WI
Bore type	Cylindrical



Dimensions

d	1 040 mm	Bore diameter
D	1 440 mm	Outside diameter
B	1 000 mm	Total bearing width over inner ring(s)
C	1 000 mm	Total bearing width over outer ring(s)
D_1	≈ 1 327.7 mm	Bore diameter loose flange ring
F	1 133 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 12 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	38 000 kN
Basic static load rating	C_0	93 000 kN
Fatigue load limit	P_u	5 700 kN
Calculation factor	k_r	600

Mass

Mass bearing	5 100 kg

BC4-8066/HA3

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	750 mm
Outside diameter	1 090 mm
Width	750 mm

Performance

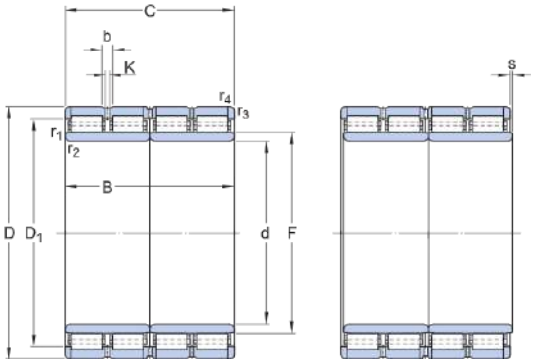
Basic dynamic load rating	21 600 kN
Basic static load rating	51 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	750 mm	Bore diameter
D	1 090 mm	Outside diameter
B	750 mm	Total bearing width over inner ring(s)
C	750 mm	Total bearing width over outer ring(s)
D_1	≈ 993 mm	Outer ring shoulder diameter
F	832 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 4 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	21 600 kN
Basic static load rating	C_0	51 000 kN
Fatigue load limit	P_u	3 400 kN
Calculation factor	k_r	590

Mass

Mass bearing	2 420 kg

BC4-8067/HA3

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	900 mm
Outside diameter	1 280 mm
Width	780 mm

Performance

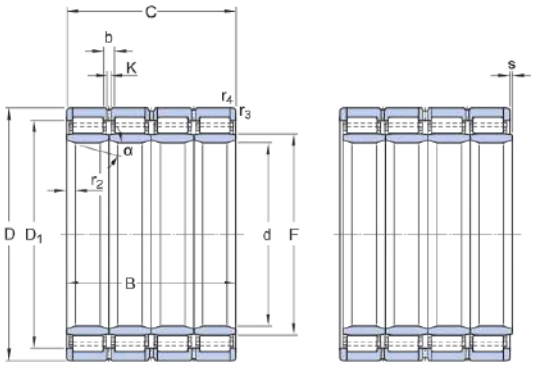
Basic dynamic load rating	28 600 kN
Basic static load rating	64 000 kN
Limiting speed	400 r/min
Reference speed	280 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.14/W33WI
Bore type	Cylindrical



Dimensions

d	900 mm	Bore diameter
D	1 280 mm	Outside diameter
B	780 mm	Total bearing width over inner ring(s)
C	780 mm	Total bearing width over outer ring(s)
D_1	≈ 1 280 mm	Bore diameter loose flange ring
F	988 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 27 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 7.5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	28 600 kN
Basic static load rating	C_0	64 000 kN
Fatigue load limit	P_u	4 050 kN
Calculation factor	k_r	530

Mass

Mass bearing	3 320 kg

BC4B 316341/HA4

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	820 mm
Outside diameter	1 100 mm
Width	745 mm

Performance

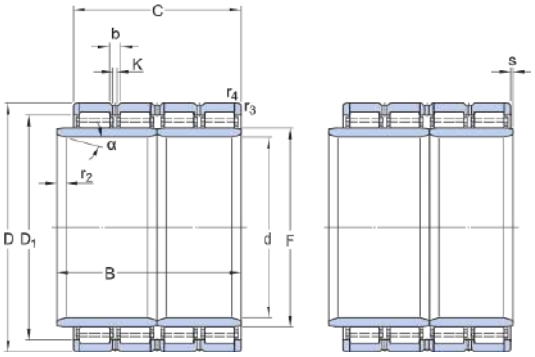
Basic dynamic load rating	21 200 kN
Basic static load rating	57 000 kN
Limiting speed	480 r/min
Reference speed	320 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Inner ring extension	On one side
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.19/W33WI
Bore type	Cylindrical



Dimensions

d	820 mm	Bore diameter
D	1 100 mm	Outside diameter
B	745 mm	Total bearing width over inner ring(s)
C	720 mm	Total bearing width over outer ring(s)
D_1	≈ 1 010 mm	Bore diameter loose flange ring
F	892 mm	Raceway diameter inner ring
b	44 mm	Width of annular groove
K	20 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 22 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	21 200 kN
Basic static load rating	C_0	57 000 kN
Fatigue load limit	P_u	3 750 kN
Calculation factor	k_r	0

Mass

Mass bearing	2 000 kg

BC4B 316515

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	680 mm
Width	450 mm

Performance

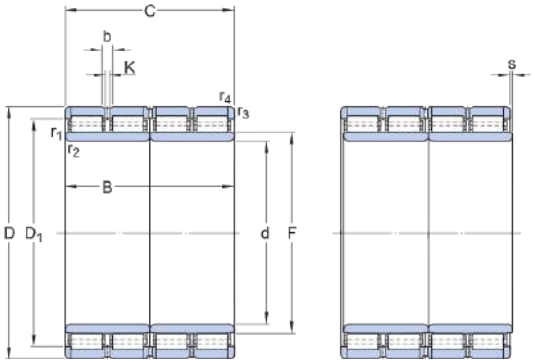
Basic dynamic load rating	8 250 kN
Basic static load rating	22 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	500 mm	Bore diameter
D	680 mm	Outside diameter
B	450 mm	Total bearing width over inner ring(s)
C	450 mm	Total bearing width over outer ring(s)
D_1	≈ 621.6 mm	Outer ring shoulder diameter
F	550 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 6 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	8 250 kN
Basic static load rating	C_0	22 000 kN
Fatigue load limit	P_u	1 800 kN
Calculation factor	k_r	620

Mass

Mass bearing	500 kg

BC4B 319411

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	510 mm
Outside diameter	680 mm
Width	500 mm

Performance

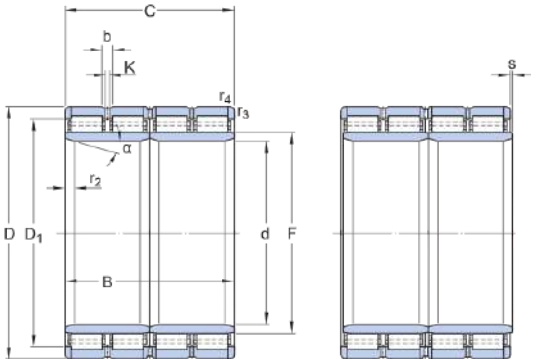
Basic dynamic load rating	9 680 kN
Basic static load rating	26 000 kN
Limiting speed	900 r/min
Reference speed	600 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	510 mm	Bore diameter
D	680 mm	Outside diameter
B	500 mm	Total bearing width over inner ring(s)
C	500 mm	Total bearing width over outer ring(s)
D_1	≈ 630.6 mm	Bore diameter loose flange ring
F	560 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 22 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	9 680 kN
Basic static load rating	C_0	26 000 kN
Fatigue load limit	P_u	2 080 kN
Calculation factor	k_r	0

Mass

Mass bearing	522 kg

BC4B 320989/HA3

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	540 mm
Width	400 mm

Performance

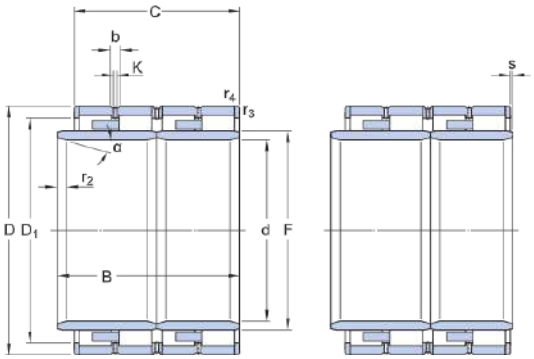
Basic dynamic load rating	6 440 kN
Basic static load rating	14 000 kN
Limiting speed	1 200 r/min
Reference speed	800 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Inner ring extension	On one side
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C2
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.18/W33GWI
Bore type	Cylindrical with helical groove



Dimensions

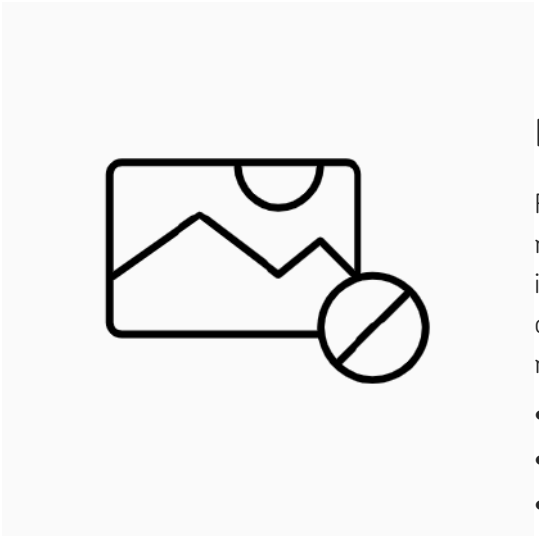
d	380 mm	Bore diameter
D	540 mm	Outside diameter
B	400 mm	Total bearing width over inner ring(s)
C	380 mm	Total bearing width over outer ring(s)
D_1	≈ 492.5 mm	Bore diameter loose flange ring
D_1	≈ 492.5 mm	Outer ring shoulder diameter
F	422 mm	Raceway diameter inner ring
b	13.9 mm	Width of annular groove
K	7.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 4 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	6 440 kN
Basic static load rating	C_0	14 000 kN
Fatigue load limit	P_u	1 200 kN
Calculation factor	k_r	650

Mass

Mass bearing	300 kg



BC4B 322039/HA1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	670 mm
Width	480 mm

Performance

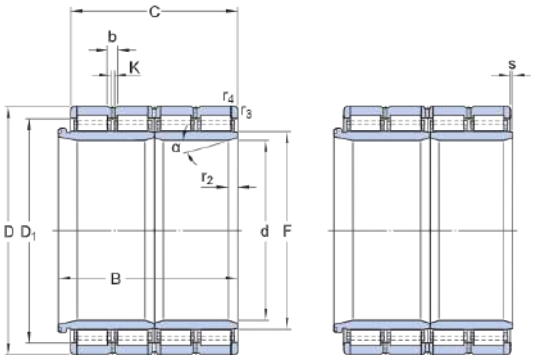
Basic dynamic load rating	8 250 kN
Basic static load rating	22 000 kN
Limiting speed	900 r/min
Reference speed	630 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Inner ring extension	On one side
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C2
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.20/W33GWI
Bore type	Cylindrical with helical groove



Dimensions

d	500 mm	Bore diameter
D	670 mm	Outside diameter
B	480 mm	Total bearing width over inner ring(s)
C	450 mm	Total bearing width over outer ring(s)
D_1	≈ 612 mm	Bore diameter loose flange ring
F	540 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 12.5 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	8 250 kN
Basic static load rating	C_0	22 000 kN
Fatigue load limit	P_u	1 800 kN
Calculation factor	k_r	640

Mass

Mass bearing	485 kg

BC4B 322066

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	720 mm
Width	400 mm

Performance

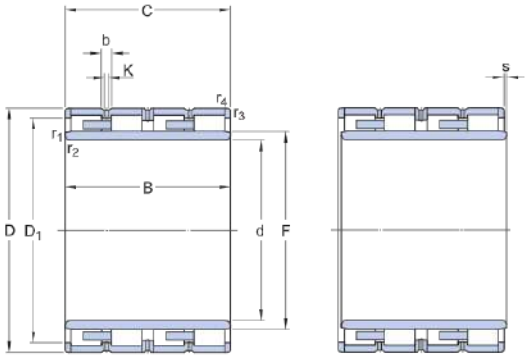
Basic dynamic load rating	8 580 kN
Basic static load rating	17 600 kN
Limiting speed	850 r/min
Reference speed	600 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C3
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.3/W33
Bore type	Cylindrical



Dimensions

d	500 mm	Bore diameter
D	720 mm	Outside diameter
B	400 mm	Total bearing width over inner ring(s)
C	400 mm	Total bearing width over outer ring(s)
D_1	≈ 656 mm	Bore diameter loose flange ring
F	558 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	22.3 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 4 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	8 580 kN
Basic static load rating	C_0	17 600 kN
Fatigue load limit	P_u	1 320 kN
Calculation factor	k_r	460

Mass

Mass bearing	544 kg

BC4B 322264/HB1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	560 mm
Width	325 mm

Performance

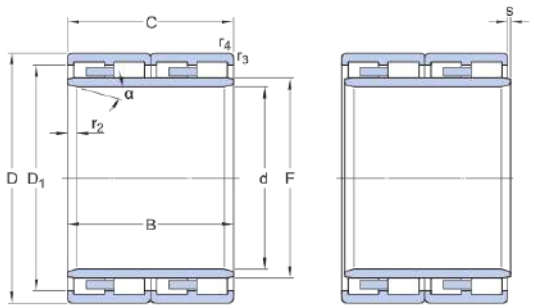
Basic dynamic load rating	5 230 kN
Basic static load rating	10 600 kN
Limiting speed	1 200 r/min
Reference speed	800 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C3
Relubrication feature	Without
Sealing	Without

Technical Specification

Design variant/feature	BC4.1/W
Bore type	Cylindrical



Dimensions

d	380	mm	Bore diameter
D	560	mm	Outside diameter
B	325	mm	Total bearing width over inner ring(s)
C	325	mm	Total bearing width over outer ring(s)
D_1	≈ 508	mm	Outer ring shoulder diameter
F	428	mm	Raceway diameter inner ring
$r_{1,2}$	min. 13	mm	Corner radius/chamfer inner ring
α	20	°	Chamfer angle inner ring
$r_{3,4}$	min. 5	mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	5 230 kN
Basic static load rating	C_0	10 600 kN
Fatigue load limit	P_u	930 kN
Calculation factor	k_r	0

Mass

Mass bearing	270 kg

BC4B 322497/HA4

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	600 mm
Outside diameter	870 mm
Width	578 mm

Performance

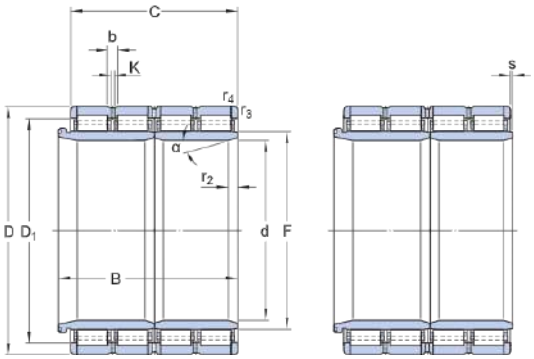
Basic dynamic load rating	13 200 kN
Basic static load rating	31 500 kN
Limiting speed	700 r/min
Reference speed	480 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Inner ring extension	On one side
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C2
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.20/W33GWI
Bore type	Cylindrical with helical groove



Dimensions

d	600 mm	Bore diameter
D	870 mm	Outside diameter
B	578 mm	Total bearing width over inner ring(s)
C	540 mm	Total bearing width over outer ring(s)
D_1	≈ 790.2 mm	Bore diameter loose flange ring
F	672 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 13.5 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 5 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	13 200 kN
Basic static load rating	C_0	31 500 kN
Fatigue load limit	P_u	2 240 kN
Calculation factor	k_r	570

Mass

Mass bearing	1 150 kg

BC4B 322930/HA4

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	560 mm
Outside diameter	820 mm
Width	600 mm

Performance

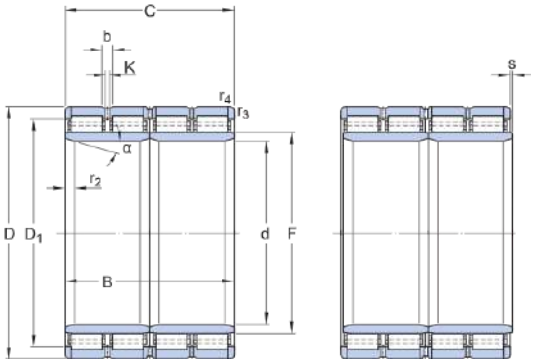
Basic dynamic load rating	14 200 kN
Basic static load rating	34 000 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	560 mm	Bore diameter
D	820 mm	Outside diameter
B	600 mm	Total bearing width over inner ring(s)
C	600 mm	Total bearing width over outer ring(s)
D_1	≈ 743 mm	Outer ring shoulder diameter
F	625 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 18.5 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 6 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	14 200 kN
Basic static load rating	C_0	34 000 kN
Fatigue load limit	P_u	2 450 kN
Calculation factor	k_r	700

Mass

Mass bearing	1 080 kg

BC4B 322993 A/HA7

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	460 mm
Outside diameter	650 mm
Width	460 mm

Performance

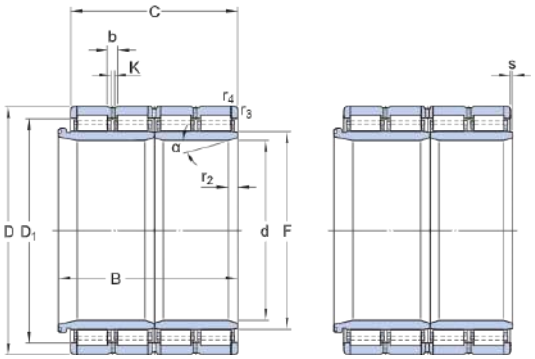
Basic dynamic load rating	7 810 kN
Basic static load rating	18 300 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Inner ring extension	On one side
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of rows	4
Radial internal clearance	C2
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.20/W33GWI
Bore type	Cylindrical with helical groove



Dimensions

d	460 mm	Bore diameter
D	650 mm	Outside diameter
B	460 mm	Total bearing width over inner ring(s)
C	424 mm	Total bearing width over outer ring(s)
D_1	≈ 594 mm	Outer ring shoulder diameter
F	510 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 11.5 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	7 810 kN
Basic static load rating	C_0	18 300 kN
Fatigue load limit	P_u	1 530 kN
Calculation factor	k_r	530

Mass

Mass bearing	490 kg

BC4B 326261/HA1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	475 mm
Outside diameter	600 mm
Width	368 mm

Performance

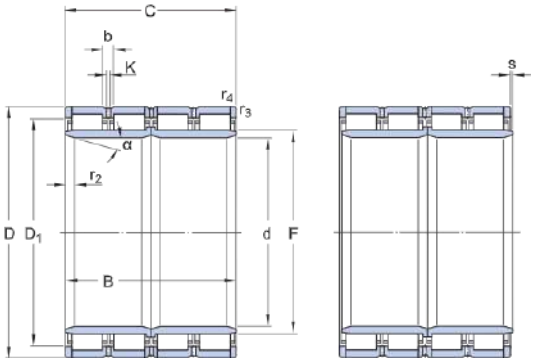
Basic dynamic load rating	5 500 kN
Basic static load rating	14 600 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of rows	4
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.12/W33G
Bore type	Cylindrical with helical groove



Dimensions

d	475 mm	Bore diameter
D	600 mm	Outside diameter
B	368 mm	Total bearing width over inner ring(s)
C	368 mm	Total bearing width over outer ring(s)
D_1	≈ 562.3 mm	Outer ring shoulder diameter
F	504 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 12 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	5 500 kN
Basic static load rating	C_0	14 600 kN
Fatigue load limit	P_u	1 270 kN
Calculation factor	k_r	500

Mass

Mass bearing	235 kg

BC4B 326361 B/HA1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	431.5 mm
Outside diameter	571.5 mm
Width	300 mm

Performance

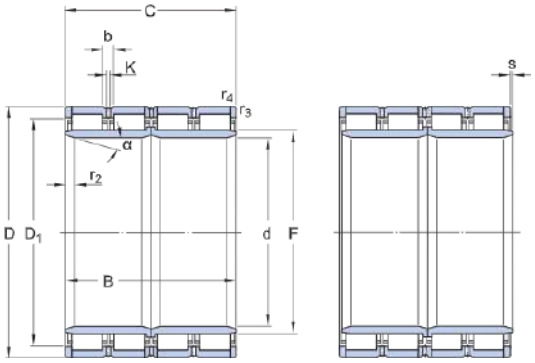
Basic dynamic load rating	4 460 kN
Basic static load rating	10 200 kN

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.12/W33WI
Bore type	Cylindrical



Dimensions

d	431.5 mm	Bore diameter
D	571.5 mm	Outside diameter
B	300 mm	Total bearing width over inner ring(s)
C	300 mm	Total bearing width over outer ring(s)
D_1	≈ 530.6 mm	Outer ring shoulder diameter
F	465 mm	Raceway diameter inner ring
b	16.7 mm	Width of annular groove
K	9 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 12 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	4 460 kN
Basic static load rating	C_0	10 200 kN
Fatigue load limit	P_u	880 kN
Calculation factor	k_r	400

Mass

Mass bearing	210 kg

BC4B 326853/HB1

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	738 mm
Width	500 mm

Performance

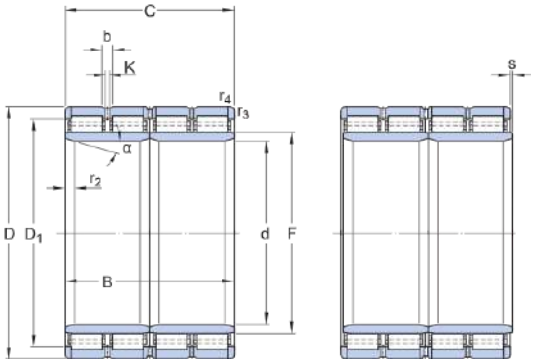
Basic dynamic load rating	10 800 kN
Basic static load rating	23 200 kN
Limiting speed	850 r/min
Reference speed	560 r/min

Properties

Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	C4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4.10/W33WI
Bore type	Cylindrical



Dimensions

d	500 mm	Bore diameter
D	738 mm	Outside diameter
B	500 mm	Total bearing width over inner ring(s)
C	500 mm	Total bearing width over outer ring(s)
D_1	≈ 669.9 mm	Bore diameter loose flange ring
F	556 mm	Raceway diameter inner ring
b	22.3 mm	Width of annular groove
K	12 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 10.5 mm	Corner radius/chamfer inner ring
α	20 °	Chamfer angle inner ring
$r_{3,4}$	min. 4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	10 800 kN
Basic static load rating	C_0	23 200 kN
Fatigue load limit	P_u	1 760 kN
Calculation factor	k_r	600

Mass

Mass bearing	735 kg

BC4B 457969

Four-row cylindrical roller bearing

Four-row cylindrical roller bearings are designed to accommodate very heavy radial loads in combination with medium to high speeds. The SKF assortment includes many designs and variants, such as bearings with a cage and full complement bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

- Exceptional high radial load carrying capacity
- Low friction
- Long service life
- Low cross-sectional height

Overview

Dimensions

Bore diameter	633.334 mm
Outside diameter	960 mm
Width	680 mm

Performance

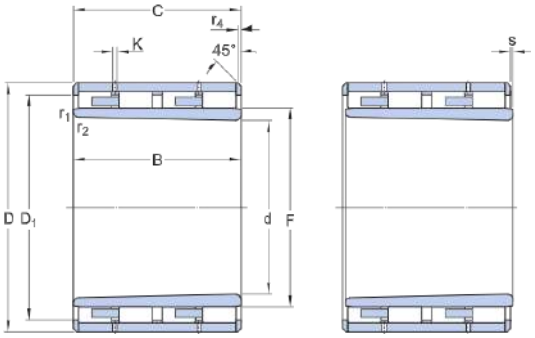
Basic dynamic load rating	16 800 kN
Basic static load rating	45 000 kN
Limiting speed	600 r/min
Reference speed	400 r/min

Properties

Bearing part	Complete bearing
Bore type	Tapered 1:12
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	Outer ring loose flange
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	5
Number of rows	4
Radial internal clearance	NSTD
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	BC4T.4/W20
Bore type	Tapered 1:12



Dimensions

d	633.334 mm	Bore diameter
D	960 mm	Outside diameter
B	680 mm	Total bearing width over inner ring(s)
C	680 mm	Total bearing width over outer ring(s)
D_1	≈ 845.5 mm	Bore diameter loose flange ring
F	745.73 mm	Raceway diameter inner ring
K	20 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 4 mm	Corner radius/chamfer inner ring
$r_{3,4}$	min. 6.4 mm	Chamfer dimension on the outer ring

Calculation data

Basic dynamic load rating	C	16 800 kN
Basic static load rating	C_0	45 000 kN
Fatigue load limit	P_u	3 150 kN
Calculation factor	k_r	680

Mass

Mass bearing	1 730 kg

NCF 18/500 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	620 mm
Width	56 mm

Performance

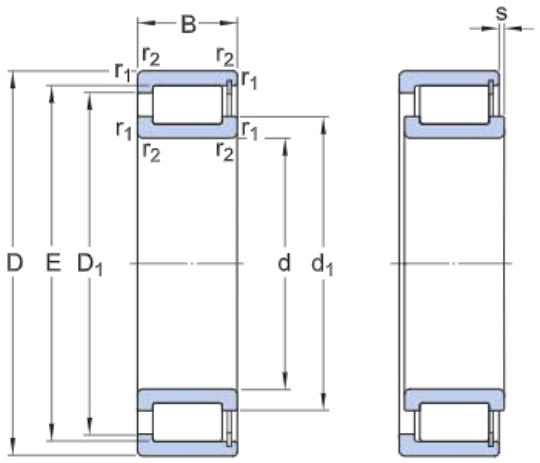
Basic dynamic load rating	952 kN
Basic static load rating	2 120 kN
Limiting speed	480 r/min
Reference speed	380 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

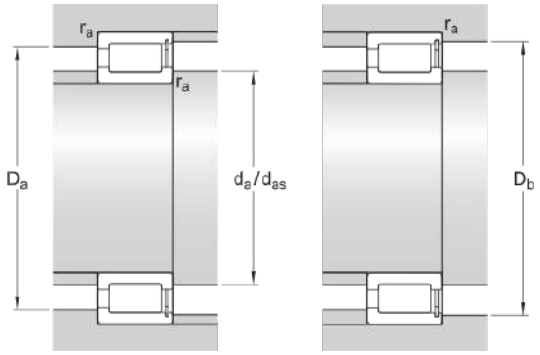
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	500 mm	Bore diameter
D	620 mm	Outside diameter
B	56 mm	Width
d_1	≈ 542 mm	Shoulder diameter inner ring
D_1	≈ 582 mm	Shoulder diameter outer ring
E	594 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 513 mm	Abutment diameter shaft
d_{as}	536 mm	Abutment diameter shaft
D_a	max. 607 mm	Abutment diameter housing
D_b	max. 607 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	952 kN

Basic static load rating	C_0	2 120 kN
Fatigue load limit	P_u	173 kN
Reference speed		380 r/min
Limiting speed		480 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	35.4 kg

NCF 18/530 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	530 mm
Outside diameter	650 mm
Width	56 mm

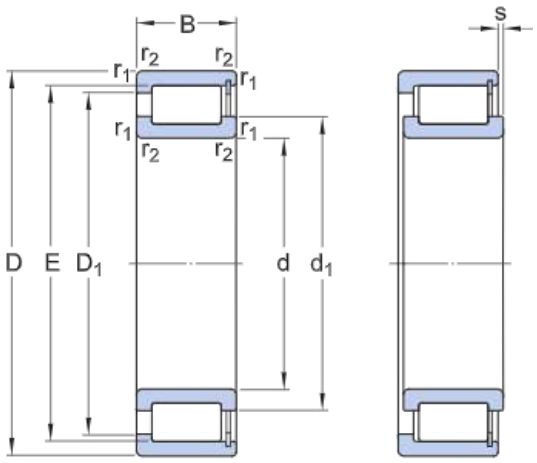
Performance

Basic dynamic load rating	990 kN
Basic static load rating	2 240 kN
Limiting speed	450 r/min
Reference speed	360 r/min

Properties

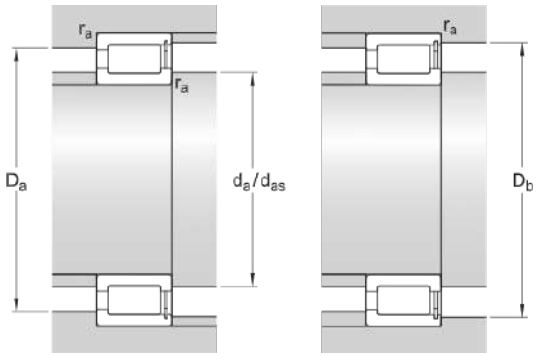
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	530 mm	Bore diameter
D	650 mm	Outside diameter
B	56 mm	Width
d_1	≈ 573 mm	Shoulder diameter inner ring
D_1	≈ 612 mm	Shoulder diameter outer ring
E	624.5 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 543 mm	Abutment diameter shaft
d_{as}	567 mm	Abutment diameter shaft
D_a	max. 637 mm	Abutment diameter housing
D_b	max. 637 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	990 kN

Basic static load rating	C_0	2 240 kN
Fatigue load limit	P_u	180 kN
Reference speed		360 r/min
Limiting speed		450 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	38.5 kg

NCF 18/560 V/HB1

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	560 mm
Outside diameter	680 mm
Width	56 mm

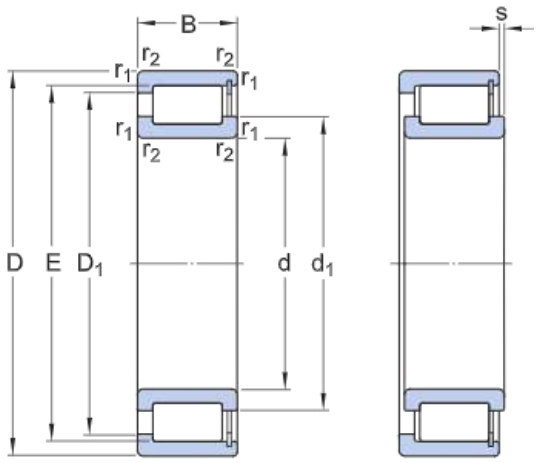
Performance

Basic dynamic load rating	1 020 kN
Basic static load rating	2 360 kN
Limiting speed	430 r/min
Reference speed	340 r/min

Properties

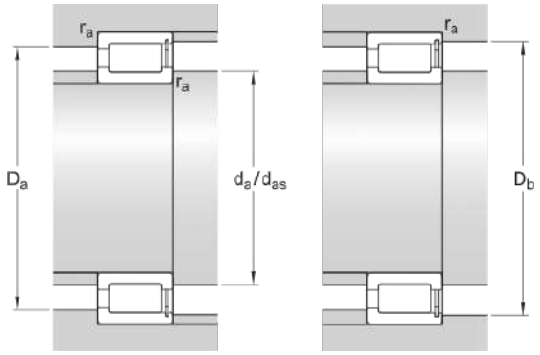
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	560 mm	Bore diameter
D	680 mm	Outside diameter
B	56 mm	Width
d_1	≈ 603 mm	Shoulder diameter inner ring
D_1	≈ 643 mm	Shoulder diameter outer ring
E	655 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 573 mm	Abutment diameter shaft
d_{as}	597 mm	Abutment diameter shaft
D_a	max. 667 mm	Abutment diameter housing
D_b	max. 667 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 020 kN

Basic static load rating	C_0	2 360 kN
Fatigue load limit	P_u	186 kN
Reference speed		340 r/min
Limiting speed		430 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	39 kg

NCF 18/600 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	600 mm
Outside diameter	730 mm
Width	60 mm

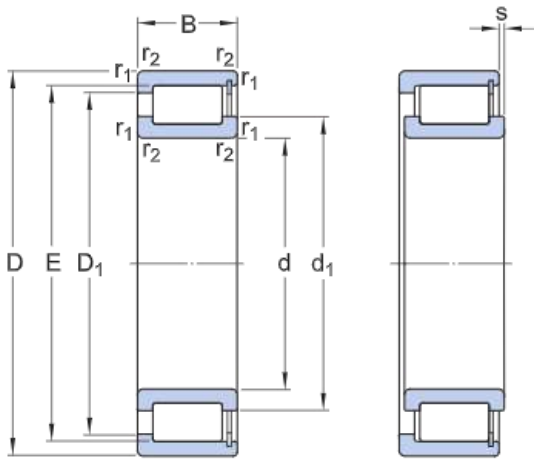
Performance

Basic dynamic load rating	1 050 kN
Basic static load rating	2 550 kN
Limiting speed	400 r/min
Reference speed	320 r/min

Properties

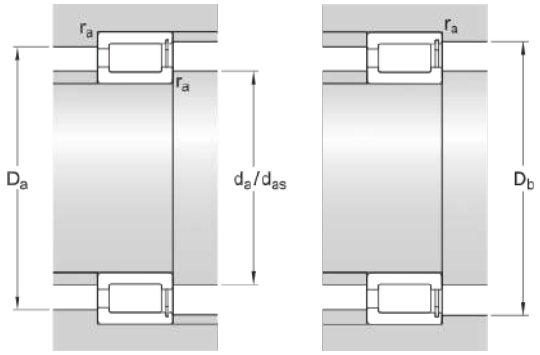
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	600 mm	Bore diameter
D	730 mm	Outside diameter
B	60 mm	Width
d_1	≈ 644 mm	Shoulder diameter inner ring
D_1	≈ 684 mm	Shoulder diameter outer ring
E	696 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 613 mm	Abutment diameter shaft
d_{as}	638 mm	Abutment diameter shaft
D_a	max. 717 mm	Abutment diameter housing
D_b	max. 717 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 050 kN

Basic static load rating	C_0	2 550 kN
Fatigue load limit	P_u	196 kN
Reference speed		320 r/min
Limiting speed		400 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	51.5 kg

NCF 18/630 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	630 mm
Outside diameter	780 mm
Width	69 mm

Performance

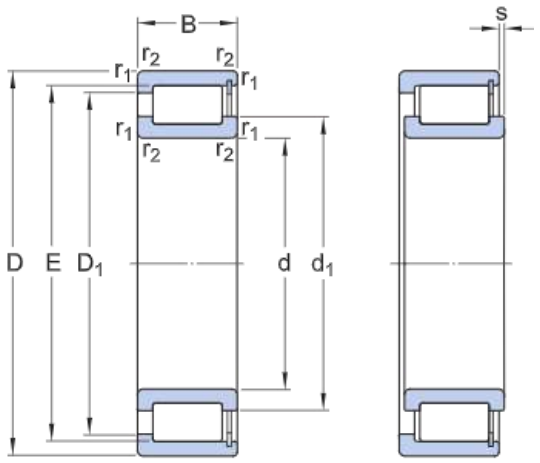
Basic dynamic load rating	1 250 kN
Basic static load rating	2 900 kN
Limiting speed	360 r/min
Reference speed	300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

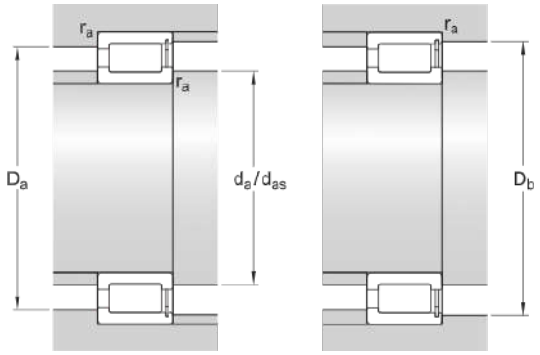
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	630 mm	Bore diameter
D	780 mm	Outside diameter
B	69 mm	Width
d_1	≈ 681 mm	Shoulder diameter inner ring
D_1	≈ 725 mm	Shoulder diameter outer ring
E	739 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 645 mm	Abutment diameter shaft
d_{as}	674 mm	Abutment diameter shaft
D_a	max. 765 mm	Abutment diameter housing
D_b	max. 765 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 250 kN

Basic static load rating	C_0	2 900 kN
Fatigue load limit	P_u	232 kN
Reference speed		300 r/min
Limiting speed		360 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	72.5 kg

NCF 18/670 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	670 mm
Outside diameter	820 mm
Width	69 mm

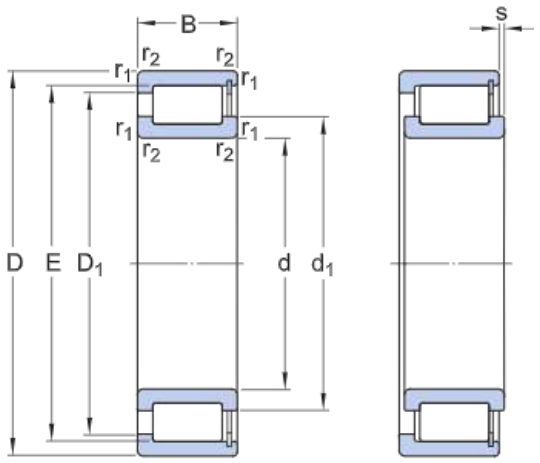
Performance

Basic dynamic load rating	1 300 kN
Basic static load rating	3 150 kN
Limiting speed	340 r/min
Reference speed	280 r/min

Properties

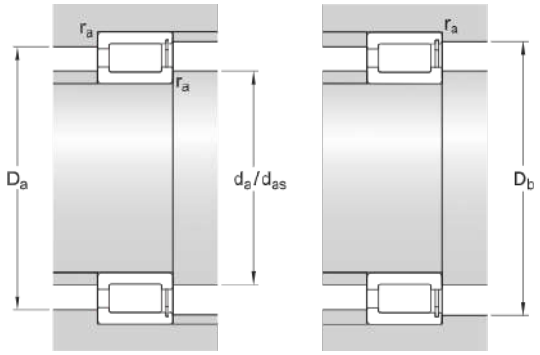
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	670 mm	Bore diameter
D	820 mm	Outside diameter
B	69 mm	Width
d_1	≈ 725 mm	Shoulder diameter inner ring
D_1	≈ 769 mm	Shoulder diameter outer ring
E	783 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 685 mm	Abutment diameter shaft
d_{as}	718 mm	Abutment diameter shaft
D_a	max. 805 mm	Abutment diameter housing
D_b	max. 805 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 300 kN

Basic static load rating	C_0	3 150 kN
Fatigue load limit	P_u	245 kN
Reference speed		280 r/min
Limiting speed		340 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	74 kg

NCF 18/710 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	710 mm
Outside diameter	870 mm
Width	74 mm

Performance

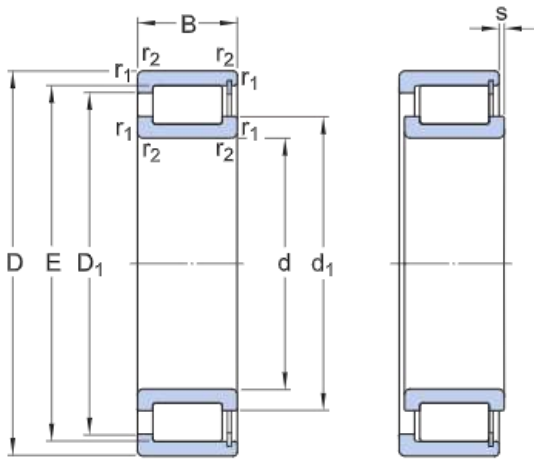
Basic dynamic load rating	1 540 kN
Basic static load rating	3 750 kN
Limiting speed	320 r/min
Reference speed	260 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

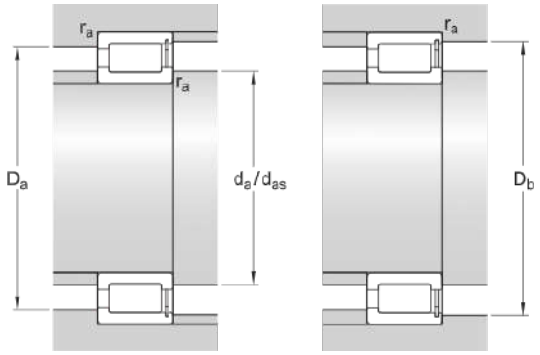
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	710 mm	Bore diameter
D	870 mm	Outside diameter
B	74 mm	Width
d_1	≈ 767 mm	Shoulder diameter inner ring
D_1	≈ 815 mm	Shoulder diameter outer ring
E	831 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 725 mm	Abutment diameter shaft
d_{as}	759 mm	Abutment diameter shaft
D_a	max. 855 mm	Abutment diameter housing
D_b	max. 855 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 540 kN

Basic static load rating	C_0	3 750 kN
Fatigue load limit	P_u	285 kN
Reference speed		260 r/min
Limiting speed		320 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	92.5 kg

NCF 18/750 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	750 mm
Outside diameter	920 mm
Width	78 mm

Performance

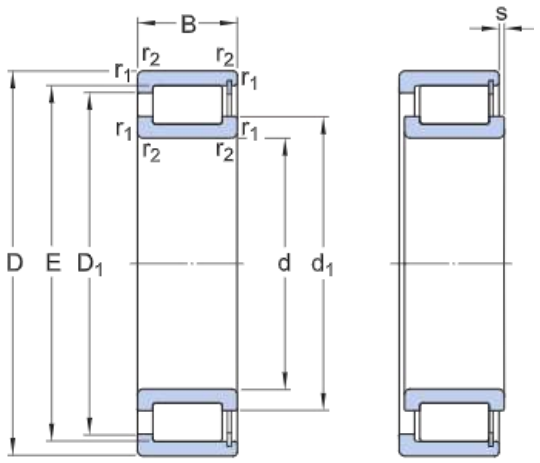
Basic dynamic load rating	1 760 kN
Basic static load rating	4 300 kN
Limiting speed	300 r/min
Reference speed	240 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

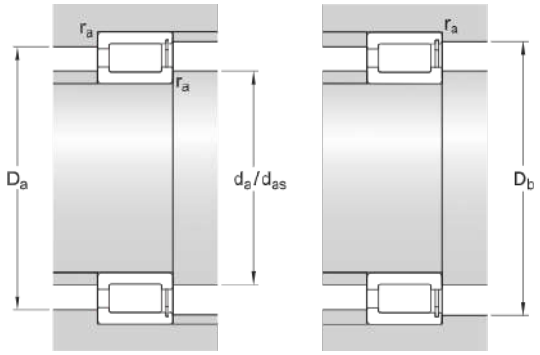
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	750 mm	Bore diameter
D	920 mm	Outside diameter
B	78 mm	Width
d_1	≈ 811 mm	Shoulder diameter inner ring
D_1	≈ 863 mm	Shoulder diameter outer ring
E	880 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 768 mm	Abutment diameter shaft
d_{as}	802 mm	Abutment diameter shaft
D_a	max. 902 mm	Abutment diameter housing
D_b	max. 902 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 760 kN

Basic static load rating	C_0	4 300 kN
Fatigue load limit	P_u	315 kN
Reference speed		240 r/min
Limiting speed		300 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	105 kg

NCF 18/800 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	800 mm
Outside diameter	980 mm
Width	82 mm

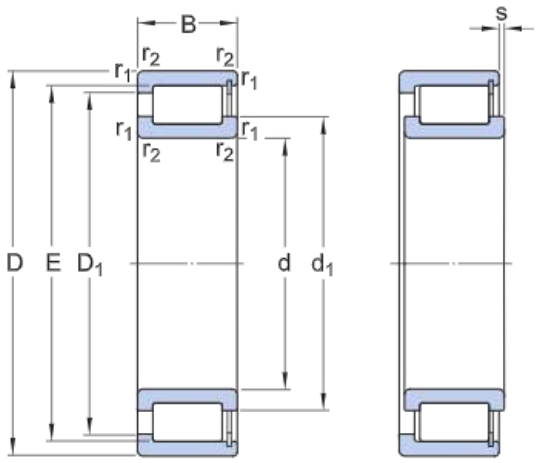
Performance

Basic dynamic load rating	1 940 kN
Basic static load rating	4 800 kN
Limiting speed	280 r/min
Reference speed	220 r/min

Properties

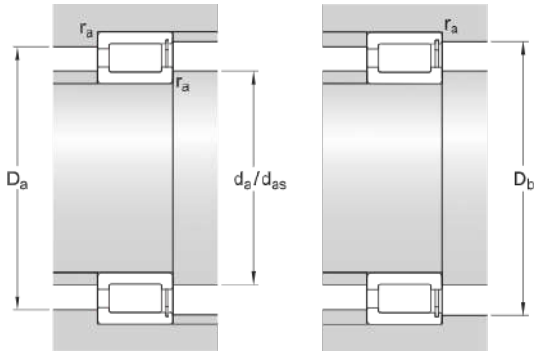
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	800 mm	Bore diameter
D	980 mm	Outside diameter
B	82 mm	Width
d_1	≈ 863 mm	Shoulder diameter inner ring
D_1	≈ 922 mm	Shoulder diameter outer ring
E	936 mm	Raceway diameter outer ring
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 818 mm	Abutment diameter shaft
d_{as}	855 mm	Abutment diameter shaft
D_a	max. 962 mm	Abutment diameter housing
D_b	max. 962 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 940 kN

Basic static load rating	C_0	4 800 kN
Fatigue load limit	P_u	345 kN
Reference speed		220 r/min
Limiting speed		280 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	126 kg

NCF 18/850 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	850 mm
Outside diameter	1 030 mm
Width	82 mm

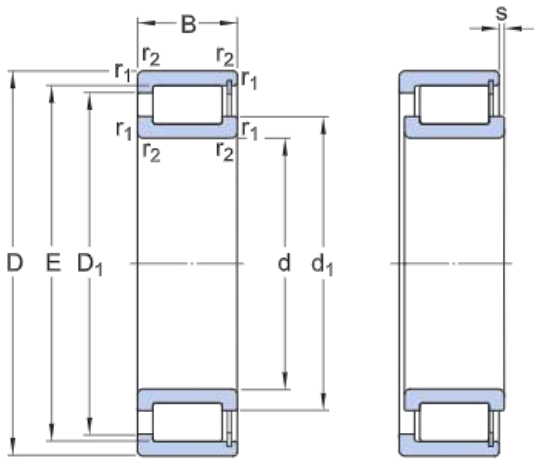
Performance

Basic dynamic load rating	2 050 kN
Basic static load rating	5 200 kN
Limiting speed	260 r/min
Reference speed	200 r/min

Properties

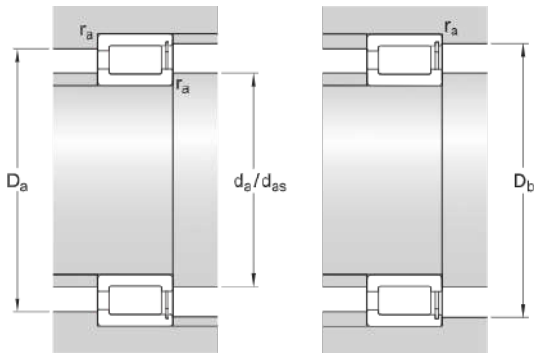
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	850 mm	Bore diameter
D	1 030 mm	Outside diameter
B	82 mm	Width
d_1	≈ 911 mm	Shoulder diameter inner ring
D_1	≈ 972 mm	Shoulder diameter outer ring
E	986 mm	Raceway diameter outer ring
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 868 mm	Abutment diameter shaft
d_{as}	903 mm	Abutment diameter shaft
D_a	max. 1 012 mm	Abutment diameter housing
D_b	max. 1 012 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 050 kN
Basic static load rating	C_0	5 200 kN
Fatigue load limit	P_u	375 kN
Reference speed		200 r/min
Limiting speed		260 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	131 kg

NCF 18/900 V/HB1

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	900 mm
Outside diameter	1 090 mm
Width	85 mm

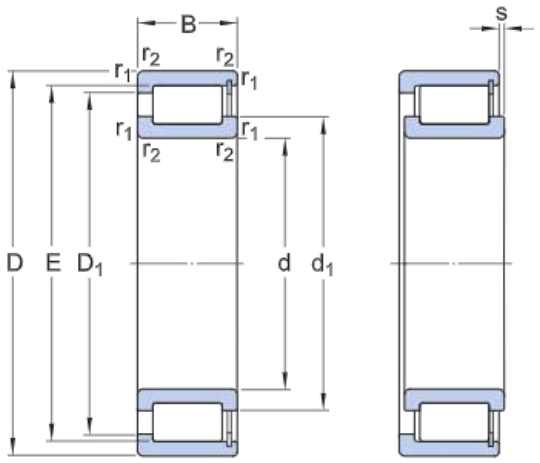
Performance

Basic dynamic load rating	2 240 kN
Basic static load rating	5 700 kN
Limiting speed	240 r/min
Reference speed	190 r/min

Properties

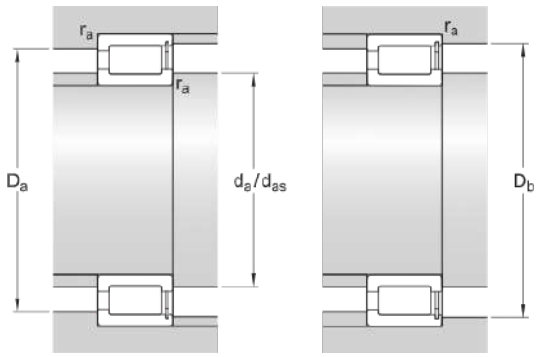
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	900 mm	Bore diameter
D	1 090 mm	Outside diameter
B	85 mm	Width
d_1	≈ 966 mm	Shoulder diameter inner ring
D_1	≈ 1 029 mm	Shoulder diameter outer ring
E	1 044 mm	Raceway diameter outer ring
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 918 mm	Abutment diameter shaft
d_{as}	957 mm	Abutment diameter shaft
D_a	max. 1 072 mm	Abutment diameter housing
D_b	max. 1 072 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 240 kN
Basic static load rating	C_0	5 700 kN
Fatigue load limit	P_u	405 kN
Reference speed		190 r/min
Limiting speed		240 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	154 kg

NCF 18/950 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	950 mm
Outside diameter	1 150 mm
Width	90 mm

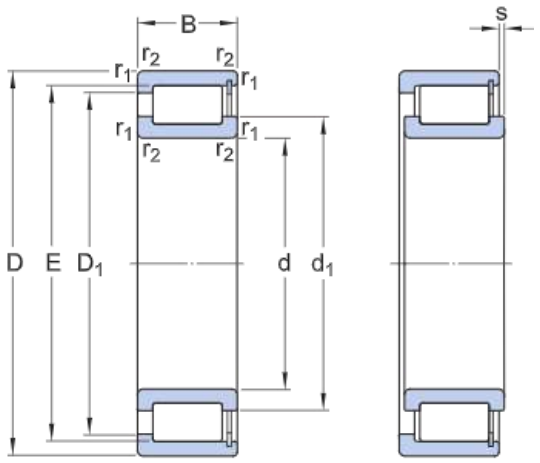
Performance

Basic dynamic load rating	2 420 kN
Basic static load rating	6 300 kN
Limiting speed	220 r/min
Reference speed	170 r/min

Properties

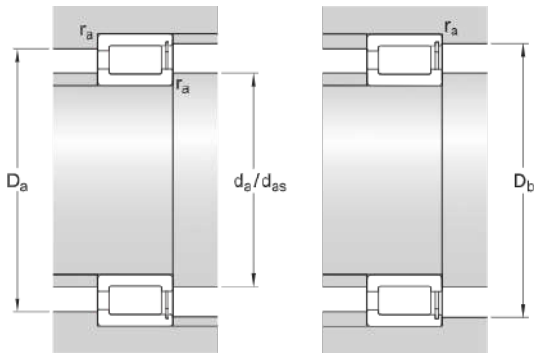
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	950 mm	Bore diameter
D	1 150 mm	Outside diameter
B	90 mm	Width
d_1	≈ 1 021 mm	Shoulder diameter inner ring
D_1	≈ 1 087 mm	Shoulder diameter outer ring
E	1 103 mm	Raceway diameter outer ring
s	max. 10 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 968 mm	Abutment diameter shaft
d_{as}	1 012 mm	Abutment diameter shaft
D_a	max. 1 132 mm	Abutment diameter housing
D_b	max. 1 132 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 420 kN
Basic static load rating	C_0	6 300 kN
Fatigue load limit	P_u	425 kN
Reference speed		170 r/min
Limiting speed		220 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	185 kg

NCF 18/1120 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	1 120 mm
Outside diameter	1 360 mm
Width	106 mm

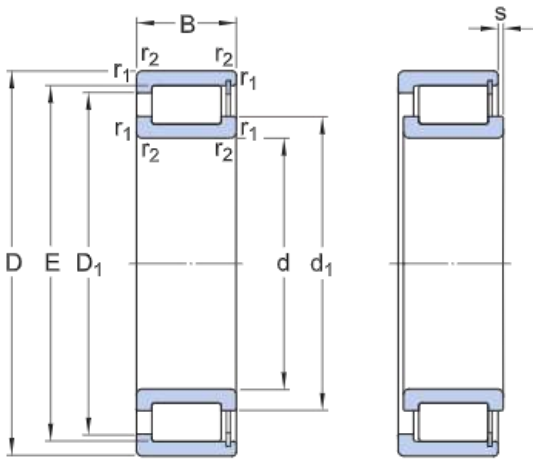
Performance

Basic dynamic load rating	3 740 kN
Basic static load rating	9 650 kN
Limiting speed	170 r/min
Reference speed	130 r/min

Properties

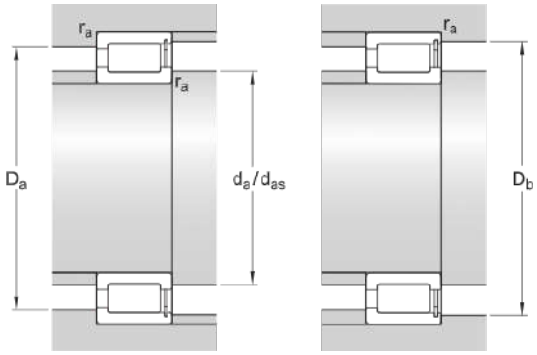
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	1 120 mm	Bore diameter
D	1 360 mm	Outside diameter
B	106 mm	Width
d_1	≈ 1 206 mm	Shoulder diameter inner ring
D_1	≈ 1 290 mm	Shoulder diameter outer ring
E	1 310 mm	Raceway diameter outer ring
s	max. 12 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 1 143 mm	Abutment diameter shaft
d_{as}	1 194 mm	Abutment diameter shaft
D_a	max. 1 337 mm	Abutment diameter housing
D_b	max. 1 337 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 740 kN
Basic static load rating	C_0	9 650 kN
Fatigue load limit	P_u	585 kN
Reference speed		130 r/min
Limiting speed		170 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	298 kg

NCF 28/500 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	620 mm
Width	72 mm

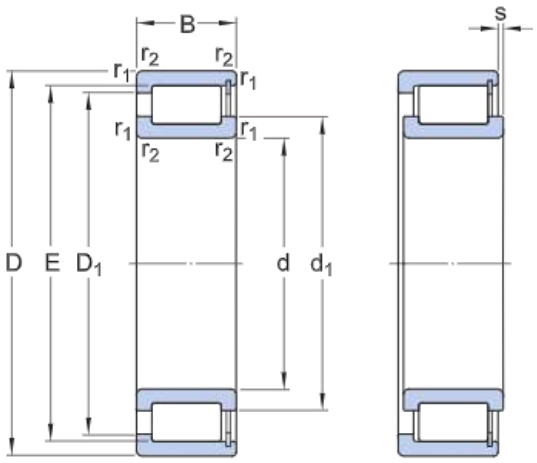
Performance

Basic dynamic load rating	1 340 kN
Basic static load rating	3 350 kN
Limiting speed	480 r/min
Reference speed	380 r/min

Properties

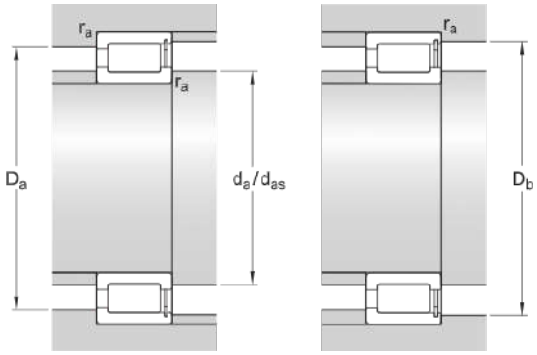
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	500 mm	Bore diameter
D	620 mm	Outside diameter
B	72 mm	Width
d_1	≈ 541 mm	Shoulder diameter inner ring
D_1	≈ 582 mm	Shoulder diameter outer ring
E	594 mm	Raceway diameter outer ring
s	max. 2.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 513 mm	Abutment diameter shaft
d_{as}	536 mm	Abutment diameter shaft
D_a	max. 607 mm	Abutment diameter housing
D_b	max. 607 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 340 kN
Basic static load rating	C_0	3 350 kN

Fatigue load limit	P_u	275 kN
Reference speed		380 r/min
Limiting speed		480 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	47 kg

NCF 28/530 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	530 mm
Outside diameter	650 mm
Width	72 mm

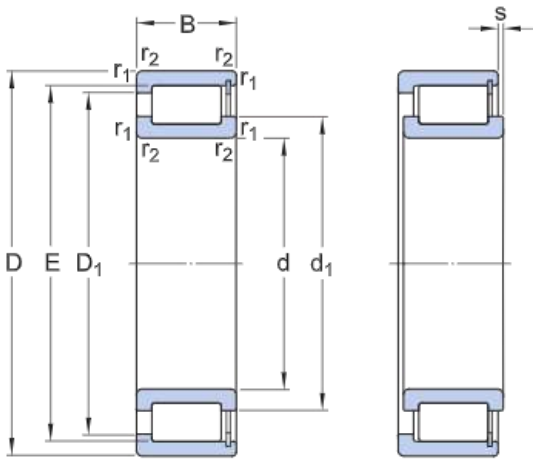
Performance

Basic dynamic load rating	1 400 kN
Basic static load rating	3 450 kN
Limiting speed	450 r/min
Reference speed	360 r/min

Properties

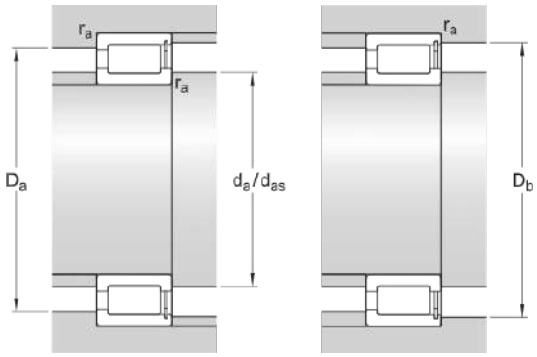
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	530 mm	Bore diameter
D	650 mm	Outside diameter
B	72 mm	Width
d_1	≈ 572 mm	Shoulder diameter inner ring
D_1	≈ 614 mm	Shoulder diameter outer ring
E	624.5 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 543 mm	Abutment diameter shaft
d_{as}	566 mm	Abutment diameter shaft
D_a	max. 637 mm	Abutment diameter housing
D_b	max. 637 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 400 kN

Basic static load rating	C_0	3 450 kN
Fatigue load limit	P_u	285 kN
Reference speed		360 r/min
Limiting speed		450 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	49.3 kg

NCF 28/560 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	560 mm
Outside diameter	680 mm
Width	72 mm

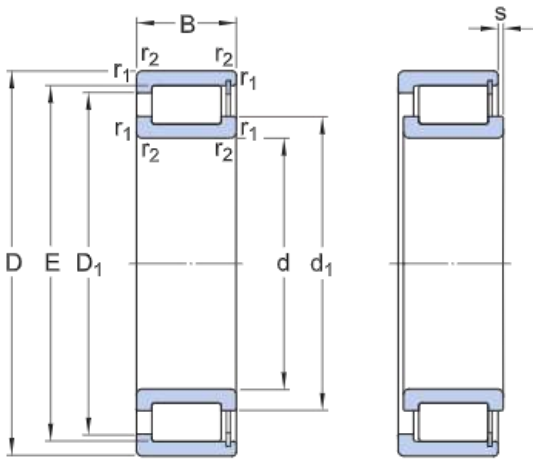
Performance

Basic dynamic load rating	1 420 kN
Basic static load rating	3 650 kN
Limiting speed	430 r/min
Reference speed	340 r/min

Properties

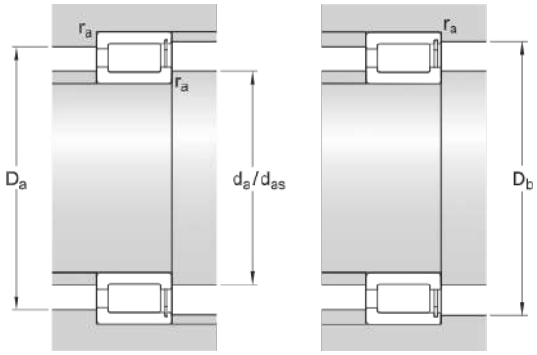
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	560 mm	Bore diameter
D	680 mm	Outside diameter
B	72 mm	Width
d_1	≈ 606 mm	Shoulder diameter inner ring
D_1	≈ 637 mm	Shoulder diameter outer ring
E	655 mm	Raceway diameter outer ring
s	max. 4.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 573 mm	Abutment diameter shaft
d_{as}	599 mm	Abutment diameter shaft
D_a	max. 667 mm	Abutment diameter housing
D_b	max. 667 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 420 kN
Basic static load rating	C_0	3 650 kN

Fatigue load limit	P_u	300 kN
Reference speed		340 r/min
Limiting speed		430 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	54 kg

NCF 28/600 V/HB1

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	600 mm
Outside diameter	730 mm
Width	78 mm

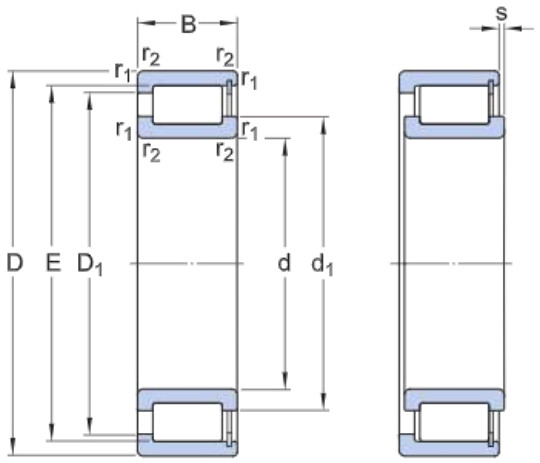
Performance

Basic dynamic load rating	1 570 kN
Basic static load rating	4 300 kN
Limiting speed	400 r/min
Reference speed	320 r/min

Properties

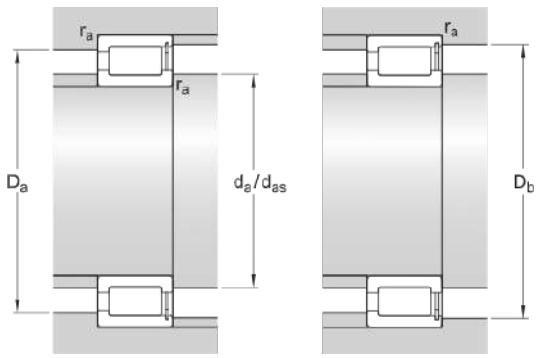
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	600 mm	Bore diameter
D	730 mm	Outside diameter
B	78 mm	Width
d_1	≈ 642 mm	Shoulder diameter inner ring
D_1	≈ 685 mm	Shoulder diameter outer ring
E	696 mm	Raceway diameter outer ring
s	max. 5.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 613 mm	Abutment diameter shaft
d_{as}	637 mm	Abutment diameter shaft
D_a	max. 717 mm	Abutment diameter housing
D_b	max. 717 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 570 kN
Basic static load rating	C_0	4 300 kN

Fatigue load limit	P_u	340 kN
Reference speed		320 r/min
Limiting speed		400 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	67.5 kg

NCF 28/630 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	630 mm
Outside diameter	780 mm
Width	88 mm

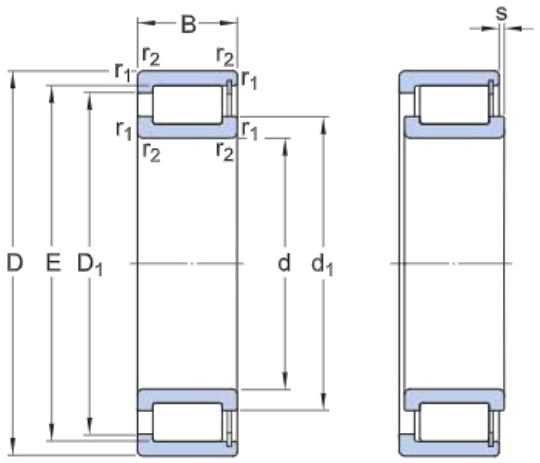
Performance

Basic dynamic load rating	1 940 kN
Basic static load rating	5 000 kN
Limiting speed	360 r/min
Reference speed	300 r/min

Properties

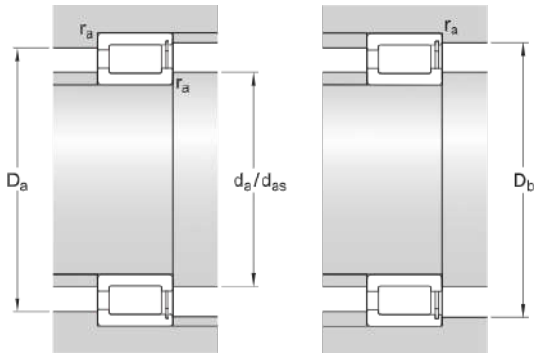
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	630 mm	Bore diameter
D	780 mm	Outside diameter
B	88 mm	Width
d_1	≈ 680 mm	Shoulder diameter inner ring
D_1	≈ 728 mm	Shoulder diameter outer ring
E	741.4 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 645 mm	Abutment diameter shaft
d_{as}	674 mm	Abutment diameter shaft
D_a	max. 765 mm	Abutment diameter housing
D_b	max. 765 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 940 kN

Basic static load rating	C_0	5 000 kN
Fatigue load limit	P_u	390 kN
Reference speed		300 r/min
Limiting speed		360 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	92.2 kg

NCF 28/670 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	670 mm
Outside diameter	820 mm
Width	88 mm

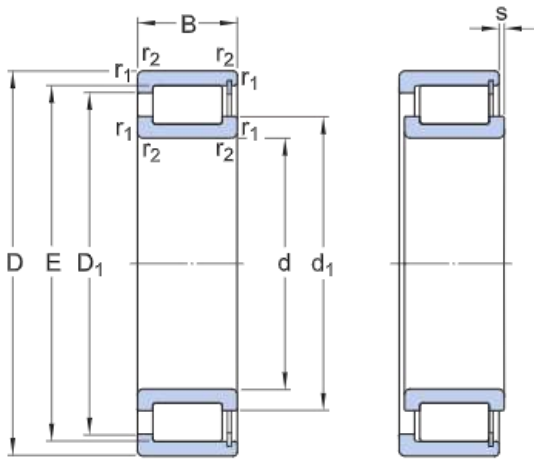
Performance

Basic dynamic load rating	1 940 kN
Basic static load rating	5 300 kN
Limiting speed	340 r/min
Reference speed	280 r/min

Properties

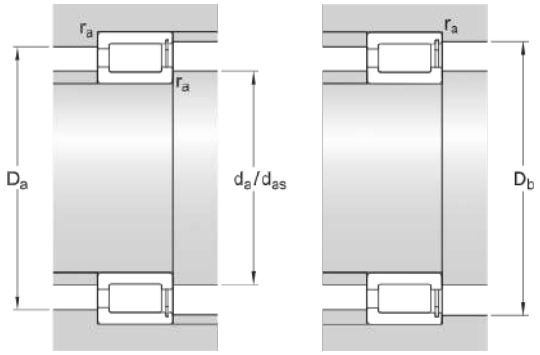
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	670 mm	Bore diameter
D	820 mm	Outside diameter
B	88 mm	Width
d_1	≈ 724 mm	Shoulder diameter inner ring
D_1	≈ 772 mm	Shoulder diameter outer ring
E	783 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 685 mm	Abutment diameter shaft
d_{as}	718 mm	Abutment diameter shaft
D_a	max. 805 mm	Abutment diameter housing
D_b	max. 805 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 940 kN

Basic static load rating	C_0	5 300 kN
Fatigue load limit	P_u	415 kN
Reference speed		280 r/min
Limiting speed		340 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	98 kg

NCF 28/710 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	710 mm
Outside diameter	870 mm
Width	95 mm

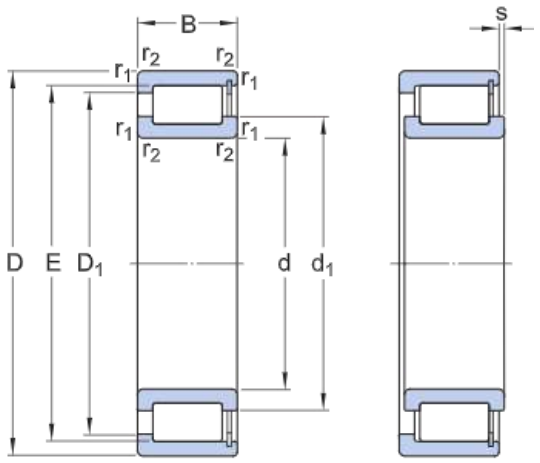
Performance

Basic dynamic load rating	2 330 kN
Basic static load rating	6 300 kN
Limiting speed	320 r/min
Reference speed	260 r/min

Properties

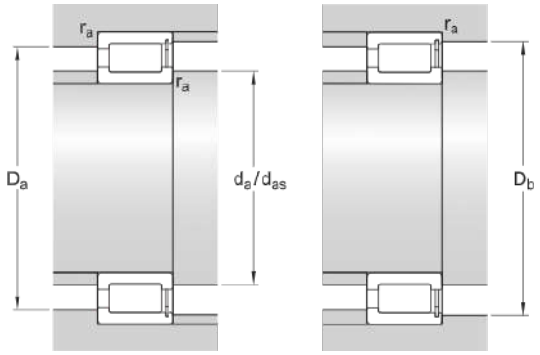
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	710 mm	Bore diameter
D	870 mm	Outside diameter
B	95 mm	Width
d_1	≈ 766 mm	Shoulder diameter inner ring
D_1	≈ 818 mm	Shoulder diameter outer ring
E	831 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 725 mm	Abutment diameter shaft
d_{as}	759 mm	Abutment diameter shaft
D_a	max. 855 mm	Abutment diameter housing
D_b	max. 855 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 330 kN

Basic static load rating	C_0	6 300 kN
Fatigue load limit	P_u	480 kN
Reference speed		260 r/min
Limiting speed		320 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	115 kg

NCF 28/750 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	750 mm
Outside diameter	920 mm
Width	100 mm

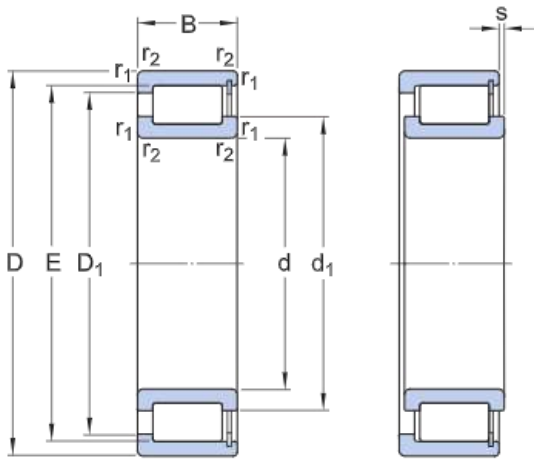
Performance

Basic dynamic load rating	2 640 kN
Basic static load rating	6 950 kN
Limiting speed	300 r/min
Reference speed	240 r/min

Properties

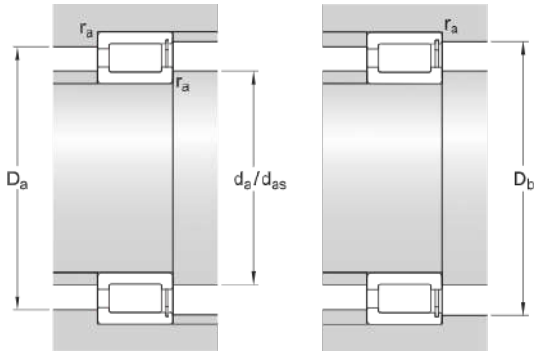
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	750 mm	Bore diameter
D	920 mm	Outside diameter
B	100 mm	Width
d_1	≈ 810 mm	Shoulder diameter inner ring
D_1	≈ 867 mm	Shoulder diameter outer ring
E	878 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 768 mm	Abutment diameter shaft
d_{as}	799 mm	Abutment diameter shaft
D_a	max. 902 mm	Abutment diameter housing
D_b	max. 902 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 640 kN

Basic static load rating	C_0	6 950 kN
Fatigue load limit	P_u	520 kN
Reference speed		240 r/min
Limiting speed		300 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	139 kg

NCF 28/800 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	800 mm
Outside diameter	980 mm
Width	106 mm

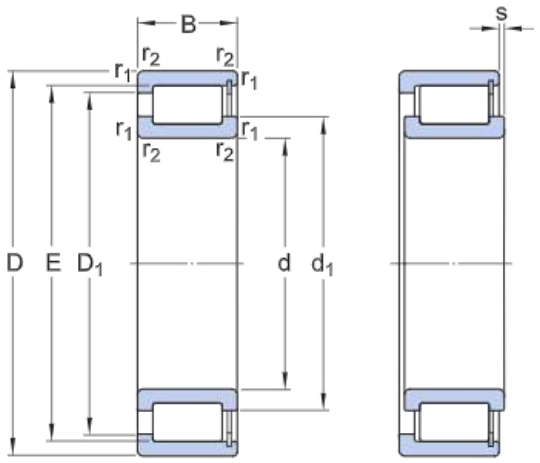
Performance

Basic dynamic load rating	2 750 kN
Basic static load rating	7 500 kN
Limiting speed	280 r/min
Reference speed	220 r/min

Properties

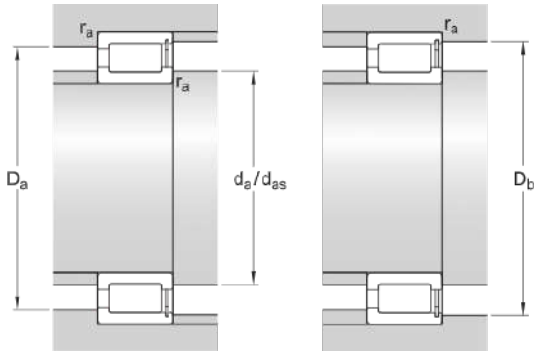
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	800 mm	Bore diameter
D	980 mm	Outside diameter
B	106 mm	Width
d_1	≈ 863 mm	Shoulder diameter inner ring
D_1	≈ 922 mm	Shoulder diameter outer ring
E	936 mm	Raceway diameter outer ring
s	max. 10 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 818 mm	Abutment diameter shaft
d_{as}	855 mm	Abutment diameter shaft
D_a	max. 962 mm	Abutment diameter housing
D_b	max. 962 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 750 kN
Basic static load rating	C_0	7 500 kN

Fatigue load limit	P_u	550 kN
Reference speed		220 r/min
Limiting speed		280 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	169 kg

NCF 28/900 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	900 mm
Outside diameter	1 090 mm
Width	112 mm

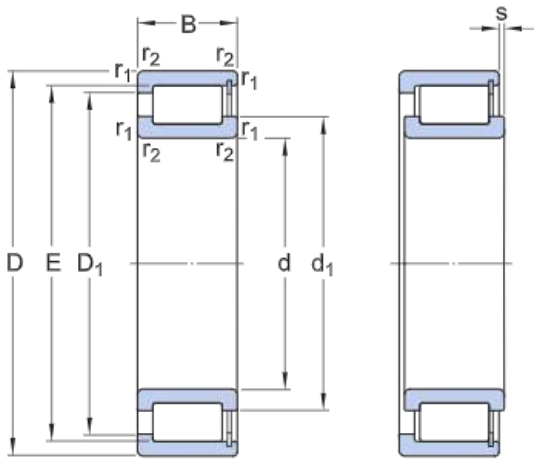
Performance

Basic dynamic load rating	3 190 kN
Basic static load rating	9 150 kN
Limiting speed	240 r/min
Reference speed	190 r/min

Properties

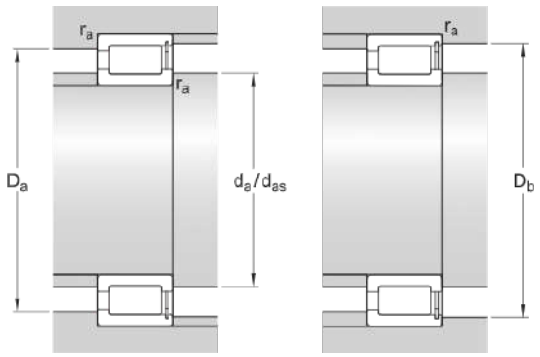
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	900 mm	Bore diameter
D	1 090 mm	Outside diameter
B	112 mm	Width
d_1	≈ 966 mm	Shoulder diameter inner ring
D_1	≈ 1 029 mm	Shoulder diameter outer ring
E	1 044 mm	Raceway diameter outer ring
s	max. 10 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 918 mm	Abutment diameter shaft
d_{as}	957 mm	Abutment diameter shaft
D_a	max. 1 072 mm	Abutment diameter housing
D_b	max. 1 072 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 190 kN
Basic static load rating	C_0	9 150 kN
Fatigue load limit	P_u	655 kN
Reference speed		190 r/min
Limiting speed		240 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	210 kg

NCF 28/950 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	950 mm
Outside diameter	1 150 mm
Width	118 mm

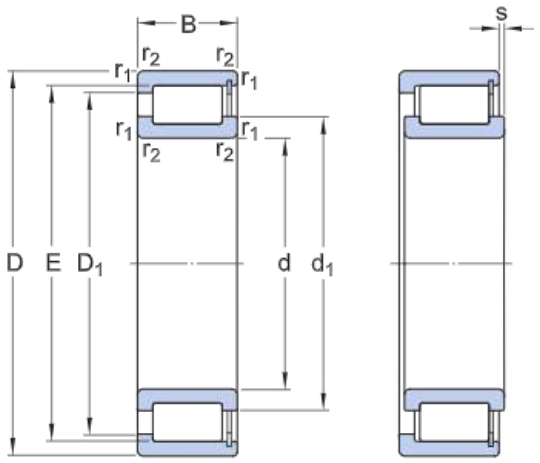
Performance

Basic dynamic load rating	3 410 kN
Basic static load rating	9 800 kN
Limiting speed	220 r/min
Reference speed	170 r/min

Properties

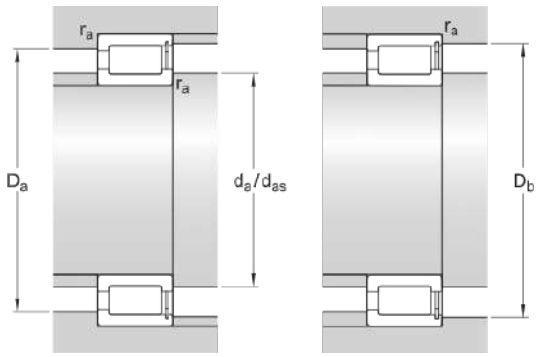
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	950 mm	Bore diameter
D	1 150 mm	Outside diameter
B	118 mm	Width
d_1	≈ 1 021 mm	Shoulder diameter inner ring
D_1	≈ 1 087 mm	Shoulder diameter outer ring
E	1 103 mm	Raceway diameter outer ring
s	max. 12 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 968 mm	Abutment diameter shaft
d_{as}	1 012 mm	Abutment diameter shaft
D_a	max. 1 132 mm	Abutment diameter housing
D_b	max. 1 132 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 410 kN
Basic static load rating	C_0	9 800 kN
Fatigue load limit	P_u	655 kN
Reference speed		170 r/min
Limiting speed		220 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	240 kg

NCF 29/500 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	670 mm
Width	100 mm

Performance

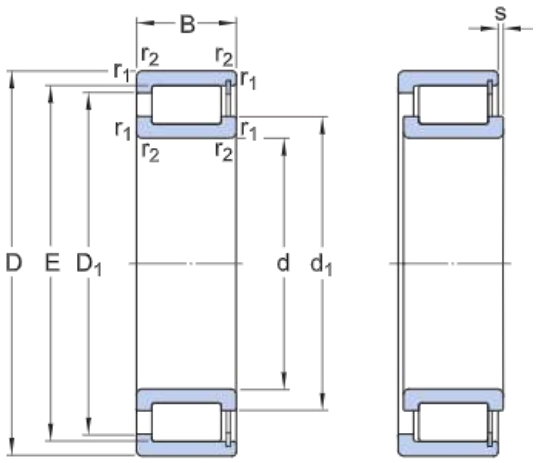
Basic dynamic load rating	2 380 kN
Basic static load rating	5 300 kN
Limiting speed	450 r/min
Reference speed	360 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

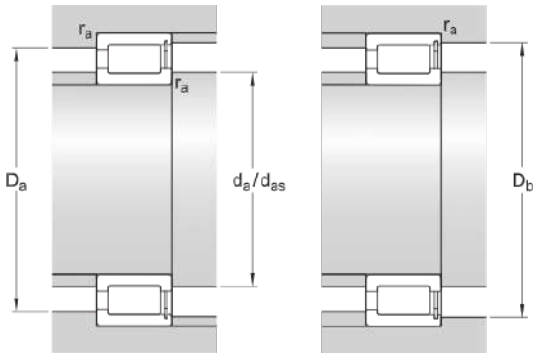
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	500 mm	Bore diameter
D	670 mm	Outside diameter
B	100 mm	Width
d_1	≈ 553 mm	Shoulder diameter inner ring
D_1	≈ 611 mm	Shoulder diameter outer ring
E	634.5 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 518 mm	Abutment diameter shaft
d_{as}	544 mm	Abutment diameter shaft
D_a	max. 652 mm	Abutment diameter housing
D_b	max. 652 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 380 kN

Basic static load rating	C_0	5 300 kN
Fatigue load limit	P_u	430 kN
Reference speed		360 r/min
Limiting speed		450 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	100 kg

NCF 29/530 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	530 mm
Outside diameter	710 mm
Width	106 mm

Performance

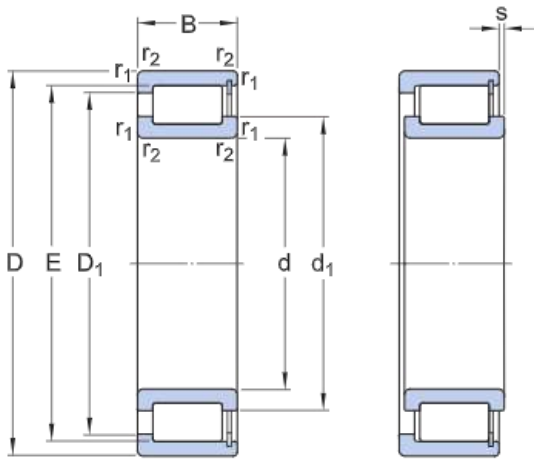
Basic dynamic load rating	2 700 kN
Basic static load rating	6 000 kN
Limiting speed	430 r/min
Reference speed	340 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

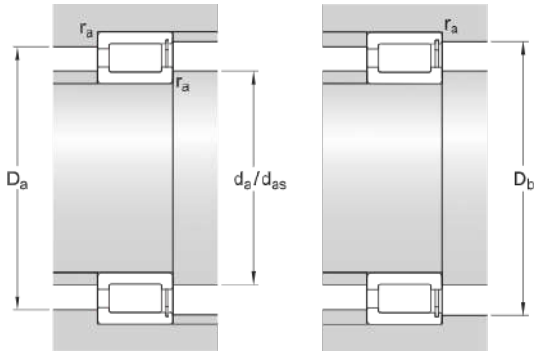
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	530 mm	Bore diameter
D	710 mm	Outside diameter
B	106 mm	Width
d_1	≈ 598 mm	Shoulder diameter inner ring
D_1	≈ 648 mm	Shoulder diameter outer ring
E	673 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 548 mm	Abutment diameter shaft
d_{as}	587 mm	Abutment diameter shaft
D_a	max. 692 mm	Abutment diameter housing
D_b	max. 692 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 700 kN

Basic static load rating	C_0	6 000 kN
Fatigue load limit	P_u	465 kN
Reference speed		340 r/min
Limiting speed		430 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	120 kg

NCF 29/560 V/HB1

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	560 mm
Outside diameter	750 mm
Width	112 mm

Performance

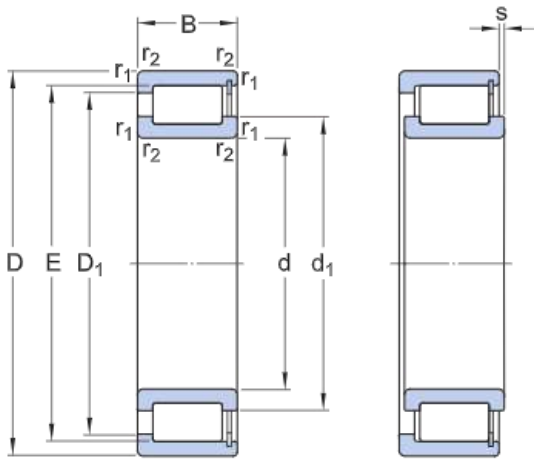
Basic dynamic load rating	3 030 kN
Basic static load rating	6 700 kN
Limiting speed	400 r/min
Reference speed	320 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

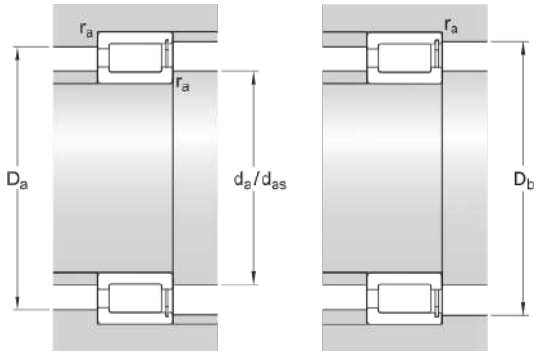
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	560 mm	Bore diameter
D	750 mm	Outside diameter
B	112 mm	Width
d_1	≈ 628 mm	Shoulder diameter inner ring
D_1	≈ 682 mm	Shoulder diameter outer ring
E	709 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 578 mm	Abutment diameter shaft
d_{as}	615 mm	Abutment diameter shaft
D_a	max. 732 mm	Abutment diameter housing
D_b	max. 732 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 030 kN

Basic static load rating	C_0	6 700 kN
Fatigue load limit	P_u	490 kN
Reference speed		320 r/min
Limiting speed		400 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	140 kg

NCF 29/600 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	600 mm
Outside diameter	800 mm
Width	118 mm

Performance

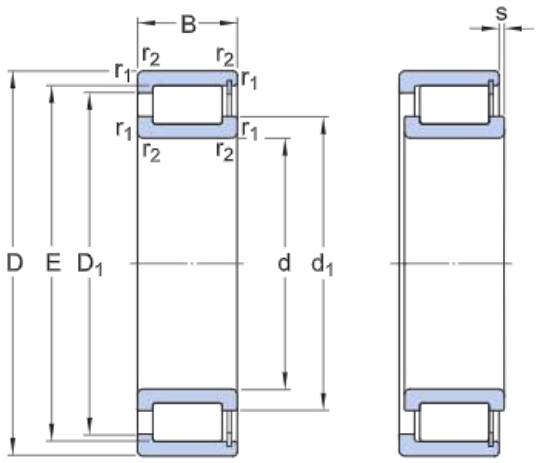
Basic dynamic load rating	3 360 kN
Basic static load rating	7 500 kN
Limiting speed	380 r/min
Reference speed	300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

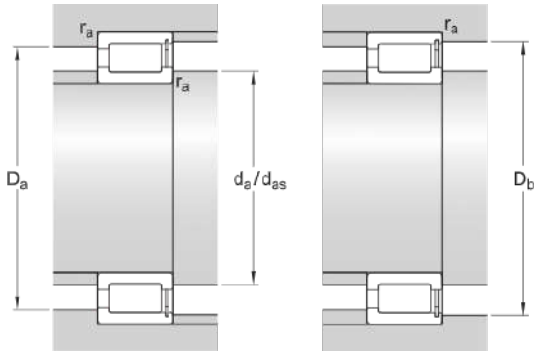
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	600 mm	Bore diameter
D	800 mm	Outside diameter
B	118 mm	Width
d_1	≈ 662 mm	Shoulder diameter inner ring
D_1	≈ 726 mm	Shoulder diameter outer ring
E	754 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 618 mm	Abutment diameter shaft
d_{as}	652 mm	Abutment diameter shaft
D_a	max. 782 mm	Abutment diameter housing
D_b	max. 782 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 360 kN

Basic static load rating	C_0	7 500 kN
Fatigue load limit	P_u	550 kN
Reference speed		300 r/min
Limiting speed		380 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	165 kg

NCF 29/630 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	630 mm
Outside diameter	850 mm
Width	128 mm

Performance

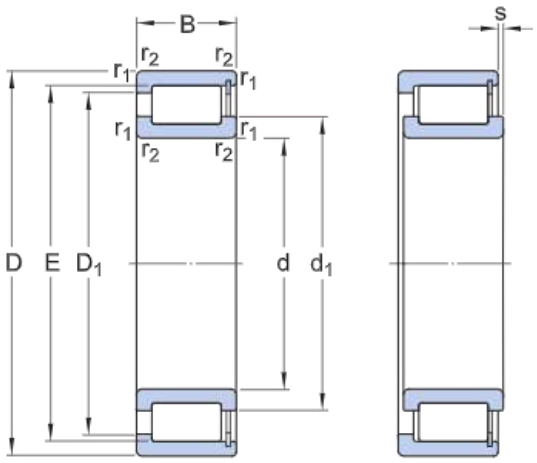
Basic dynamic load rating	3 740 kN
Basic static load rating	8 650 kN
Limiting speed	340 r/min
Reference speed	280 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

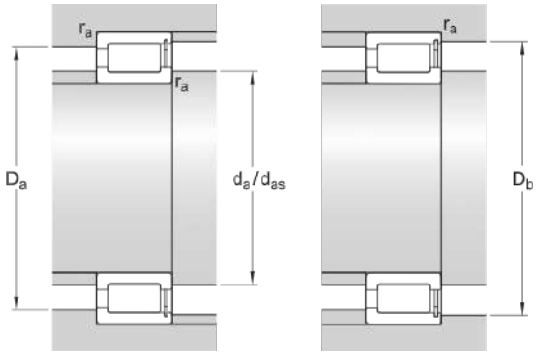
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	630 mm	Bore diameter
D	850 mm	Outside diameter
B	128 mm	Width
d_1	≈ 709 mm	Shoulder diameter inner ring
D_1	≈ 788 mm	Shoulder diameter outer ring
E	807 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 653 mm	Abutment diameter shaft
d_{as}	698 mm	Abutment diameter shaft
D_a	max. 827 mm	Abutment diameter housing
D_b	max. 827 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 740 kN

Basic static load rating	C_0	8 650 kN
Fatigue load limit	P_u	610 kN
Reference speed		280 r/min
Limiting speed		340 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	205 kg

NCF 29/670 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	670 mm
Outside diameter	900 mm
Width	136 mm

Performance

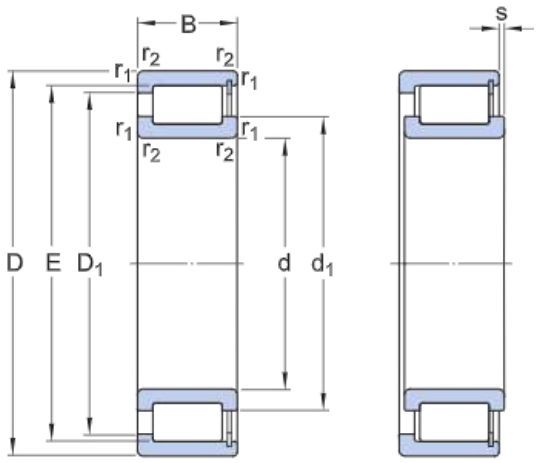
Basic dynamic load rating	3 910 kN
Basic static load rating	9 000 kN
Limiting speed	320 r/min
Reference speed	260 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

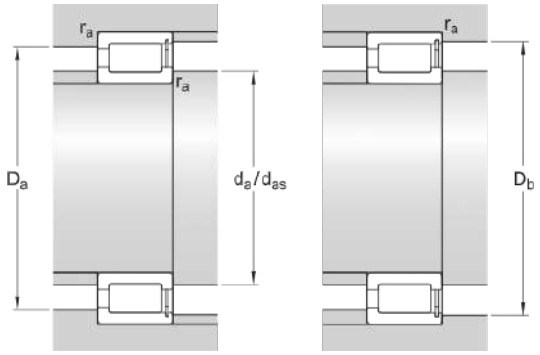
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	670 mm	Bore diameter
D	900 mm	Outside diameter
B	136 mm	Width
d_1	≈ 748 mm	Shoulder diameter inner ring
D_1	≈ 827 mm	Shoulder diameter outer ring
E	846 mm	Raceway diameter outer ring
s	max. 10 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 693 mm	Abutment diameter shaft
d_{as}	737 mm	Abutment diameter shaft
D_a	max. 877 mm	Abutment diameter housing
D_b	max. 877 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 910 kN
Basic static load rating	C_0	9 000 kN

Fatigue load limit	P_u	630 kN
Reference speed		260 r/min
Limiting speed		320 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	245 kg

NCF 29/710 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	710 mm
Outside diameter	950 mm
Width	140 mm

Performance

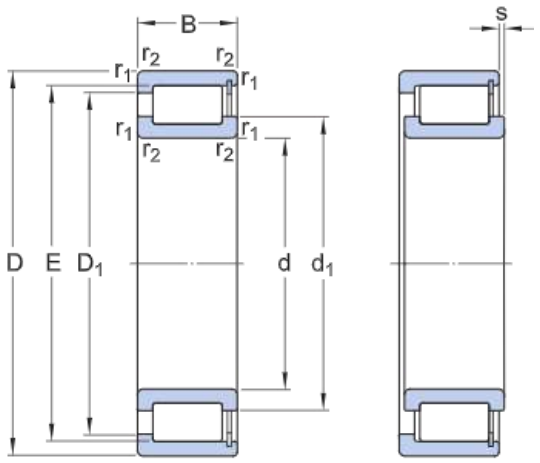
Basic dynamic load rating	4 290 kN
Basic static load rating	10 000 kN
Limiting speed	300 r/min
Reference speed	240 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

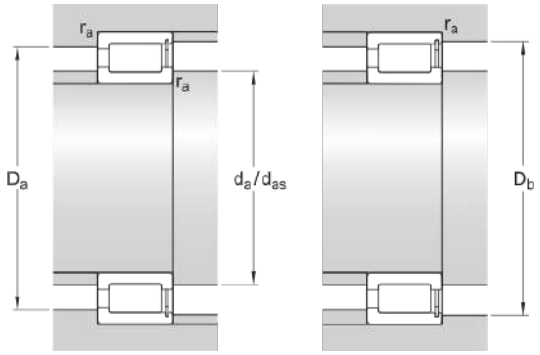
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	710 mm	Bore diameter
D	950 mm	Outside diameter
B	140 mm	Width
d_1	≈ 790 mm	Shoulder diameter inner ring
D_1	≈ 876 mm	Shoulder diameter outer ring
E	896 mm	Raceway diameter outer ring
s	max. 10 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 733 mm	Abutment diameter shaft
d_{as}	761 mm	Abutment diameter shaft
D_a	max. 927 mm	Abutment diameter housing
D_b	max. 927 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 290 kN
Basic static load rating	C_0	10 000 kN

Fatigue load limit	P_u	695 kN
Reference speed		240 r/min
Limiting speed		300 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	275 kg

NCF 29/750 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	750 mm
Outside diameter	1 000 mm
Width	145 mm

Performance

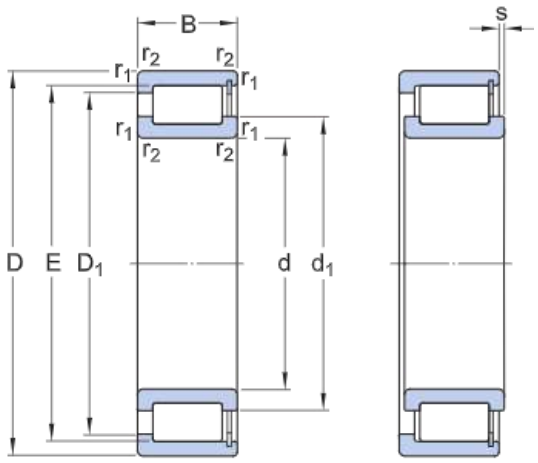
Basic dynamic load rating	4 460 kN
Basic static load rating	10 600 kN
Limiting speed	280 r/min
Reference speed	220 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

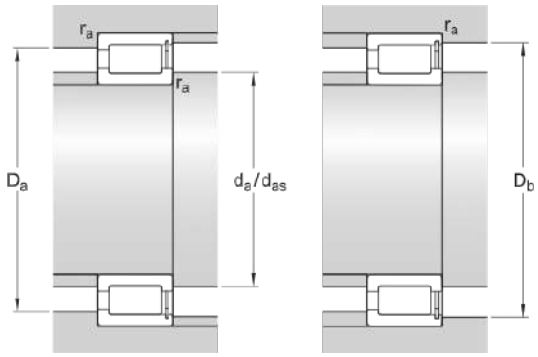
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	750 mm	Bore diameter
D	1 000 mm	Outside diameter
B	145 mm	Width
d_1	≈ 832 mm	Shoulder diameter inner ring
D_1	≈ 918 mm	Shoulder diameter outer ring
E	938 mm	Raceway diameter outer ring
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 773 mm	Abutment diameter shaft
d_{as}	820 mm	Abutment diameter shaft
D_a	max. 977 mm	Abutment diameter housing
D_b	max. 977 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 460 kN

Basic static load rating	C_0	10 600 kN
Fatigue load limit	P_u	710 kN
Reference speed		220 r/min
Limiting speed		280 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	313 kg

NCF 29/800 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	800 mm
Outside diameter	1 060 mm
Width	150 mm

Performance

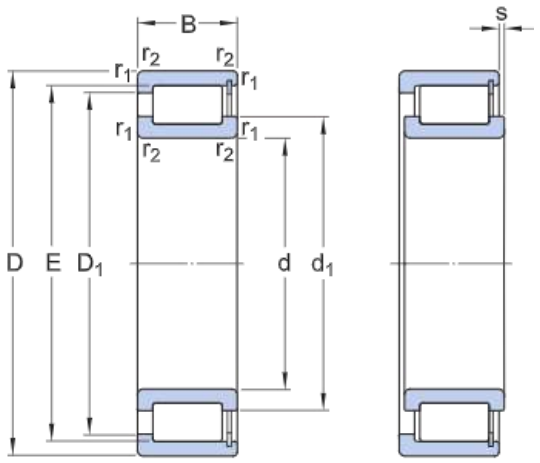
Basic dynamic load rating	4 950 kN
Basic static load rating	12 000 kN
Limiting speed	260 r/min
Reference speed	200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

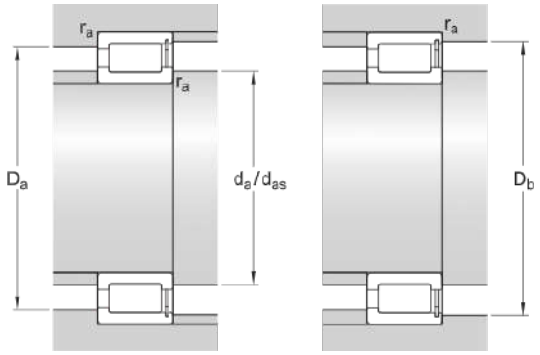
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	800 mm	Bore diameter
D	1 060 mm	Outside diameter
B	150 mm	Width
d_1	≈ 891 mm	Shoulder diameter inner ring
D_1	≈ 981 mm	Shoulder diameter outer ring
E	1 002 mm	Raceway diameter outer ring
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 823 mm	Abutment diameter shaft
d_{as}	860 mm	Abutment diameter shaft
D_a	max. 1 037 mm	Abutment diameter housing
D_b	max. 1 037 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	4 950 kN

Basic static load rating	C_0	12 000 kN
Fatigue load limit	P_u	800 kN
Reference speed		200 r/min
Limiting speed		260 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	359 kg

NCF 29/850 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	850 mm
Outside diameter	1 120 mm
Width	155 mm

Performance

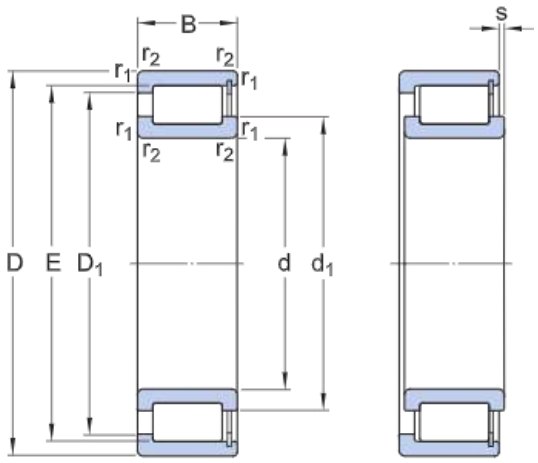
Basic dynamic load rating	5 230 kN
Basic static load rating	12 700 kN
Limiting speed	240 r/min
Reference speed	190 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

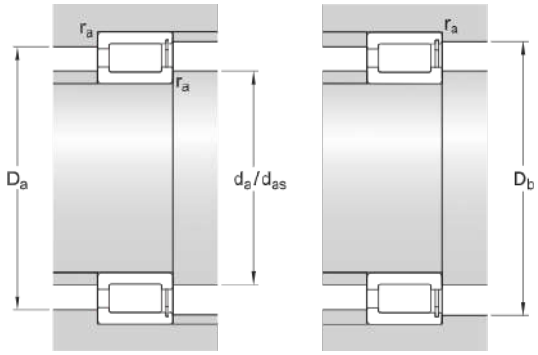
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	850 mm	Bore diameter
D	1 120 mm	Outside diameter
B	155 mm	Width
d_1	≈ 943 mm	Shoulder diameter inner ring
D_1	≈ 1 039 mm	Shoulder diameter outer ring
E	1 061 mm	Raceway diameter outer ring
s	max. 13 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 873 mm	Abutment diameter shaft
d_{as}	914 mm	Abutment diameter shaft
D_a	max. 1 097 mm	Abutment diameter housing
D_b	max. 1 097 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	5 230 kN
Basic static load rating	C_0	12 700 kN
Fatigue load limit	P_u	830 kN
Reference speed		190 r/min
Limiting speed		240 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	406 kg

NCF 29/900 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	900 mm
Outside diameter	1 180 mm
Width	165 mm

Performance

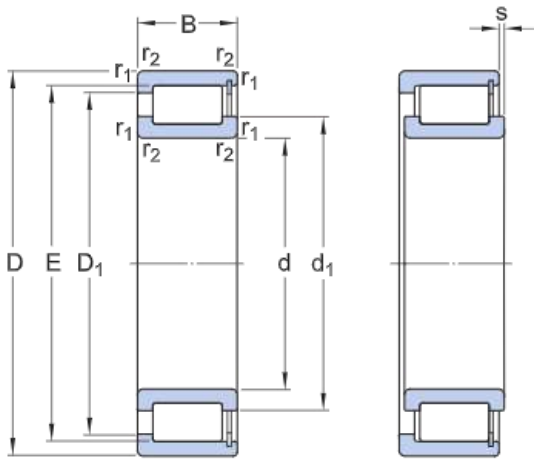
Basic dynamic load rating	5 940 kN
Basic static load rating	14 600 kN
Limiting speed	220 r/min
Reference speed	170 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

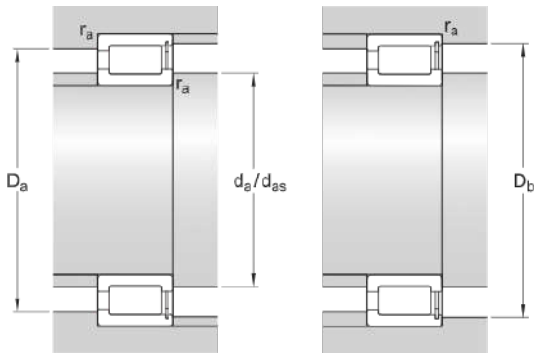
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	900 mm	Bore diameter
D	1 180 mm	Outside diameter
B	165 mm	Width
d_1	≈ 996 mm	Shoulder diameter inner ring
D_1	≈ 1 096 mm	Shoulder diameter outer ring
E	1 120 mm	Raceway diameter outer ring
s	max. 13 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 923 mm	Abutment diameter shaft
d_{as}	982 mm	Abutment diameter shaft
D_a	max. 1 127 mm	Abutment diameter housing
D_b	max. 1 127 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	5 940 kN
Basic static load rating	C_0	14 600 kN
Fatigue load limit	P_u	950 kN
Reference speed		170 r/min
Limiting speed		220 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	472 kg

NCF 29/950 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	950 mm
Outside diameter	1 250 mm
Width	175 mm

Performance

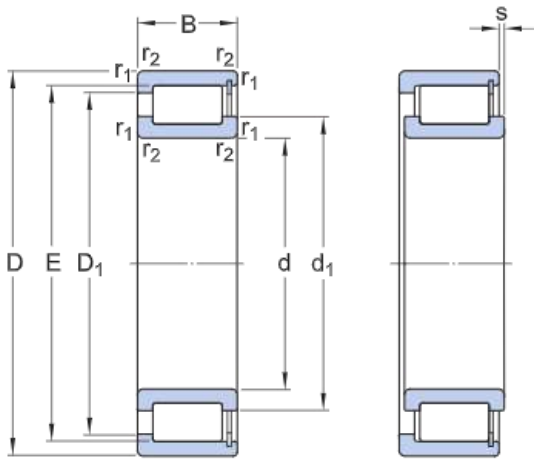
Basic dynamic load rating	6 600 kN
Basic static load rating	16 300 kN
Limiting speed	200 r/min
Reference speed	160 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

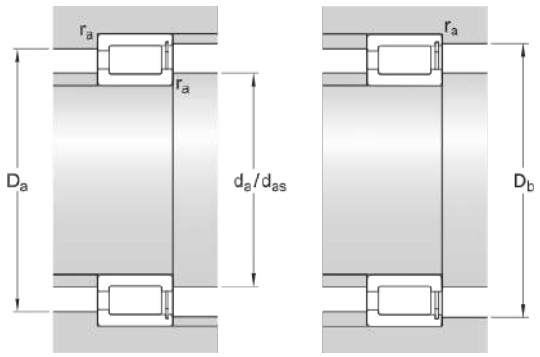
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	950 mm	Bore diameter
D	1 250 mm	Outside diameter
B	175 mm	Width
d_1	≈ 1 048 mm	Shoulder diameter inner ring
D_1	≈ 1 154 mm	Shoulder diameter outer ring
E	1 179 mm	Raceway diameter outer ring
s	max. 14 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 7.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 978 mm	Abutment diameter shaft
d_{as}	1 033 mm	Abutment diameter shaft
D_a	max. 1 222 mm	Abutment diameter housing
D_b	max. 1 222 mm	Abutment diameter housing
r_a	max. 6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	6 600 kN
Basic static load rating	C_0	16 300 kN
Fatigue load limit	P_u	1 020 kN
Reference speed		160 r/min
Limiting speed		200 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	565 kg

NCF 29/1000 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	1 000 mm
Outside diameter	1 320 mm
Width	185 mm

Performance

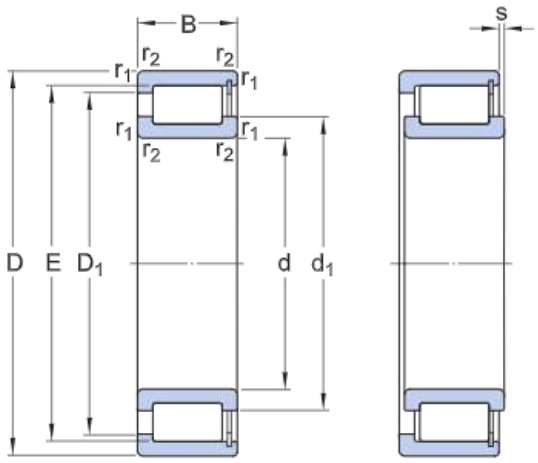
Basic dynamic load rating	7 480 kN
Basic static load rating	18 600 kN
Limiting speed	180 r/min
Reference speed	150 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

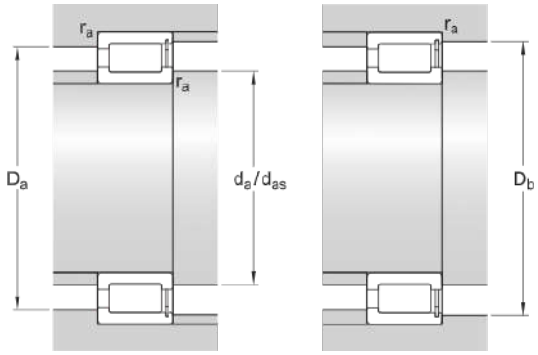
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	1 000 mm	Bore diameter
D	1 320 mm	Outside diameter
B	185 mm	Width
d_1	≈ 1 113 mm	Shoulder diameter inner ring
D_1	≈ 1 226 mm	Shoulder diameter outer ring
E	1 252 mm	Raceway diameter outer ring
s	max. 14 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 7.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 1 028 mm	Abutment diameter shaft
d_{as}	1 091 mm	Abutment diameter shaft
D_a	max. 1 292 mm	Abutment diameter housing
D_b	max. 1 292 mm	Abutment diameter housing
r_a	max. 6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	7 480 kN
Basic static load rating	C_0	18 600 kN
Fatigue load limit	P_u	1 160 kN
Reference speed		150 r/min
Limiting speed		180 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	680 kg

NCF 30/500 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	720 mm
Width	167 mm

Performance

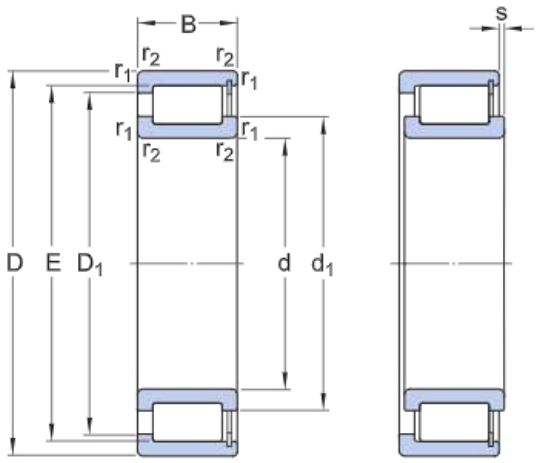
Basic dynamic load rating	3 800 kN
Basic static load rating	7 500 kN
Limiting speed	450 r/min
Reference speed	360 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

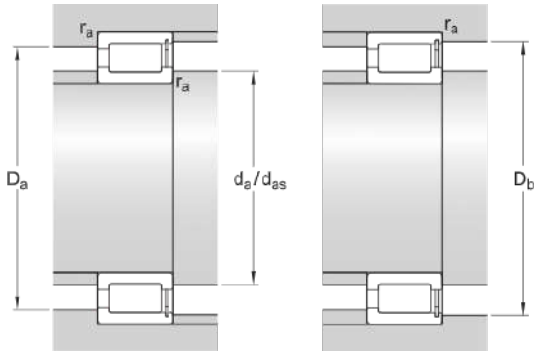
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	500 mm	Bore diameter
D	720 mm	Outside diameter
B	167 mm	Width
d_1	≈ 565 mm	Shoulder diameter inner ring
D_1	≈ 650 mm	Shoulder diameter outer ring
E	676 mm	Raceway diameter outer ring
s	max. 16 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 523 mm	Abutment diameter shaft
d_{as}	553 mm	Abutment diameter shaft
D_a	max. 697 mm	Abutment diameter housing
D_b	max. 697 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 800 kN
Basic static load rating	C_0	7 500 kN

Fatigue load limit	P_u	570 kN
Reference speed		360 r/min
Limiting speed		450 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	215 kg

NCF 1852 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	320 mm
Width	28 mm

Performance

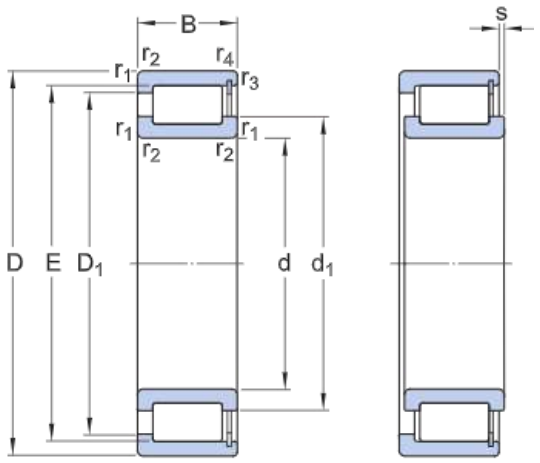
Basic dynamic load rating	270 kN
Basic static load rating	550 kN
Limiting speed	1 000 r/min
Reference speed	800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

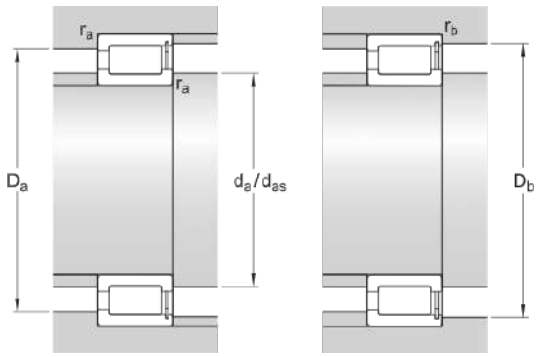
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	260 mm	Bore diameter
D	320 mm	Outside diameter
B	28 mm	Width
d_1	≈ 283 mm	Shoulder diameter inner ring
D_1	≈ 299 mm	Shoulder diameter outer ring
E	307.2 mm	Raceway diameter outer ring
s	max. 1.8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 269 mm	Abutment diameter shaft
d_{as}	279 mm	Abutment diameter shaft
D_a	max. 311 mm	Abutment diameter housing
D_b	max. 313 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	270 kN
Basic static load rating	C_0	550 kN
Fatigue load limit	P_u	49 kN
Reference speed		800 r/min
Limiting speed		1 000 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	4.56 kg

NCF 1856 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	350 mm
Width	33 mm

Performance

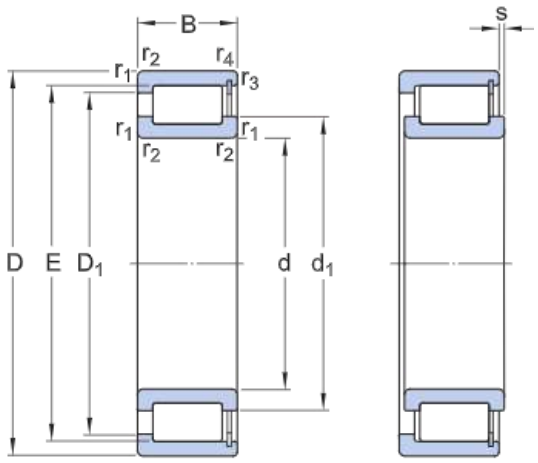
Basic dynamic load rating	341 kN
Basic static load rating	695 kN
Limiting speed	950 r/min
Reference speed	750 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

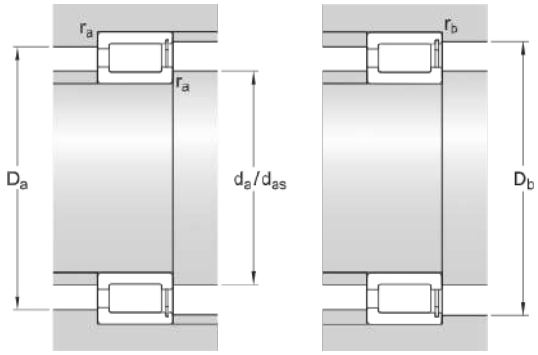
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	280 mm	Bore diameter
D	350 mm	Outside diameter
B	33 mm	Width
d_1	≈ 307 mm	Shoulder diameter inner ring
D_1	≈ 325 mm	Shoulder diameter outer ring
E	334 mm	Raceway diameter outer ring
s	max. 2.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 290 mm	Abutment diameter shaft
d_{as}	303 mm	Abutment diameter shaft
D_a	max. 341 mm	Abutment diameter housing
D_b	max. 343 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	341 kN
Basic static load rating	C_0	695 kN
Fatigue load limit	P_u	64 kN
Reference speed		750 r/min
Limiting speed		950 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	7.1 kg

NCF 1864 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	400 mm
Width	38 mm

Performance

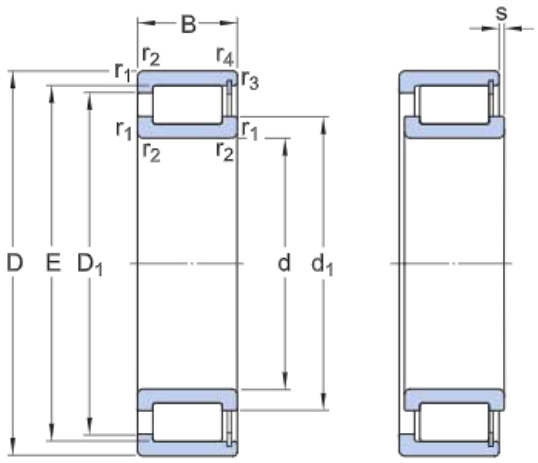
Basic dynamic load rating	440 kN
Basic static load rating	900 kN
Limiting speed	800 r/min
Reference speed	630 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

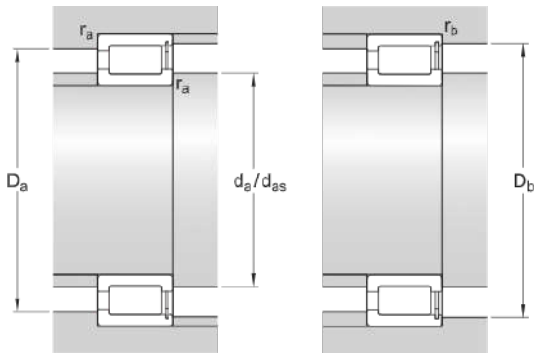
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	320 mm	Bore diameter
D	400 mm	Outside diameter
B	38 mm	Width
d_1	≈ 351 mm	Shoulder diameter inner ring
D_1	≈ 373 mm	Shoulder diameter outer ring
E	383 mm	Raceway diameter outer ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 331 mm	Abutment diameter shaft
d_{as}	346 mm	Abutment diameter shaft
D_a	max. 389 mm	Abutment diameter housing
D_b	max. 392 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	440 kN
Basic static load rating	C_0	900 kN
Fatigue load limit	P_u	80 kN
Reference speed		630 r/min
Limiting speed		800 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	10.5 kg

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NCF 1868 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	420 mm
Width	38 mm

Performance

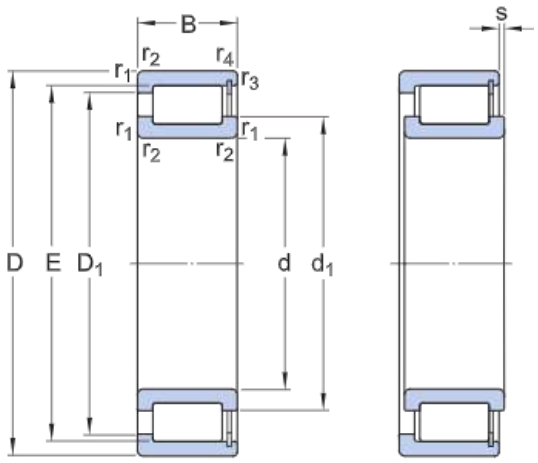
Basic dynamic load rating	446 kN
Basic static load rating	950 kN
Limiting speed	750 r/min
Reference speed	600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

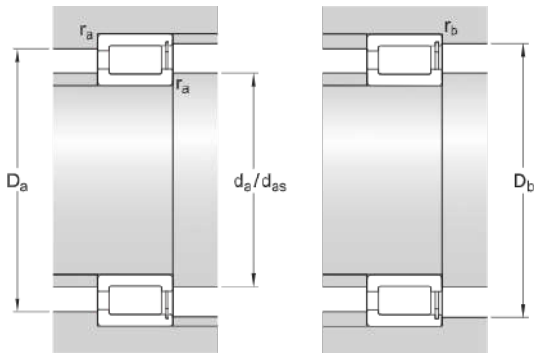
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	340 mm	Bore diameter
D	420 mm	Outside diameter
B	38 mm	Width
d_1	≈ 371 mm	Shoulder diameter inner ring
D_1	≈ 393 mm	Shoulder diameter outer ring
E	403 mm	Raceway diameter outer ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 351 mm	Abutment diameter shaft
d_{as}	366 mm	Abutment diameter shaft
D_a	max. 409 mm	Abutment diameter housing
D_b	max. 412 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	446 kN
Basic static load rating	C_0	950 kN
Fatigue load limit	P_u	83 kN
Reference speed		600 r/min
Limiting speed		750 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	11 kg

NCF 1872 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	360 mm
Outside diameter	440 mm
Width	38 mm

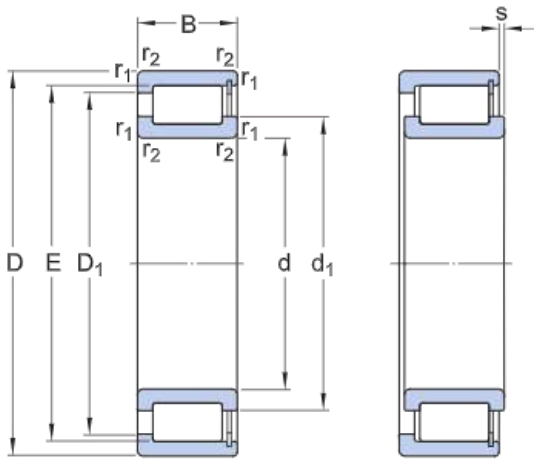
Performance

Basic dynamic load rating	402 kN
Basic static load rating	900 kN
Limiting speed	700 r/min
Reference speed	560 r/min

Properties

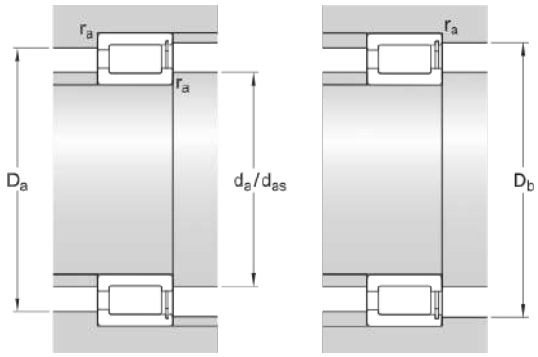
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	360 mm	Bore diameter
D	440 mm	Outside diameter
B	38 mm	Width
d_1	≈ 388 mm	Shoulder diameter inner ring
D_1	≈ 413 mm	Shoulder diameter outer ring
E	418.9 mm	Raceway diameter outer ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 371 mm	Abutment diameter shaft
d_{as}	384 mm	Abutment diameter shaft
D_a	max. 429 mm	Abutment diameter housing
D_b	max. 433 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	402 kN

Basic static load rating	C_0	900 kN
Fatigue load limit	P_u	76.5 kN
Reference speed		560 r/min
Limiting speed		700 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	11.5 kg

NCF 1876 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	480 mm
Width	46 mm

Performance

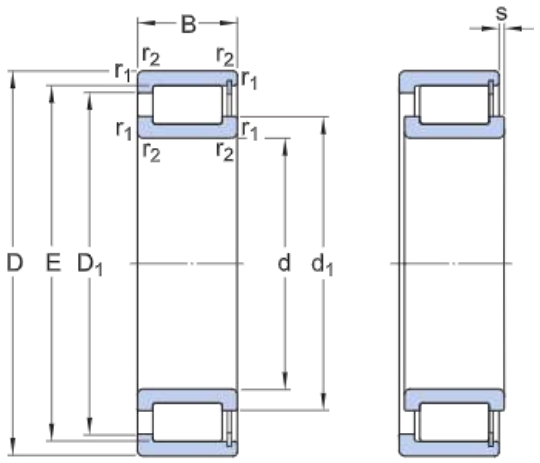
Basic dynamic load rating	627 kN
Basic static load rating	1 290 kN
Limiting speed	670 r/min
Reference speed	530 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

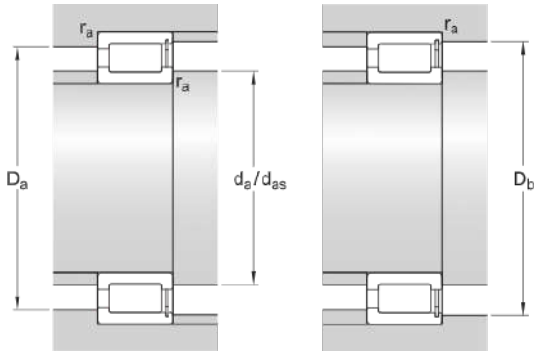
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	380 mm	Bore diameter
D	480 mm	Outside diameter
B	46 mm	Width
d_1	≈ 416 mm	Shoulder diameter inner ring
D_1	≈ 448 mm	Shoulder diameter outer ring
E	458 mm	Raceway diameter outer ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 391 mm	Abutment diameter shaft
d_{as}	411 mm	Abutment diameter shaft
D_a	max. 469 mm	Abutment diameter housing
D_b	max. 473 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	627 kN
Basic static load rating	C_0	1 290 kN

Fatigue load limit	P_u	114 kN
Reference speed		530 r/min
Limiting speed		670 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	19.5 kg

NCF 1880 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	500 mm
Width	46 mm

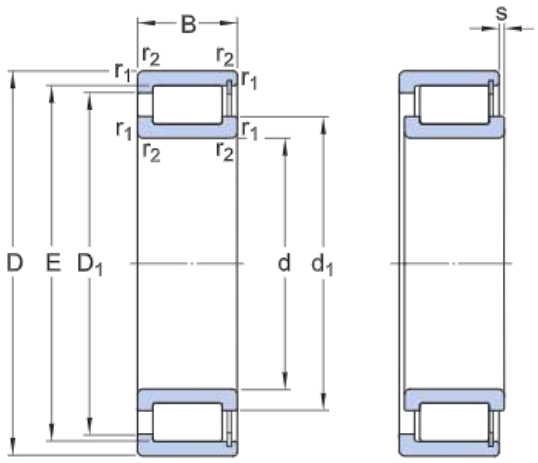
Performance

Basic dynamic load rating	627 kN
Basic static load rating	1 340 kN
Limiting speed	630 r/min
Reference speed	500 r/min

Properties

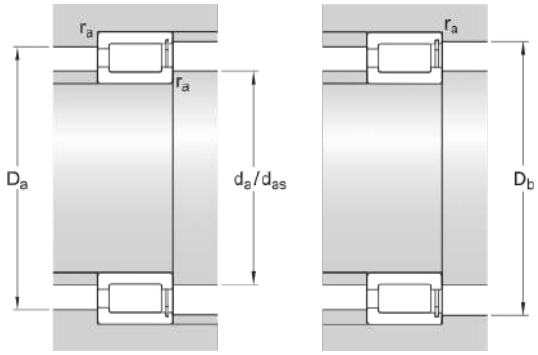
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	400 mm	Bore diameter
D	500 mm	Outside diameter
B	46 mm	Width
d_1	≈ 433 mm	Shoulder diameter inner ring
D_1	≈ 465 mm	Shoulder diameter outer ring
E	475 mm	Raceway diameter outer ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 411 mm	Abutment diameter shaft
d_{as}	428 mm	Abutment diameter shaft
D_a	max. 489 mm	Abutment diameter housing
D_b	max. 493 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	627 kN
Basic static load rating	C_0	1 340 kN

Fatigue load limit	P_u	116 kN
Reference speed		500 r/min
Limiting speed		630 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	20 kg

NCF 1884 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	420 mm
Outside diameter	520 mm
Width	46 mm

Performance

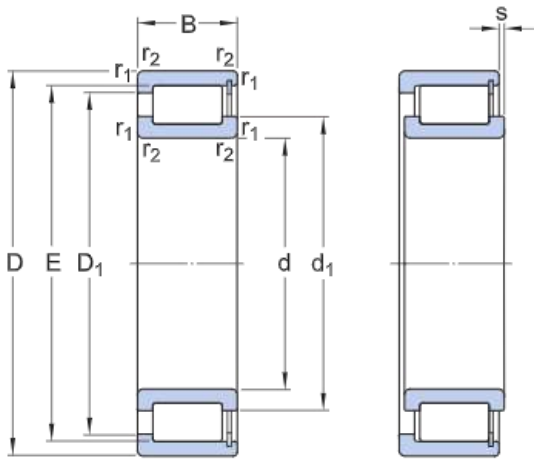
Basic dynamic load rating	660 kN
Basic static load rating	1 430 kN
Limiting speed	600 r/min
Reference speed	480 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

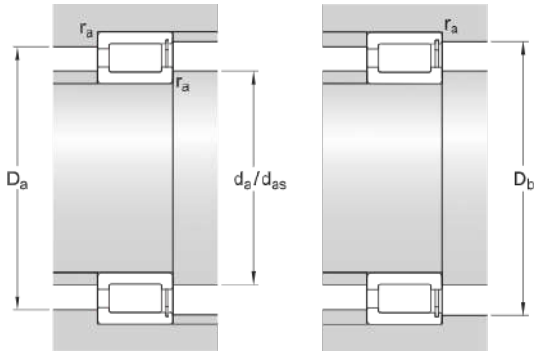
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	420 mm	Bore diameter
D	520 mm	Outside diameter
B	46 mm	Width
d_1	≈ 457 mm	Shoulder diameter inner ring
D_1	≈ 489 mm	Shoulder diameter outer ring
E	499 mm	Raceway diameter outer ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 431 mm	Abutment diameter shaft
d_{as}	452 mm	Abutment diameter shaft
D_a	max. 509 mm	Abutment diameter housing
D_b	max. 513 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	660 kN
Basic static load rating	C_0	1 430 kN

Fatigue load limit	P_u	122 kN
Reference speed		480 r/min
Limiting speed		600 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	20.7 kg

NCF 1888 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	440 mm
Outside diameter	540 mm
Width	46 mm

Performance

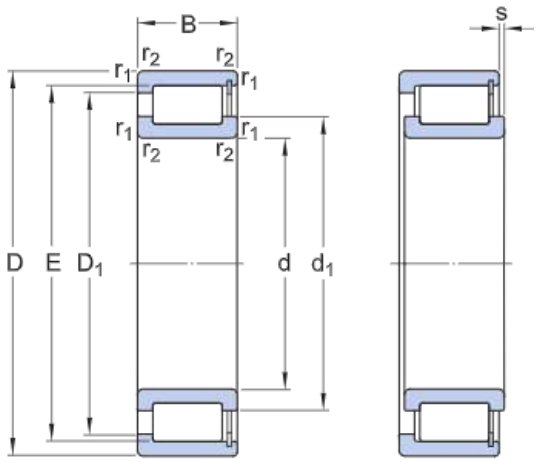
Basic dynamic load rating	671 kN
Basic static load rating	1 460 kN
Limiting speed	560 r/min
Reference speed	450 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

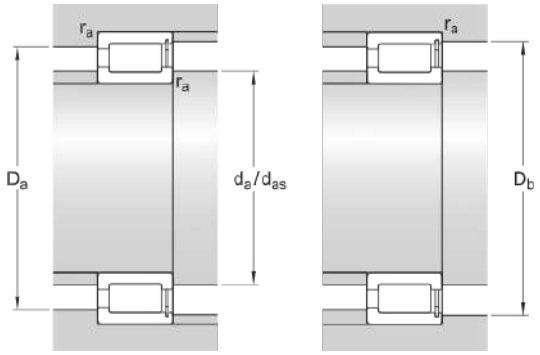
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	440 mm	Bore diameter
D	540 mm	Outside diameter
B	46 mm	Width
d_1	≈ 474 mm	Shoulder diameter inner ring
D_1	≈ 506 mm	Shoulder diameter outer ring
E	516 mm	Raceway diameter outer ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 451 mm	Abutment diameter shaft
d_{as}	469 mm	Abutment diameter shaft
D_a	max. 529 mm	Abutment diameter housing
D_b	max. 533 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	671 kN
Basic static load rating	C_0	1 460 kN

Fatigue load limit	P_u	125 kN
Reference speed		450 r/min
Limiting speed		560 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	22 kg

NCF 1896 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	480 mm
Outside diameter	600 mm
Width	56 mm

Performance

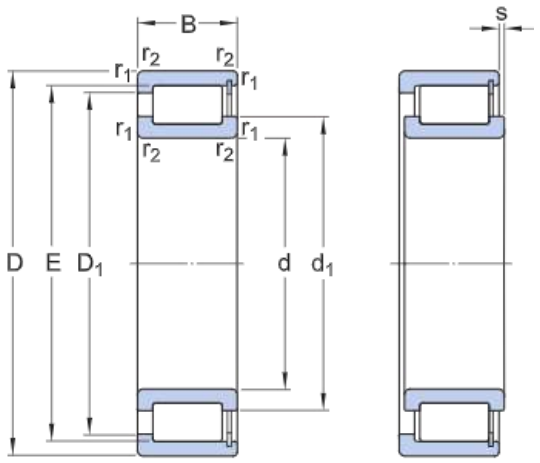
Basic dynamic load rating	935 kN
Basic static load rating	2 040 kN
Limiting speed	500 r/min
Reference speed	400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

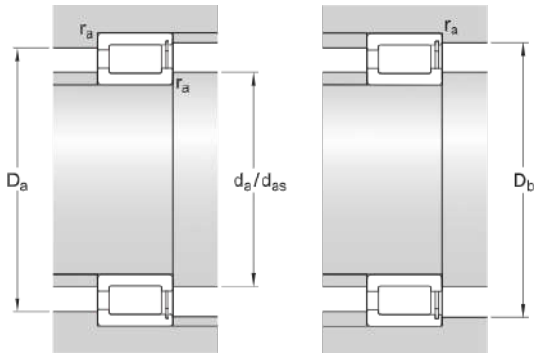
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	480 mm	Bore diameter
D	600 mm	Outside diameter
B	56 mm	Width
d_1	≈ 522 mm	Shoulder diameter inner ring
D_1	≈ 561 mm	Shoulder diameter outer ring
E	573.5 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 493 mm	Abutment diameter shaft
d_{as}	516 mm	Abutment diameter shaft
D_a	max. 587 mm	Abutment diameter housing
D_b	max. 587 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	935 kN

Basic static load rating	C_0	2 040 kN
Fatigue load limit	P_u	170 kN
Reference speed		400 r/min
Limiting speed		500 r/min
Calculation factor	k_r	0.1
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	34 kg

NCF 2224 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	215 mm
Width	58 mm

Performance

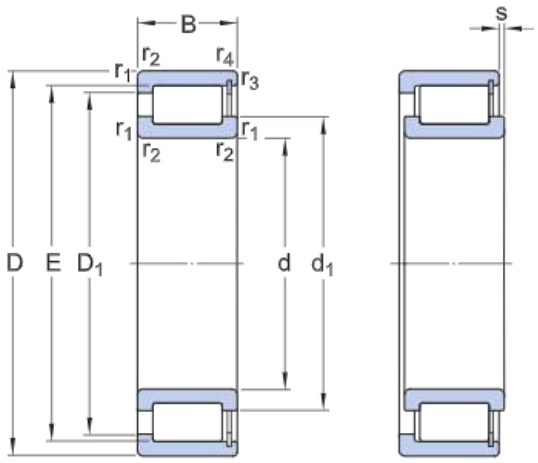
Basic dynamic load rating	512 kN
Basic static load rating	735 kN
Limiting speed	1 700 r/min
Reference speed	1 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

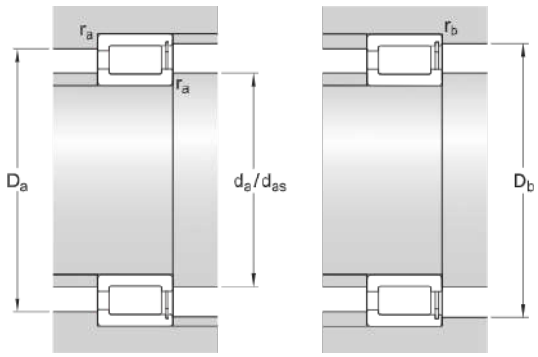
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	58 mm	Width
d_1	≈ 150 mm	Shoulder diameter inner ring
D_1	≈ 184 mm	Shoulder diameter outer ring
E	192.32 mm	Raceway diameter outer ring
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 131 mm	Abutment diameter shaft
d_{as}	145 mm	Abutment diameter shaft
D_a	max. 204 mm	Abutment diameter housing
D_b	max. 204 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	512 kN
Basic static load rating	C_0	735 kN
Fatigue load limit	P_u	85 kN
Reference speed		1 400 r/min
Limiting speed		1 700 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	9.05 kg

NCF 2234 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	310 mm
Width	86 mm

Performance

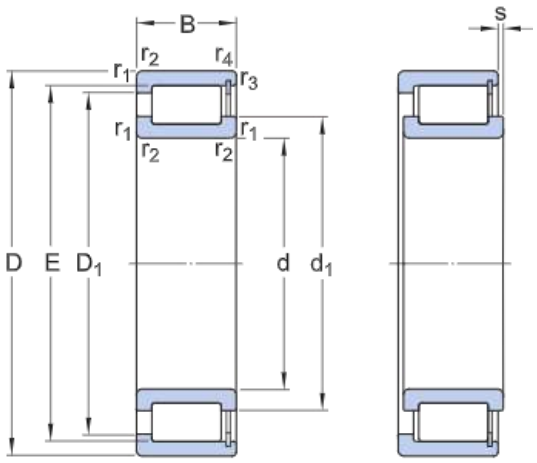
Basic dynamic load rating	1 100 kN
Basic static load rating	1 700 kN
Limiting speed	1 100 r/min
Reference speed	900 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

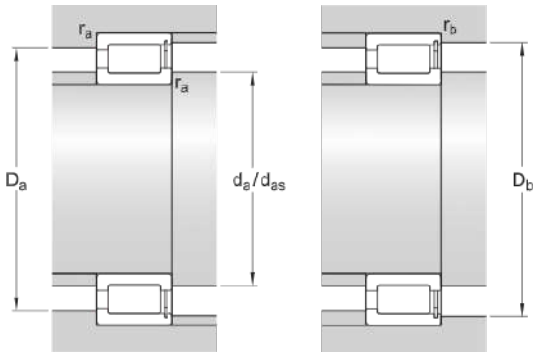
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	170 mm	Bore diameter
D	310 mm	Outside diameter
B	86 mm	Width
d_1	≈ 219 mm	Shoulder diameter inner ring
D_1	≈ 269 mm	Shoulder diameter outer ring
E	281.09 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension
$r_{3,4}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 189 mm	Abutment diameter shaft
d_{as}	212 mm	Abutment diameter shaft
D_a	max. 295 mm	Abutment diameter housing
D_b	max. 294 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 100 kN

Basic static load rating	C_0	1 700 kN
Fatigue load limit	P_u	176 kN
Reference speed		900 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing		28.7 kg

NCF 2888 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	440 mm
Outside diameter	540 mm
Width	60 mm

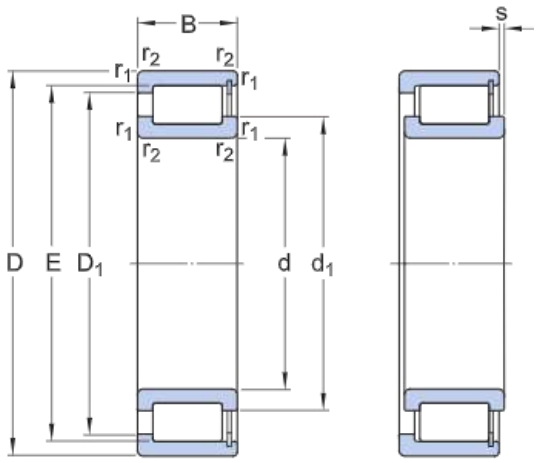
Performance

Basic dynamic load rating	1 060 kN
Basic static load rating	2 700 kN
Limiting speed	560 r/min
Reference speed	450 r/min

Properties

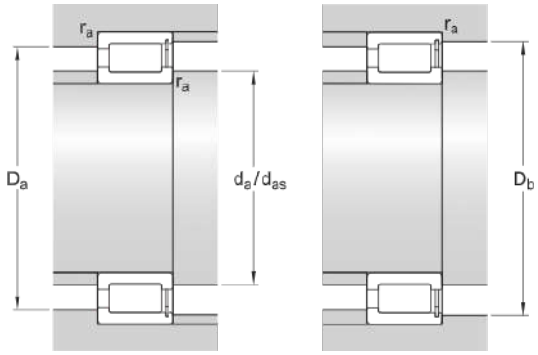
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	440 mm	Bore diameter
D	540 mm	Outside diameter
B	60 mm	Width
d_1	≈ 474 mm	Shoulder diameter inner ring
D_1	≈ 508 mm	Shoulder diameter outer ring
E	516 mm	Raceway diameter outer ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 451 mm	Abutment diameter shaft
d_{as}	469 mm	Abutment diameter shaft
D_a	max. 529 mm	Abutment diameter housing
D_b	max. 533 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 060 kN
Basic static load rating	C_0	2 700 kN

Fatigue load limit	P_u	232 kN
Reference speed		450 r/min
Limiting speed		560 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	30 kg

NCF 2892 V/HB1

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	460 mm
Outside diameter	580 mm
Width	72 mm

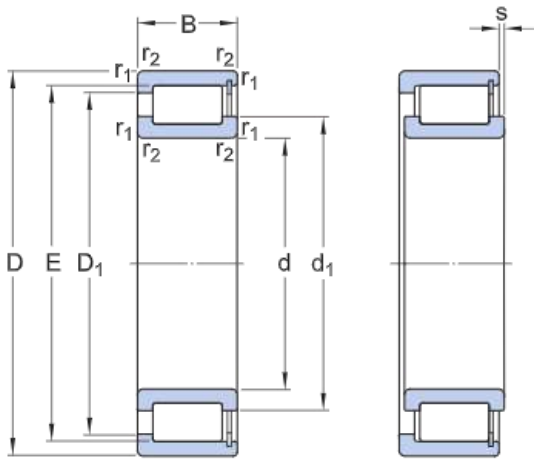
Performance

Basic dynamic load rating	1 300 kN
Basic static load rating	3 050 kN
Limiting speed	530 r/min
Reference speed	430 r/min

Properties

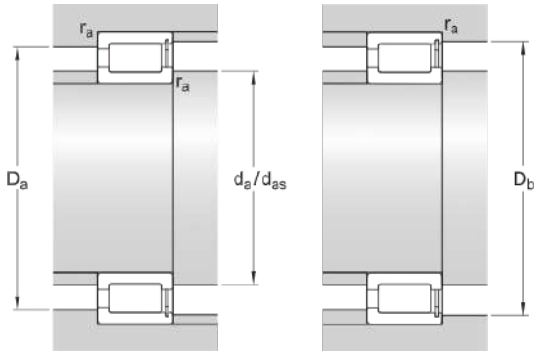
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	460 mm	Bore diameter
D	580 mm	Outside diameter
B	72 mm	Width
d_1	≈ 501 mm	Shoulder diameter inner ring
D_1	≈ 543 mm	Shoulder diameter outer ring
E	553 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 473 mm	Abutment diameter shaft
d_{as}	495 mm	Abutment diameter shaft
D_a	max. 567 mm	Abutment diameter housing
D_b	max. 567 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 300 kN

Basic static load rating	C_0	3 050 kN
Fatigue load limit	P_u	260 kN
Reference speed		430 r/min
Limiting speed		530 r/min
Calculation factor	k_r	0.11
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	44 kg

NCF 2912 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	60 mm
Outside diameter	85 mm
Width	16 mm

Performance

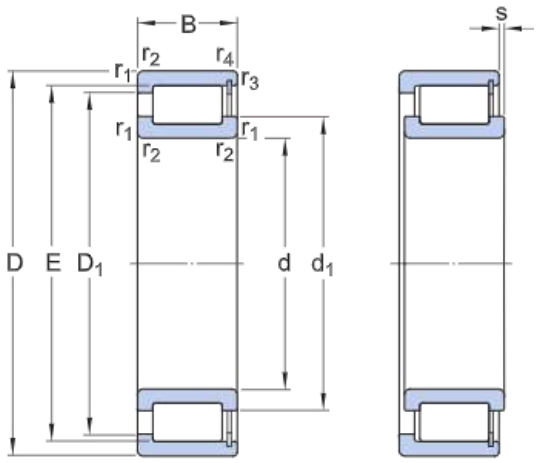
Basic dynamic load rating	55 kN
Basic static load rating	80 kN
Limiting speed	4 500 r/min
Reference speed	3 600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

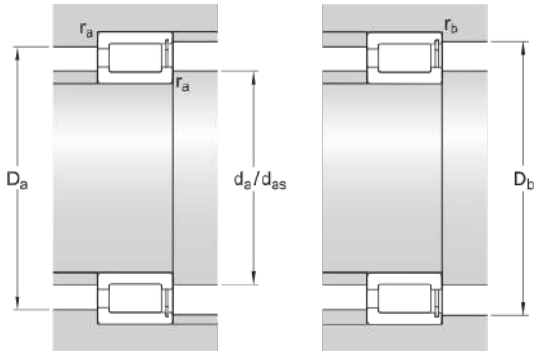
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	60 mm	Bore diameter
D	85 mm	Outside diameter
B	16 mm	Width
d_1	≈ 69 mm	Shoulder diameter inner ring
D_1	≈ 74.5 mm	Shoulder diameter outer ring
E	78.65 mm	Raceway diameter outer ring
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 64 mm	Abutment diameter shaft
d_{as}	66.8 mm	Abutment diameter shaft
D_a	max. 80 mm	Abutment diameter housing
D_b	max. 80 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	80 kN
Fatigue load limit	P_u	9.15 kN
Reference speed		3 600 r/min
Limiting speed		4 500 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.27 kg

NCF 2913 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	65 mm
Outside diameter	90 mm
Width	16 mm

Performance

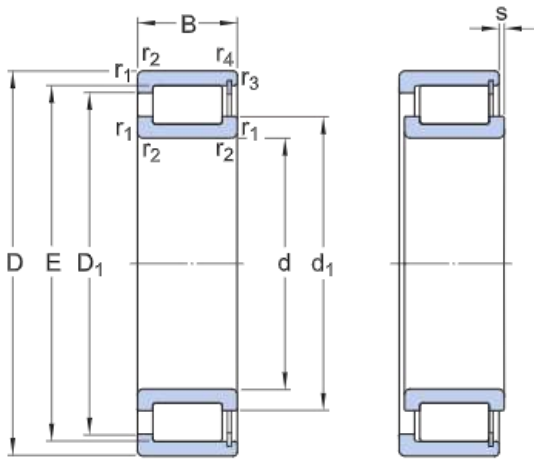
Basic dynamic load rating	58.3 kN
Basic static load rating	88 kN
Limiting speed	4 000 r/min
Reference speed	3 200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

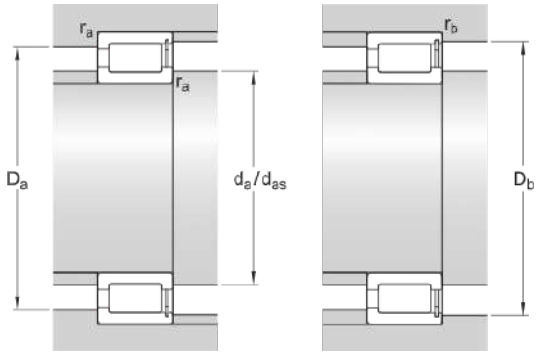
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	65 mm	Bore diameter
D	90 mm	Outside diameter
B	16 mm	Width
d_1	≈ 75.5 mm	Shoulder diameter inner ring
D_1	≈ 81 mm	Shoulder diameter outer ring
E	85.24 mm	Raceway diameter outer ring
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 70 mm	Abutment diameter shaft
d_{as}	73.4 mm	Abutment diameter shaft
D_a	max. 85 mm	Abutment diameter housing
D_b	max. 86 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	58.3 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	10.2 kN
Reference speed		3 200 r/min
Limiting speed		4 000 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.31 kg

NCF 2914 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	100 mm
Width	19 mm

Performance

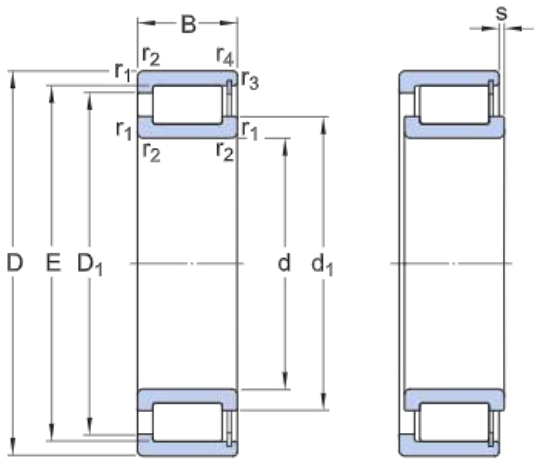
Basic dynamic load rating	76.5 kN
Basic static load rating	116 kN
Limiting speed	3 800 r/min
Reference speed	3 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

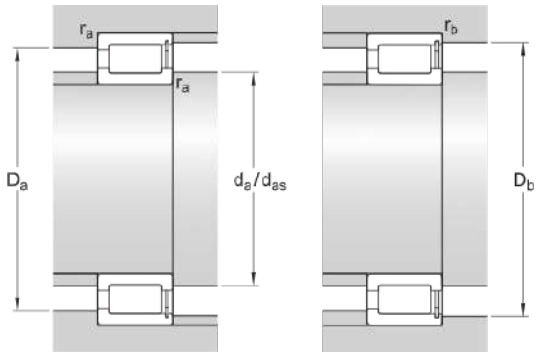
Technical Specification



Dimensions

d	70 mm	Bore diameter
D	100 mm	Outside diameter
B	19 mm	Width
d_1	≈ 80.5 mm	Shoulder diameter inner ring
D_1	≈ 88.5 mm	Shoulder diameter outer ring
E	92.5 mm	Raceway diameter outer ring
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Parameter r3.4 has either the value specified here or the same value as r1.2.



Abutment dimensions

d_a	min. 75 mm	Abutment diameter shaft
d_{as}	78.5 mm	Abutment diameter shaft
D_a	max. 95 mm	Abutment diameter housing
D_b	max. 96 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	76.5 kN
Basic static load rating	C_0	116 kN

Fatigue load limit	P_u	13.7 kN
Reference speed		3 000 r/min
Limiting speed		3 800 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.49 kg

NCF 2915 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	75 mm
Outside diameter	105 mm
Width	19 mm

Performance

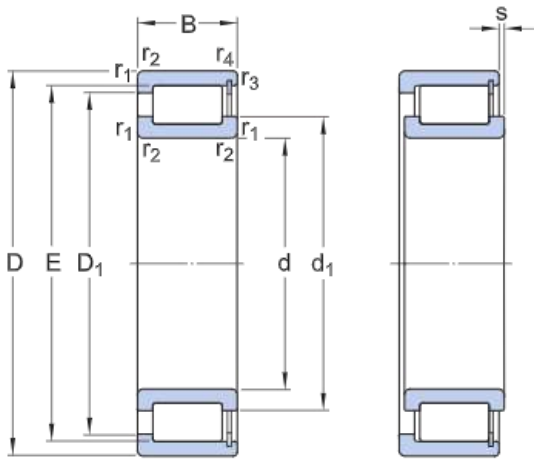
Basic dynamic load rating	79.2 kN
Basic static load rating	125 kN
Limiting speed	3 600 r/min
Reference speed	2 800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

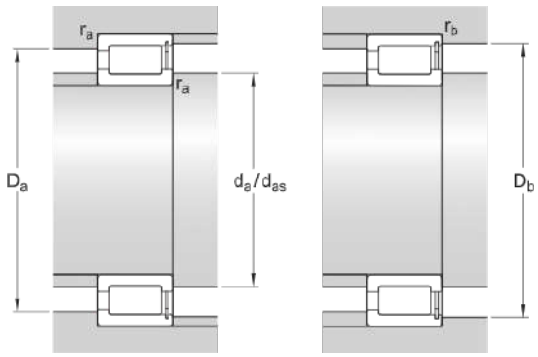
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	75 mm	Bore diameter
D	105 mm	Outside diameter
B	19 mm	Width
d_1	≈ 86 mm	Shoulder diameter inner ring
D_1	≈ 93 mm	Shoulder diameter outer ring
E	97.5 mm	Raceway diameter outer ring
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 80 mm	Abutment diameter shaft
d_{as}	83.8 mm	Abutment diameter shaft
D_a	max. 100 mm	Abutment diameter housing
D_b	max. 101 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	79.2 kN
Basic static load rating	C_0	125 kN
Fatigue load limit	P_u	14.6 kN
Reference speed		2 800 r/min
Limiting speed		3 600 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.52 kg

NCF 2916 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	110 mm
Width	19 mm

Performance

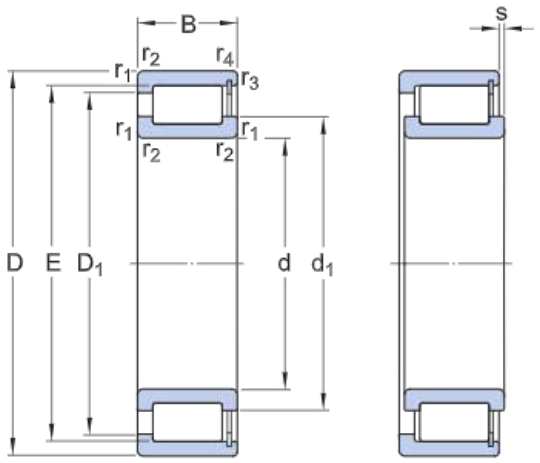
Basic dynamic load rating	80.9 kN
Basic static load rating	132 kN
Limiting speed	3 400 r/min
Reference speed	2 600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

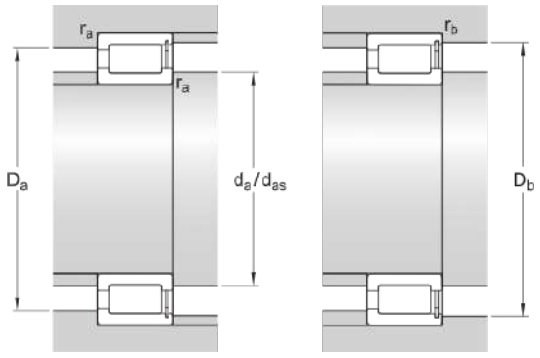
Technical Specification



Dimensions

d	80 mm	Bore diameter
D	110 mm	Outside diameter
B	19 mm	Width
d_1	≈ 90.5 mm	Shoulder diameter inner ring
D_1	≈ 99 mm	Shoulder diameter outer ring
E	102.7 mm	Raceway diameter outer ring
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Parameter r3.4 has either the value specified here or the same value as r1.2.



Abutment dimensions

d_a	min. 85 mm	Abutment diameter shaft
d_{as}	88.6 mm	Abutment diameter shaft
D_a	max. 105 mm	Abutment diameter housing
D_b	max. 106 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	80.9 kN
Basic static load rating	C_0	132 kN

Fatigue load limit	P_u	15.6 kN
Reference speed		2 600 r/min
Limiting speed		3 400 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.55 kg

NCF 2917 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	85 mm
Outside diameter	120 mm
Width	22 mm

Performance

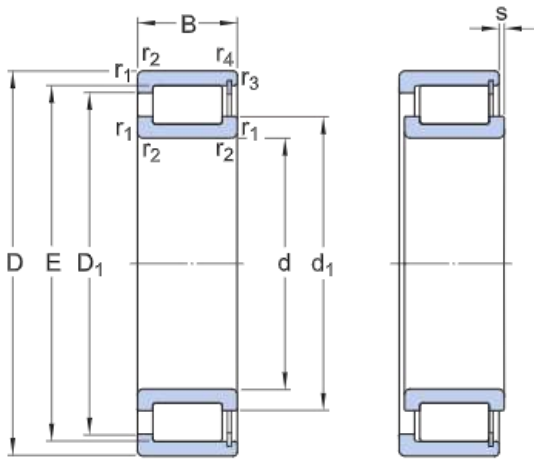
Basic dynamic load rating	102 kN
Basic static load rating	166 kN
Limiting speed	3 200 r/min
Reference speed	2 600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

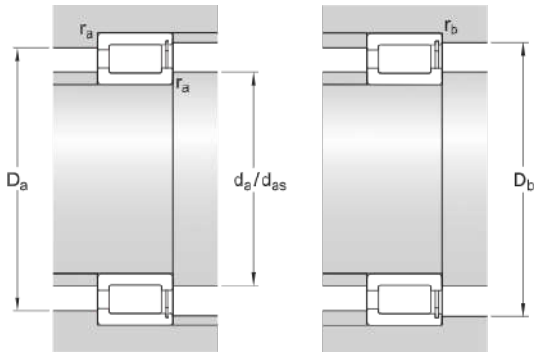
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	85 mm	Bore diameter
D	120 mm	Outside diameter
B	22 mm	Width
d_1	≈ 96 mm	Shoulder diameter inner ring
D_1	≈ 105 mm	Shoulder diameter outer ring
E	109.5 mm	Raceway diameter outer ring
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 90 mm	Abutment diameter shaft
d_{as}	93.8 mm	Abutment diameter shaft
D_a	max. 114 mm	Abutment diameter housing
D_b	max. 114 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	102 kN
Basic static load rating	C_0	166 kN
Fatigue load limit	P_u	20 kN
Reference speed		2 600 r/min
Limiting speed		3 200 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.81 kg

NCF 2918 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	90 mm
Outside diameter	125 mm
Width	22 mm

Performance

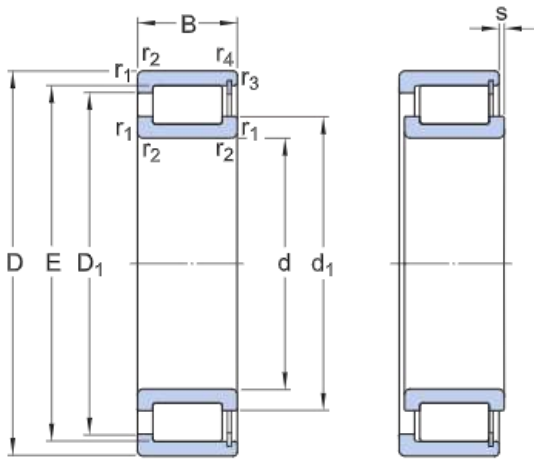
Basic dynamic load rating	105 kN
Basic static load rating	176 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

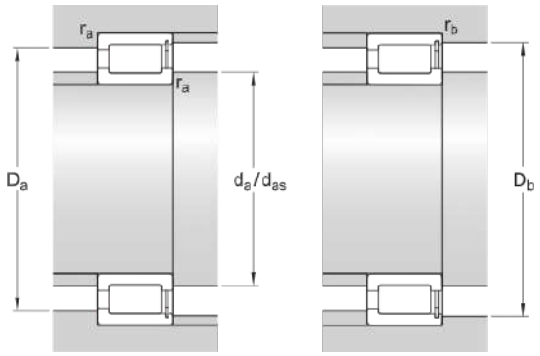
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	90 mm	Bore diameter
D	125 mm	Outside diameter
B	22 mm	Width
d_1	≈ 102 mm	Shoulder diameter inner ring
D_1	≈ 111 mm	Shoulder diameter outer ring
E	115.6 mm	Raceway diameter outer ring
s	max. 1 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 96 mm	Abutment diameter shaft
d_{as}	99.8 mm	Abutment diameter shaft
D_a	max. 119 mm	Abutment diameter housing
D_b	max. 119 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	105 kN
Basic static load rating	C_0	176 kN
Fatigue load limit	P_u	20.8 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.84 kg

NCF 2920 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	140 mm
Width	24 mm

Performance

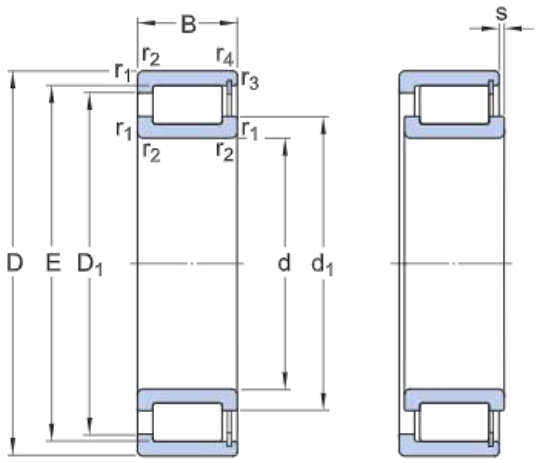
Basic dynamic load rating	128 kN
Basic static load rating	200 kN
Limiting speed	2 600 r/min
Reference speed	2 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

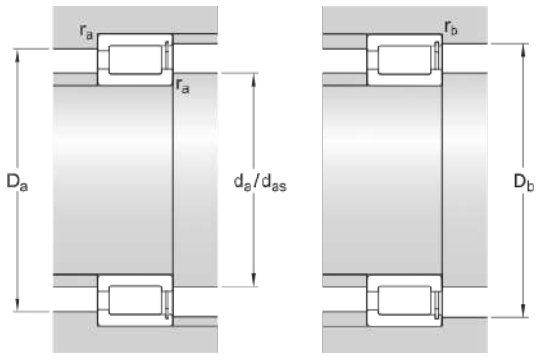
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	100 mm	Bore diameter
D	140 mm	Outside diameter
B	24 mm	Width
d_1	≈ 114 mm	Shoulder diameter inner ring
D_1	≈ 126 mm	Shoulder diameter outer ring
E	130.6 mm	Raceway diameter outer ring
s	max. 1.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 106 mm	Abutment diameter shaft
d_{as}	111 mm	Abutment diameter shaft
D_a	max. 134 mm	Abutment diameter housing
D_b	max. 134 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	128 kN
Basic static load rating	C_0	200 kN
Fatigue load limit	P_u	24.5 kN
Reference speed		2 000 r/min
Limiting speed		2 600 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1.09 kg

NCF 2922 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	150 mm
Width	24 mm

Performance

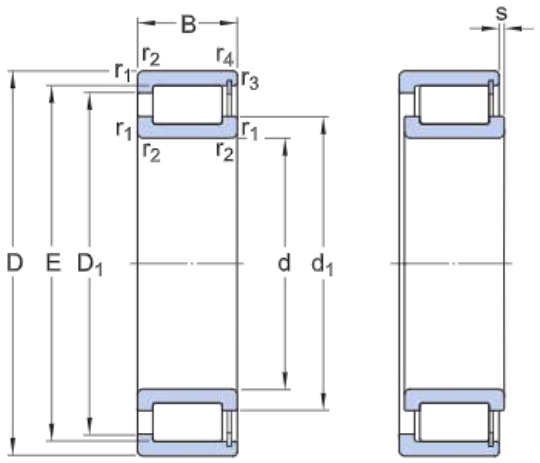
Basic dynamic load rating	134 kN
Basic static load rating	220 kN
Limiting speed	2 400 r/min
Reference speed	1 900 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

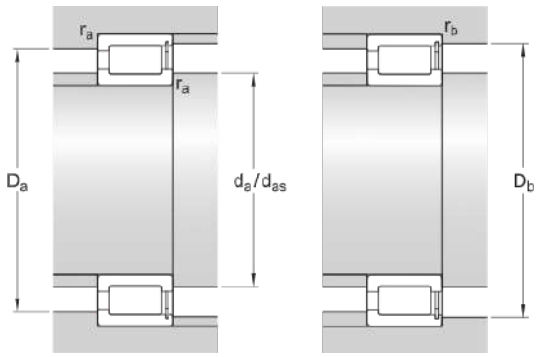
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	110 mm	Bore diameter
D	150 mm	Outside diameter
B	24 mm	Width
d_1	≈ 124 mm	Shoulder diameter inner ring
D_1	≈ 136 mm	Shoulder diameter outer ring
E	141.1 mm	Raceway diameter outer ring
s	max. 1.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 116 mm	Abutment diameter shaft
d_{as}	122 mm	Abutment diameter shaft
D_a	max. 144 mm	Abutment diameter housing
D_b	max. 144 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	134 kN
Basic static load rating	C_0	220 kN
Fatigue load limit	P_u	26 kN
Reference speed		1 900 r/min
Limiting speed		2 400 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1.17 kg

NCF 2924 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	165 mm
Width	27 mm

Performance

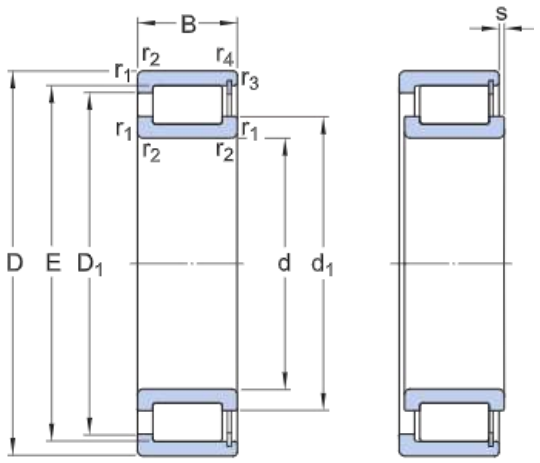
Basic dynamic load rating	172 kN
Basic static load rating	290 kN
Limiting speed	2 200 r/min
Reference speed	1 800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

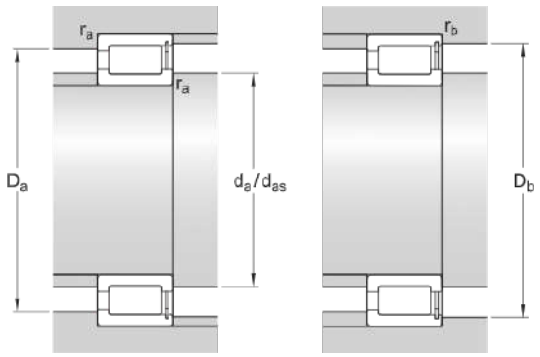
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	165 mm	Outside diameter
B	27 mm	Width
d_1	≈ 136 mm	Shoulder diameter inner ring
D_1	≈ 149 mm	Shoulder diameter outer ring
E	154.3 mm	Raceway diameter outer ring
s	max. 1.3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 126 mm	Abutment diameter shaft
d_{as}	133 mm	Abutment diameter shaft
D_a	max. 159 mm	Abutment diameter housing
D_b	max. 159 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	172 kN
Basic static load rating	C_0	290 kN
Fatigue load limit	P_u	34 kN
Reference speed		1 800 r/min
Limiting speed		2 200 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1.73 kg

NCF 2926 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	180 mm
Width	30 mm

Performance

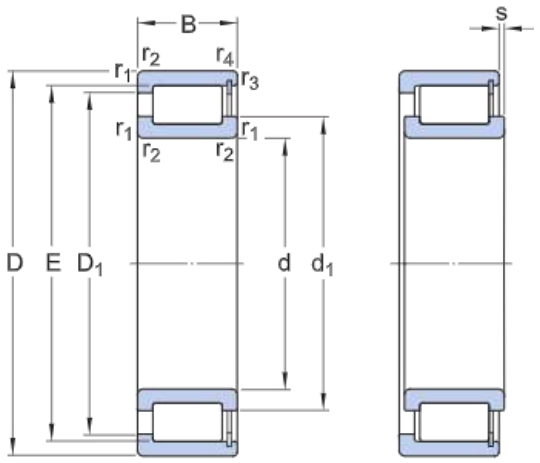
Basic dynamic load rating	205 kN
Basic static load rating	360 kN
Limiting speed	2 000 r/min
Reference speed	1 600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

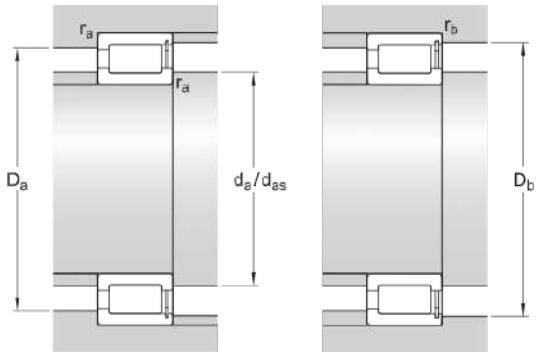
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	130 mm	Bore diameter
D	180 mm	Outside diameter
B	30 mm	Width
d_1	≈ 147 mm	Shoulder diameter inner ring
D_1	≈ 161 mm	Shoulder diameter outer ring
E	167.1 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 138 mm	Abutment diameter shaft
d_{as}	144 mm	Abutment diameter shaft
D_a	max. 172 mm	Abutment diameter housing
D_b	max. 173 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	205 kN
Basic static load rating	C_0	360 kN
Fatigue load limit	P_u	40.5 kN
Reference speed		1 600 r/min
Limiting speed		2 000 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	2.33 kg

NCF 2928 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	190 mm
Width	30 mm

Performance

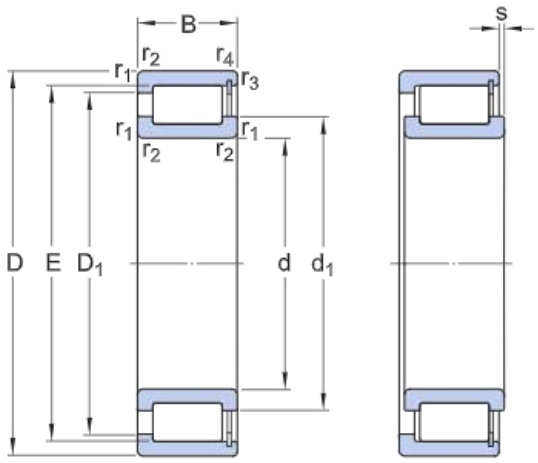
Basic dynamic load rating	220 kN
Basic static load rating	390 kN
Limiting speed	1 900 r/min
Reference speed	1 500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

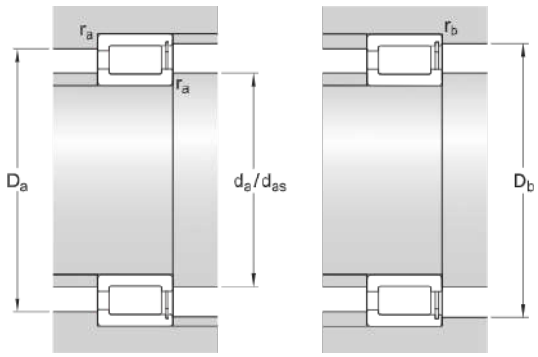
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	140 mm	Bore diameter
D	190 mm	Outside diameter
B	30 mm	Width
d_1	≈ 158 mm	Shoulder diameter inner ring
D_1	≈ 173 mm	Shoulder diameter outer ring
E	180 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 148 mm	Abutment diameter shaft
d_{as}	155 mm	Abutment diameter shaft
D_a	max. 182 mm	Abutment diameter housing
D_b	max. 183 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	220 kN
Basic static load rating	C_0	390 kN
Fatigue load limit	P_u	43 kN
Reference speed		1 500 r/min
Limiting speed		1 900 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	2.44 kg

NCF 2930 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	210 mm
Width	36 mm

Performance

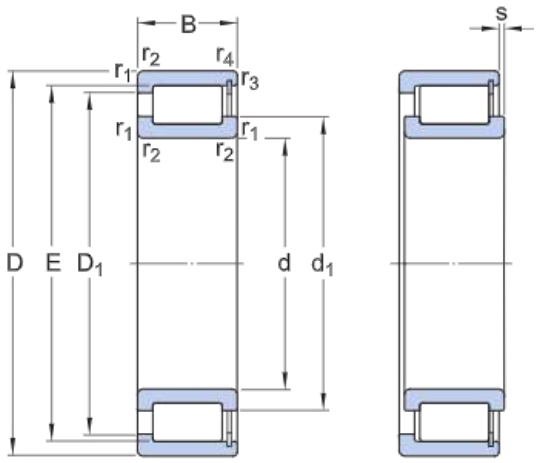
Basic dynamic load rating	292 kN
Basic static load rating	490 kN
Limiting speed	1 700 r/min
Reference speed	1 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

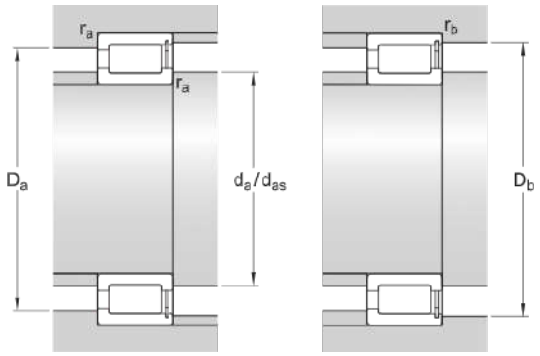
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	150 mm	Bore diameter
D	210 mm	Outside diameter
B	36 mm	Width
d_1	≈ 169 mm	Shoulder diameter inner ring
D_1	≈ 189 mm	Shoulder diameter outer ring
E	196.4 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 159 mm	Abutment diameter shaft
d_{as}	166 mm	Abutment diameter shaft
D_a	max. 201 mm	Abutment diameter housing
D_b	max. 203 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	292 kN
Basic static load rating	C_0	490 kN
Fatigue load limit	P_u	55 kN
Reference speed		1 400 r/min
Limiting speed		1 700 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	3.73 kg

NCF 2932 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	220 mm
Width	36 mm

Performance

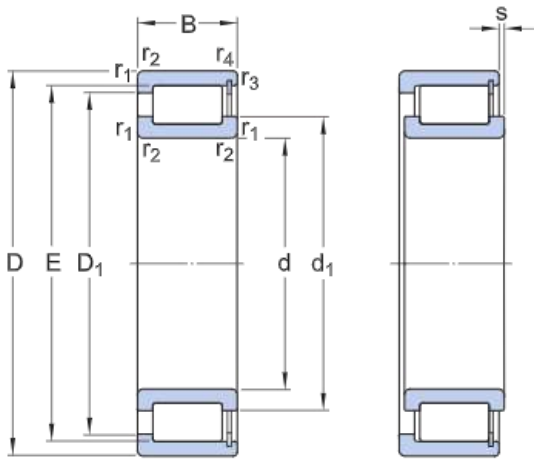
Basic dynamic load rating	303 kN
Basic static load rating	530 kN
Limiting speed	1 600 r/min
Reference speed	1 300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

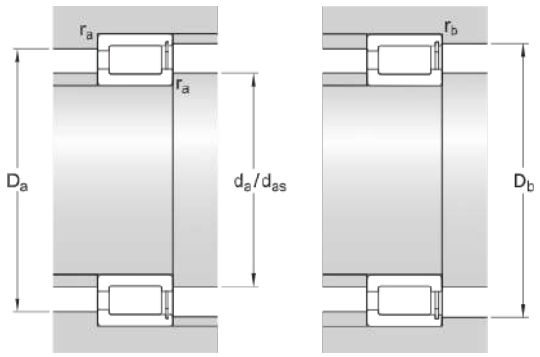
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	160 mm	Bore diameter
D	220 mm	Outside diameter
B	36 mm	Width
d_1	≈ 180 mm	Shoulder diameter inner ring
D_1	≈ 200 mm	Shoulder diameter outer ring
E	207.2 mm	Raceway diameter outer ring
s	max. 2.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 169 mm	Abutment diameter shaft
d_{as}	177 mm	Abutment diameter shaft
D_a	max. 211 mm	Abutment diameter housing
D_b	max. 211 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	303 kN
Basic static load rating	C_0	530 kN
Fatigue load limit	P_u	58.5 kN
Reference speed		1 300 r/min
Limiting speed		1 600 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	3.95 kg

NCF 2934 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	230 mm
Width	36 mm

Performance

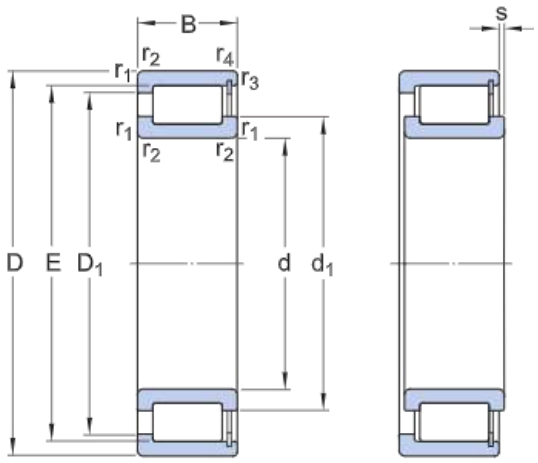
Basic dynamic load rating	314 kN
Basic static load rating	560 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

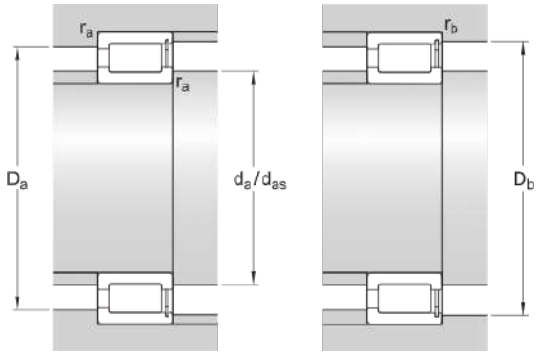
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	170 mm	Bore diameter
D	230 mm	Outside diameter
B	36 mm	Width
d_1	≈ 191 mm	Shoulder diameter inner ring
D_1	≈ 211 mm	Shoulder diameter outer ring
E	218 mm	Raceway diameter outer ring
s	max. 2.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 179 mm	Abutment diameter shaft
d_{as}	188 mm	Abutment diameter shaft
D_a	max. 221 mm	Abutment diameter housing
D_b	max. 223 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	314 kN
Basic static load rating	C_0	560 kN
Fatigue load limit	P_u	60 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	4.06 kg

NCF 2936 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	250 mm
Width	42 mm

Performance

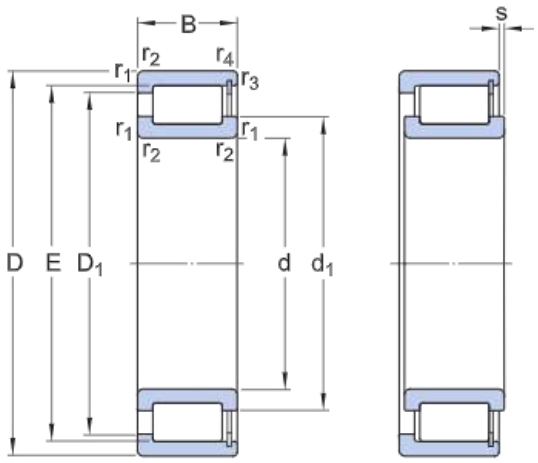
Basic dynamic load rating	391 kN
Basic static load rating	695 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

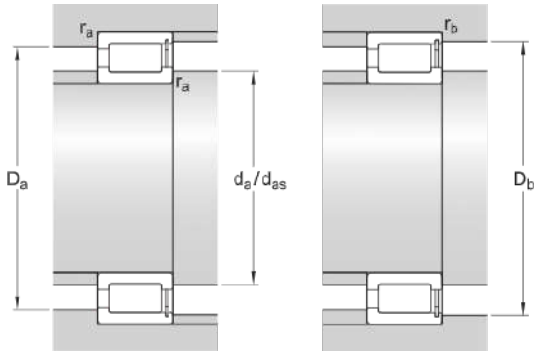
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	180 mm	Bore diameter
D	250 mm	Outside diameter
B	42 mm	Width
d_1	≈ 203 mm	Shoulder diameter inner ring
D_1	≈ 223 mm	Shoulder diameter outer ring
E	232 mm	Raceway diameter outer ring
s	max. 2.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 189 mm	Abutment diameter shaft
d_{as}	199 mm	Abutment diameter shaft
D_a	max. 241 mm	Abutment diameter housing
D_b	max. 243 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	391 kN
Basic static load rating	C_0	695 kN
Fatigue load limit	P_u	75 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	6.14 kg

NCF 2938 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	260 mm
Width	42 mm

Performance

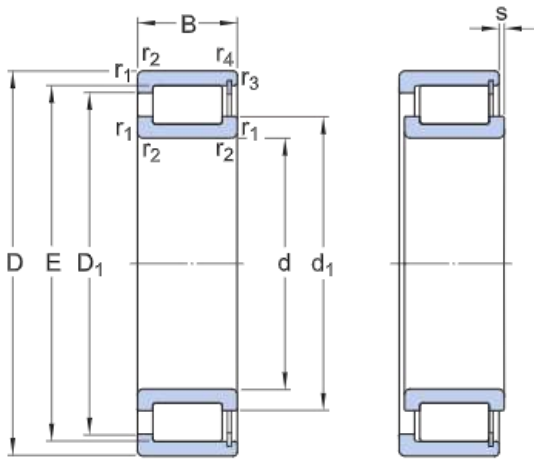
Basic dynamic load rating	440 kN
Basic static load rating	780 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

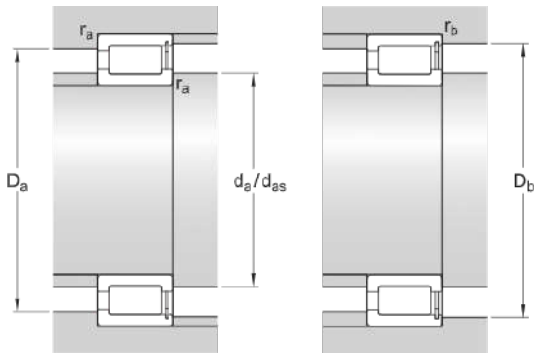
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	190 mm	Bore diameter
D	260 mm	Outside diameter
B	42 mm	Width
d_1	≈ 212 mm	Shoulder diameter inner ring
D_1	≈ 236 mm	Shoulder diameter outer ring
E	244 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 199 mm	Abutment diameter shaft
d_{as}	208 mm	Abutment diameter shaft
D_a	max. 250 mm	Abutment diameter housing
D_b	max. 252 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	440 kN
Basic static load rating	C_0	780 kN
Fatigue load limit	P_u	81.5 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	6.4 kg

NCF 2940 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	280 mm
Width	48 mm

Performance

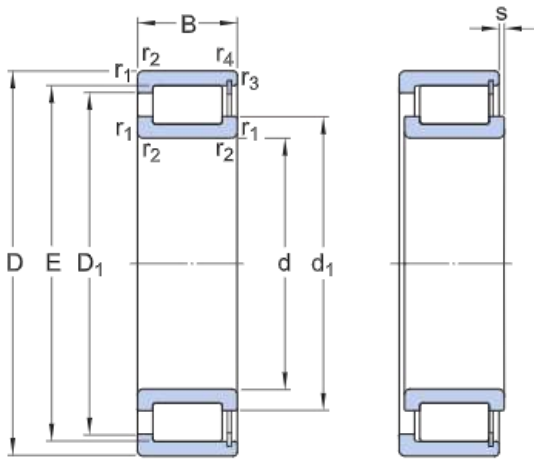
Basic dynamic load rating	528 kN
Basic static load rating	965 kN
Limiting speed	1 300 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

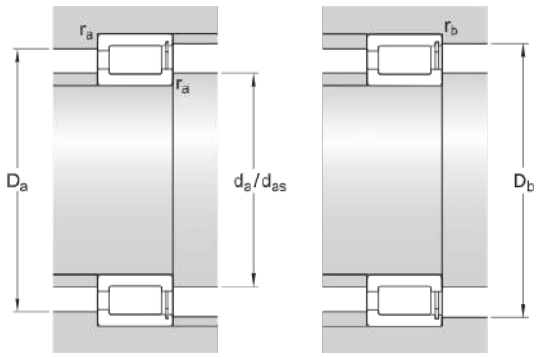
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	200 mm	Bore diameter
D	280 mm	Outside diameter
B	48 mm	Width
d_1	≈ 226 mm	Shoulder diameter inner ring
D_1	≈ 253 mm	Shoulder diameter outer ring
E	262 mm	Raceway diameter outer ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 211 mm	Abutment diameter shaft
d_{as}	222 mm	Abutment diameter shaft
D_a	max. 269 mm	Abutment diameter housing
D_b	max. 271 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	528 kN
Basic static load rating	C_0	965 kN
Fatigue load limit	P_u	100 kN
Reference speed		1 000 r/min
Limiting speed		1 300 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	9.38 kg

NCF 2944 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	300 mm
Width	48 mm

Performance

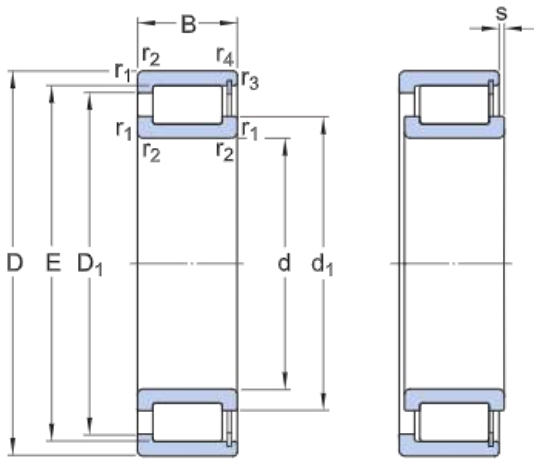
Basic dynamic load rating	550 kN
Basic static load rating	1 060 kN
Limiting speed	1 200 r/min
Reference speed	900 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

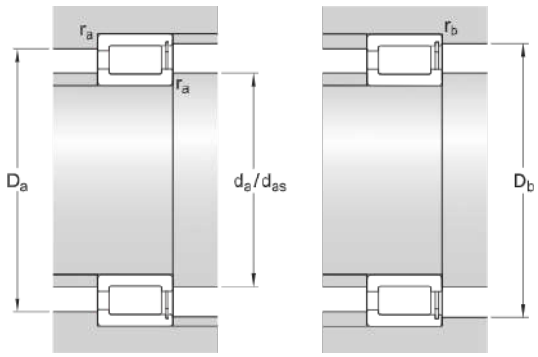
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	220 mm	Bore diameter
D	300 mm	Outside diameter
B	48 mm	Width
d_1	≈ 247 mm	Shoulder diameter inner ring
D_1	≈ 274 mm	Shoulder diameter outer ring
E	283 mm	Raceway diameter outer ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 231 mm	Abutment diameter shaft
d_{as}	243 mm	Abutment diameter shaft
D_a	max. 289 mm	Abutment diameter housing
D_b	max. 291 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	550 kN
Basic static load rating	C_0	1 060 kN
Fatigue load limit	P_u	106 kN
Reference speed		900 r/min
Limiting speed		1 200 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	9.65 kg

NCF 2948 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	320 mm
Width	48 mm

Performance

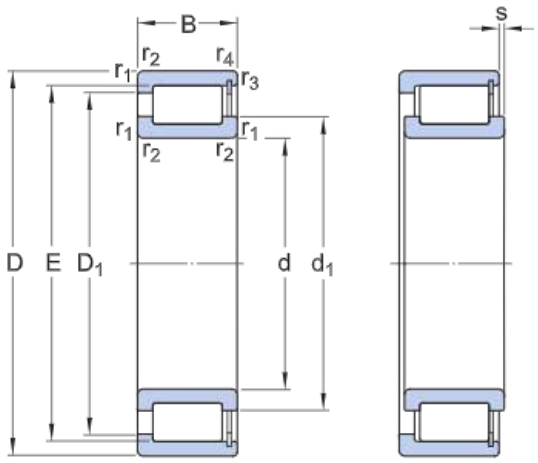
Basic dynamic load rating	583 kN
Basic static load rating	1 140 kN
Limiting speed	1 100 r/min
Reference speed	850 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

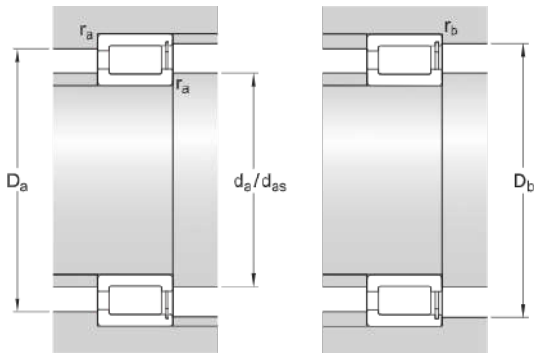
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	240 mm	Bore diameter
D	320 mm	Outside diameter
B	48 mm	Width
d_1	≈ 267 mm	Shoulder diameter inner ring
D_1	≈ 294 mm	Shoulder diameter outer ring
E	303 mm	Raceway diameter outer ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 251 mm	Abutment diameter shaft
d_{as}	263 mm	Abutment diameter shaft
D_a	max. 309 mm	Abutment diameter housing
D_b	max. 311 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	583 kN
Basic static load rating	C_0	1 140 kN
Fatigue load limit	P_u	114 kN
Reference speed		850 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	10.4 kg

NCF 2952 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	360 mm
Width	60 mm

Performance

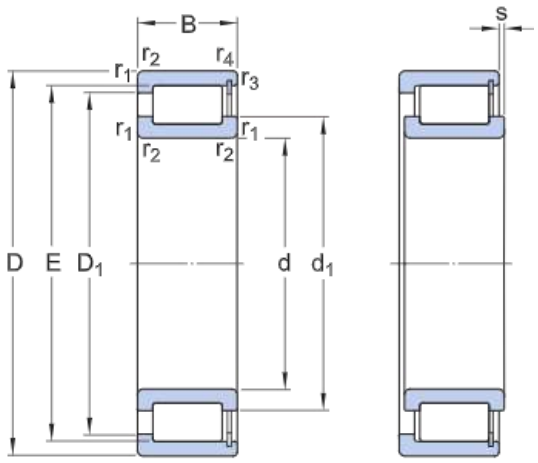
Basic dynamic load rating	737 kN
Basic static load rating	1 430 kN
Limiting speed	950 r/min
Reference speed	750 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

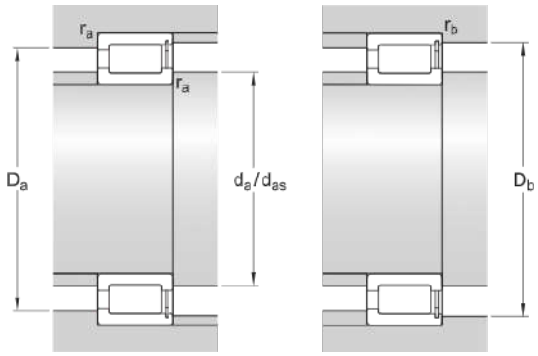
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	260 mm	Bore diameter
D	360 mm	Outside diameter
B	60 mm	Width
d_1	≈ 291 mm	Shoulder diameter inner ring
D_1	≈ 323 mm	Shoulder diameter outer ring
E	333.7 mm	Raceway diameter outer ring
s	max. 3.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 271 mm	Abutment diameter shaft
d_{as}	287 mm	Abutment diameter shaft
D_a	max. 348 mm	Abutment diameter housing
D_b	max. 350 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	737 kN
Basic static load rating	C_0	1 430 kN
Fatigue load limit	P_u	143 kN
Reference speed		750 r/min
Limiting speed		950 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	18.6 kg

NCF 2956 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	280 mm
Outside diameter	380 mm
Width	60 mm

Performance

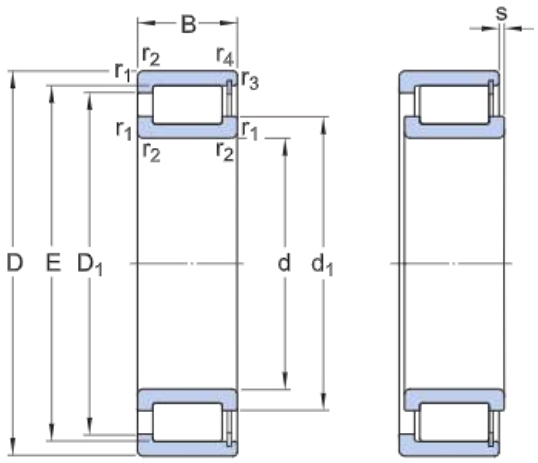
Basic dynamic load rating	880 kN
Basic static load rating	1 730 kN
Limiting speed	900 r/min
Reference speed	700 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

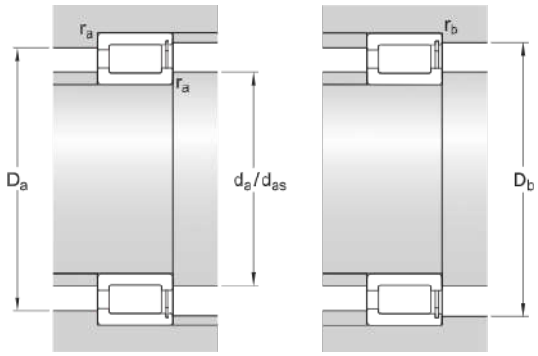
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	280 mm	Bore diameter
D	380 mm	Outside diameter
B	60 mm	Width
d_1	≈ 314 mm	Shoulder diameter inner ring
D_1	≈ 348 mm	Shoulder diameter outer ring
E	359.1 mm	Raceway diameter outer ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 291 mm	Abutment diameter shaft
d_{as}	309 mm	Abutment diameter shaft
D_a	max. 368 mm	Abutment diameter housing
D_b	max. 370 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	880 kN
Basic static load rating	C_0	1 730 kN
Fatigue load limit	P_u	166 kN
Reference speed		700 r/min
Limiting speed		900 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	19.6 kg

NCF 2960 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	300 mm
Outside diameter	420 mm
Width	72 mm

Performance

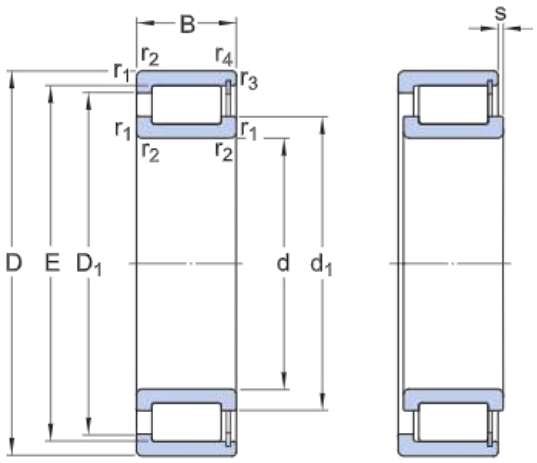
Basic dynamic load rating	1 120 kN
Basic static load rating	2 200 kN
Limiting speed	800 r/min
Reference speed	630 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

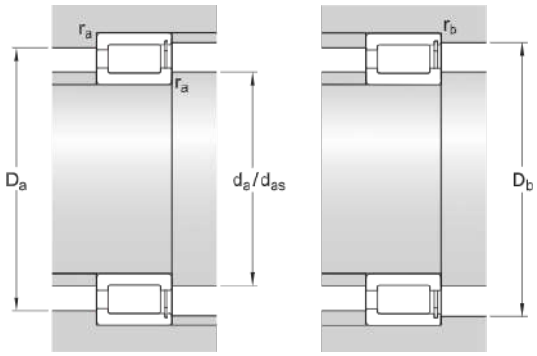
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	300 mm	Bore diameter
D	420 mm	Outside diameter
B	72 mm	Width
d_1	≈ 341 mm	Shoulder diameter inner ring
D_1	≈ 375 mm	Shoulder diameter outer ring
E	390.5 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension
$r_{3,4}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 314 mm	Abutment diameter shaft
d_{as}	334 mm	Abutment diameter shaft
D_a	max. 405 mm	Abutment diameter housing
D_b	max. 405 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 120 kN
Basic static load rating	C_0	2 200 kN
Fatigue load limit	P_u	208 kN
Reference speed		630 r/min
Limiting speed		800 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	31.5 kg

NCF 2964 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	440 mm
Width	72 mm

Performance

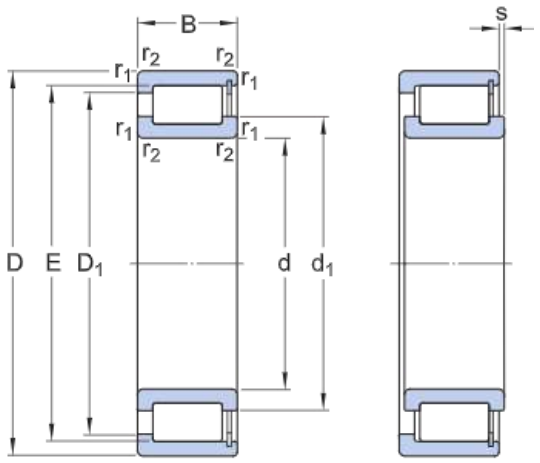
Basic dynamic load rating	1 140 kN
Basic static load rating	2 360 kN
Limiting speed	750 r/min
Reference speed	600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

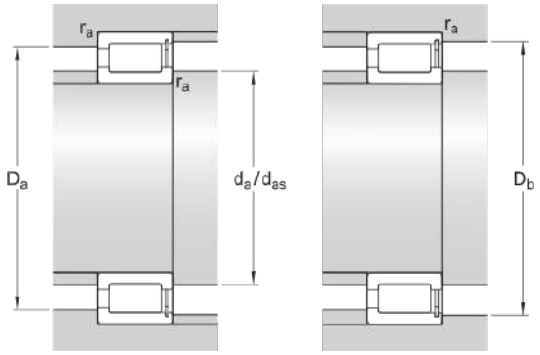
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	320 mm	Bore diameter
D	440 mm	Outside diameter
B	72 mm	Width
d_1	≈ 359 mm	Shoulder diameter inner ring
D_1	≈ 401 mm	Shoulder diameter outer ring
E	411 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 333 mm	Abutment diameter shaft
d_{as}	353 mm	Abutment diameter shaft
D_a	max. 427 mm	Abutment diameter housing
D_b	max. 427 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 140 kN

Basic static load rating	C_0	2 360 kN
Fatigue load limit	P_u	220 kN
Reference speed		600 r/min
Limiting speed		750 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	33 kg

NCF 2968 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	460 mm
Width	72 mm

Performance

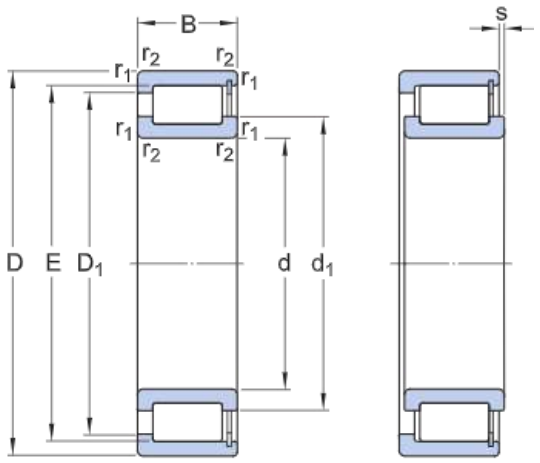
Basic dynamic load rating	1 190 kN
Basic static load rating	2 500 kN
Limiting speed	700 r/min
Reference speed	560 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

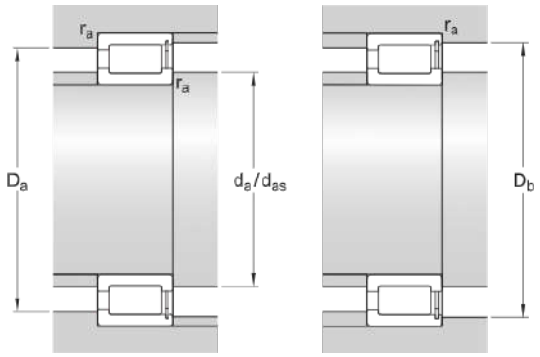
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	340 mm	Bore diameter
D	460 mm	Outside diameter
B	72 mm	Width
d_1	≈ 378.5 mm	Shoulder diameter inner ring
D_1	≈ 421 mm	Shoulder diameter outer ring
E	431 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 353 mm	Abutment diameter shaft
d_{as}	373 mm	Abutment diameter shaft
D_a	max. 447 mm	Abutment diameter housing
D_b	max. 447 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 190 kN

Basic static load rating	C_0	2 500 kN
Fatigue load limit	P_u	228 kN
Reference speed		560 r/min
Limiting speed		700 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	35 kg

NCF 2972 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	360 mm
Outside diameter	480 mm
Width	72 mm

Performance

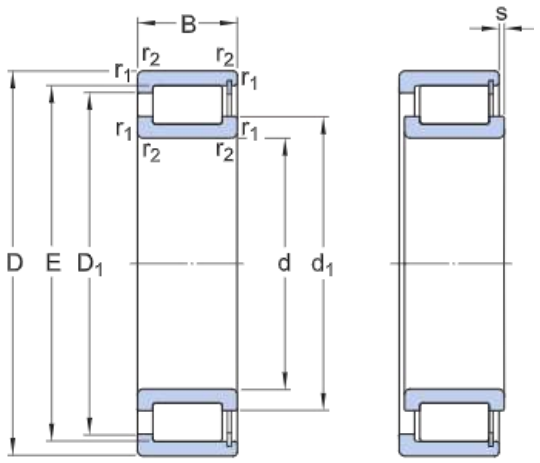
Basic dynamic load rating	1 230 kN
Basic static load rating	2 600 kN
Limiting speed	670 r/min
Reference speed	530 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

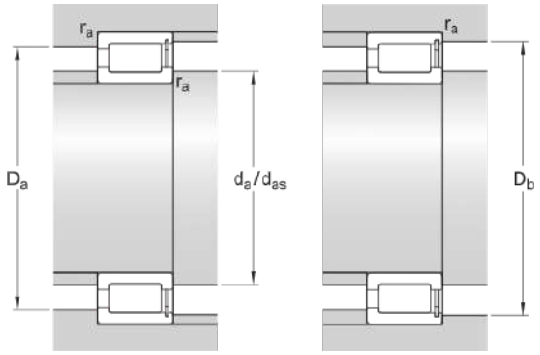
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	360 mm	Bore diameter
D	480 mm	Outside diameter
B	72 mm	Width
d_1	≈ 404 mm	Shoulder diameter inner ring
D_1	≈ 436.5 mm	Shoulder diameter outer ring
E	451.5 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 373 mm	Abutment diameter shaft
d_{as}	396 mm	Abutment diameter shaft
D_a	max. 467 mm	Abutment diameter housing
D_b	max. 467 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 230 kN

Basic static load rating	C_0	2 600 kN
Fatigue load limit	P_u	240 kN
Reference speed		530 r/min
Limiting speed		670 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	36.5 kg

NCF 2976 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	520 mm
Width	82 mm

Performance

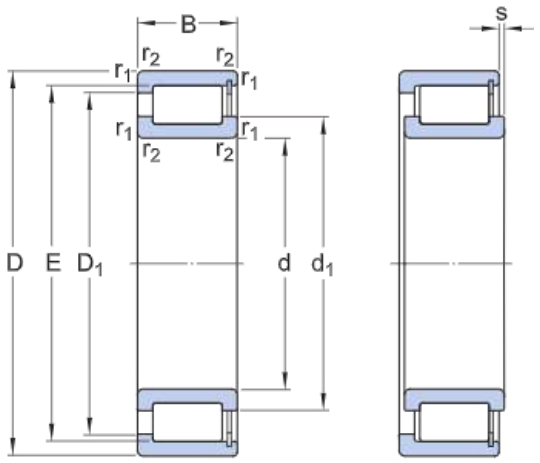
Basic dynamic load rating	1 570 kN
Basic static load rating	3 250 kN
Limiting speed	630 r/min
Reference speed	500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

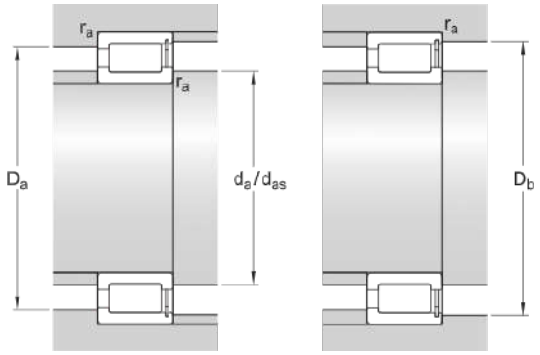
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	380 mm	Bore diameter
D	520 mm	Outside diameter
B	82 mm	Width
d_1	≈ 427.5 mm	Shoulder diameter inner ring
D_1	≈ 473.5 mm	Shoulder diameter outer ring
E	488 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 395 mm	Abutment diameter shaft
d_{as}	420 mm	Abutment diameter shaft
D_a	max. 505 mm	Abutment diameter housing
D_b	max. 505 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 570 kN

Basic static load rating	C_0	3 250 kN
Fatigue load limit	P_u	300 kN
Reference speed		500 r/min
Limiting speed		630 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	52 kg

NCF 2980 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	540 mm
Width	82 mm

Performance

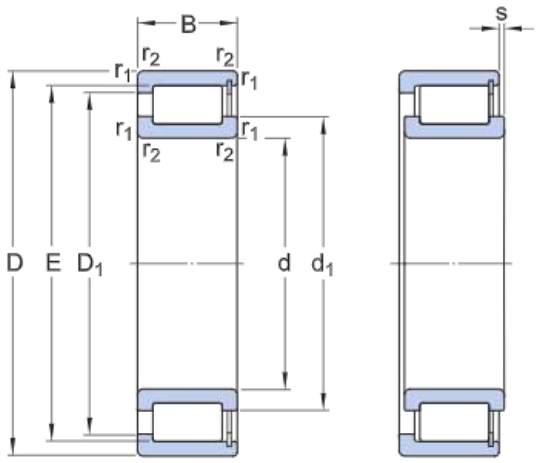
Basic dynamic load rating	1 650 kN
Basic static load rating	3 450 kN
Limiting speed	600 r/min
Reference speed	480 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

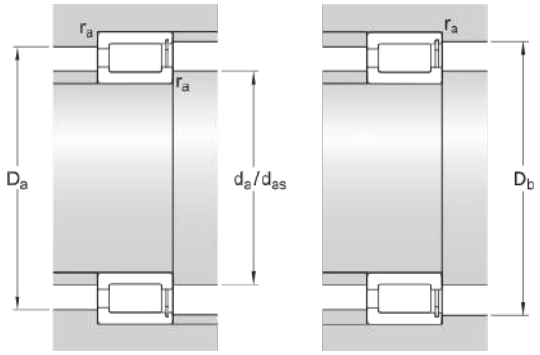
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	400 mm	Bore diameter
D	540 mm	Outside diameter
B	82 mm	Width
d_1	≈ 449 mm	Shoulder diameter inner ring
D_1	≈ 499 mm	Shoulder diameter outer ring
E	511 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 415 mm	Abutment diameter shaft
d_{as}	442 mm	Abutment diameter shaft
D_a	max. 525 mm	Abutment diameter housing
D_b	max. 525 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 650 kN

Basic static load rating	C_0	3 450 kN
Fatigue load limit	P_u	310 kN
Reference speed		480 r/min
Limiting speed		600 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	54.5 kg

NCF 2984 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	420 mm
Outside diameter	560 mm
Width	82 mm

Performance

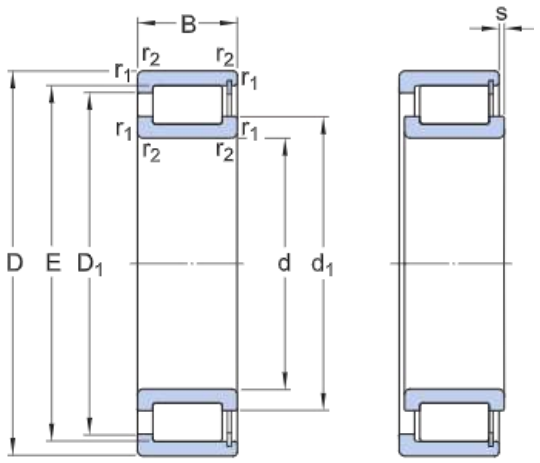
Basic dynamic load rating	1 650 kN
Basic static load rating	3 600 kN
Limiting speed	560 r/min
Reference speed	450 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

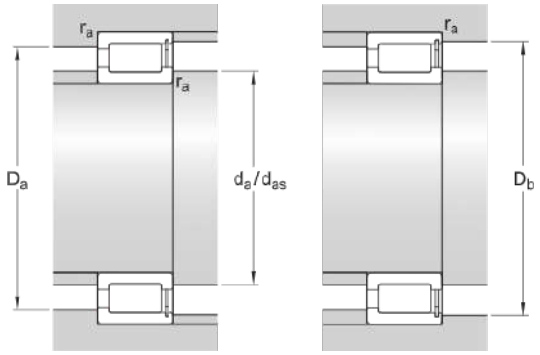
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	420 mm	Bore diameter
D	560 mm	Outside diameter
B	82 mm	Width
d_1	≈ 462 mm	Shoulder diameter inner ring
D_1	≈ 512 mm	Shoulder diameter outer ring
E	524 mm	Raceway diameter outer ring
s	max. 5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 435 mm	Abutment diameter shaft
d_{as}	455 mm	Abutment diameter shaft
D_a	max. 545 mm	Abutment diameter housing
D_b	max. 545 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 650 kN

Basic static load rating	C_0	3 600 kN
Fatigue load limit	P_u	315 kN
Reference speed		450 r/min
Limiting speed		560 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	57 kg

NCF 2988 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	440 mm
Outside diameter	600 mm
Width	95 mm

Performance

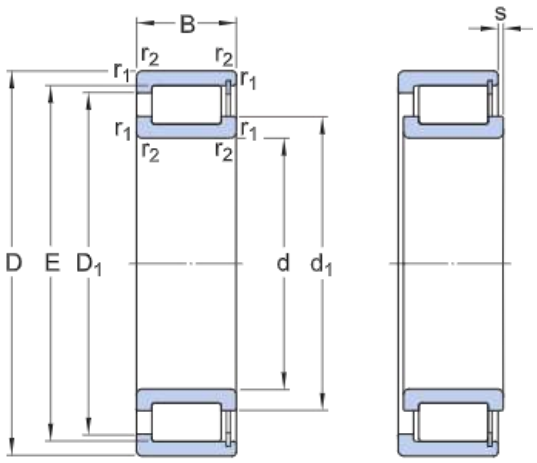
Basic dynamic load rating	2 010 kN
Basic static load rating	4 400 kN
Limiting speed	530 r/min
Reference speed	430 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

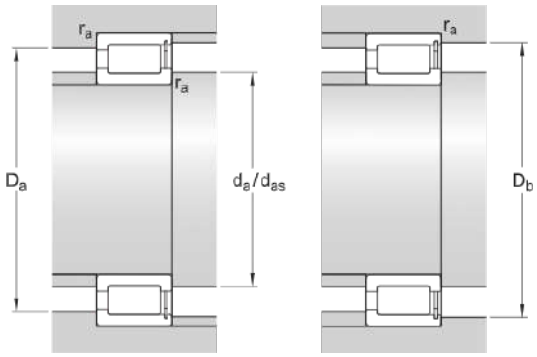
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	440 mm	Bore diameter
D	600 mm	Outside diameter
B	95 mm	Width
d_1	≈ 502 mm	Shoulder diameter inner ring
D_1	≈ 545 mm	Shoulder diameter outer ring
E	565.5 mm	Raceway diameter outer ring
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 455 mm	Abutment diameter shaft
d_{as}	492 mm	Abutment diameter shaft
D_a	max. 585 mm	Abutment diameter housing
D_b	max. 585 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 010 kN

Basic static load rating	C_0	4 400 kN
Fatigue load limit	P_u	380 kN
Reference speed		430 r/min
Limiting speed		530 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	80 kg

NCF 2992 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	460 mm
Outside diameter	620 mm
Width	95 mm

Performance

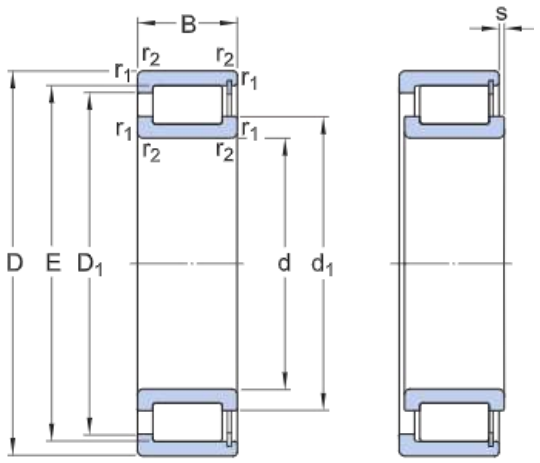
Basic dynamic load rating	2 050 kN
Basic static load rating	4 500 kN
Limiting speed	500 r/min
Reference speed	400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

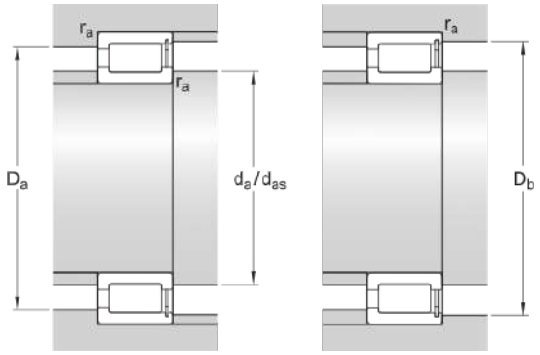
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	460 mm	Bore diameter
D	620 mm	Outside diameter
B	95 mm	Width
d_1	≈ 516 mm	Shoulder diameter inner ring
D_1	≈ 558 mm	Shoulder diameter outer ring
E	579 mm	Raceway diameter outer ring
s	max. 6 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 475 mm	Abutment diameter shaft
d_{as}	506 mm	Abutment diameter shaft
D_a	max. 605 mm	Abutment diameter housing
D_b	max. 605 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 050 kN

Basic static load rating	C_0	4 500 kN
Fatigue load limit	P_u	390 kN
Reference speed		400 r/min
Limiting speed		500 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	83 kg

NCF 2996 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	480 mm
Outside diameter	650 mm
Width	100 mm

Performance

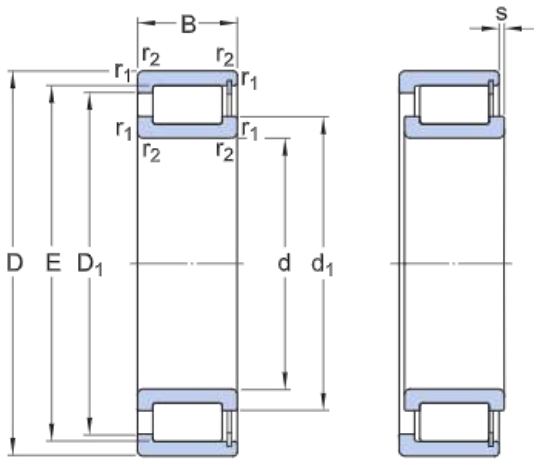
Basic dynamic load rating	2 290 kN
Basic static load rating	4 900 kN
Limiting speed	480 r/min
Reference speed	380 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

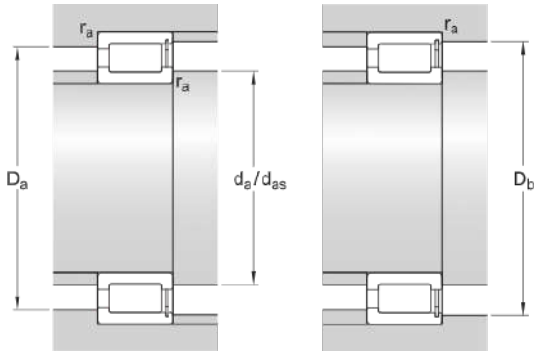
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	480 mm	Bore diameter
D	650 mm	Outside diameter
B	100 mm	Width
d_1	≈ 538 mm	Shoulder diameter inner ring
D_1	≈ 600 mm	Shoulder diameter outer ring
E	615 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 498 mm	Abutment diameter shaft
d_{as}	527 mm	Abutment diameter shaft
D_a	max. 632 mm	Abutment diameter housing
D_b	max. 632 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 290 kN

Basic static load rating	C_0	4 900 kN
Fatigue load limit	P_u	405 kN
Reference speed		380 r/min
Limiting speed		480 r/min
Calculation factor	k_r	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	93 kg

NCF 3005 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	47 mm
Width	16 mm

Performance

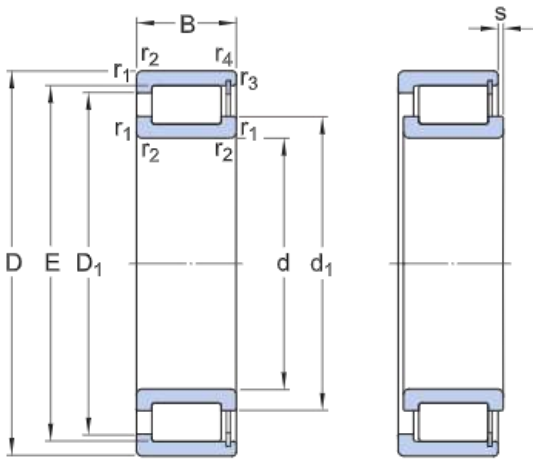
Basic dynamic load rating	31.9 kN
Basic static load rating	35.5 kN
Limiting speed	9 000 r/min
Reference speed	7 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

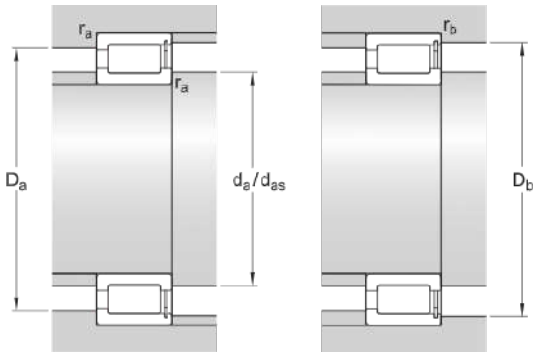
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	16 mm	Width
d_1	≈ 34 mm	Shoulder diameter inner ring
D_1	≈ 39 mm	Shoulder diameter outer ring
E	42.51 mm	Raceway diameter outer ring
s	max. 1.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 29 mm	Abutment diameter shaft
d_{as}	32.3 mm	Abutment diameter shaft
D_a	max. 43 mm	Abutment diameter housing
D_b	max. 44 mm	Abutment diameter housing
r_a	max. 0.6 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	31.9 kN
Basic static load rating	C_0	35.5 kN
Fatigue load limit	P_u	3.8 kN
Reference speed		7 000 r/min
Limiting speed		9 000 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.12 kg

NCF 3006 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	55 mm
Width	19 mm

Performance

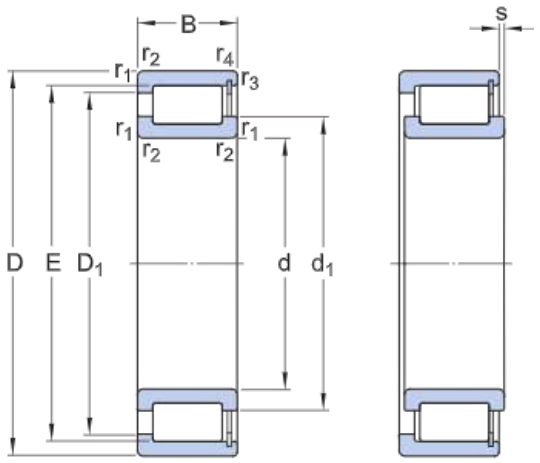
Basic dynamic load rating	39.6 kN
Basic static load rating	44 kN
Limiting speed	7 500 r/min
Reference speed	6 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

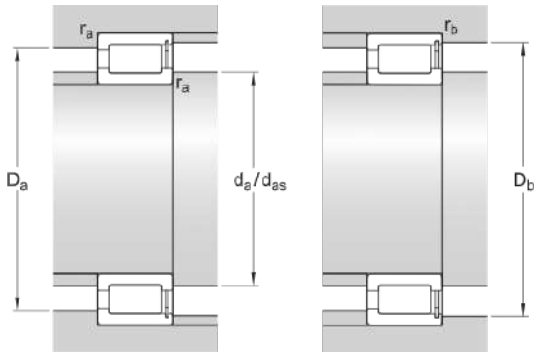
Technical Specification



Dimensions

d	30 mm	Bore diameter
D	55 mm	Outside diameter
B	19 mm	Width
d_1	≈ 40 mm	Shoulder diameter inner ring
D_1	≈ 45 mm	Shoulder diameter outer ring
E	49.6 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension

Parameter r3.4 has either the value specified here or the same value as r1.2.



Abutment dimensions

d_a	min. 35 mm	Abutment diameter shaft
d_{as}	37.8 mm	Abutment diameter shaft
D_a	max. 50 mm	Abutment diameter housing
D_b	max. 52 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	39.6 kN
Basic static load rating	C_0	44 kN

Fatigue load limit	P_u	5 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.2 kg

NCF 3007 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	62 mm
Width	20 mm

Performance

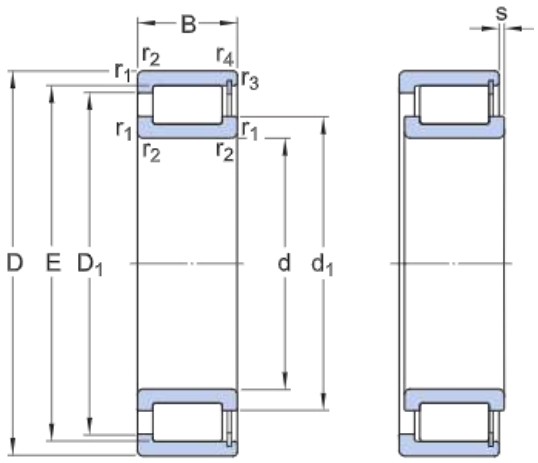
Basic dynamic load rating	48.4 kN
Basic static load rating	56 kN
Limiting speed	6 700 r/min
Reference speed	5 300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

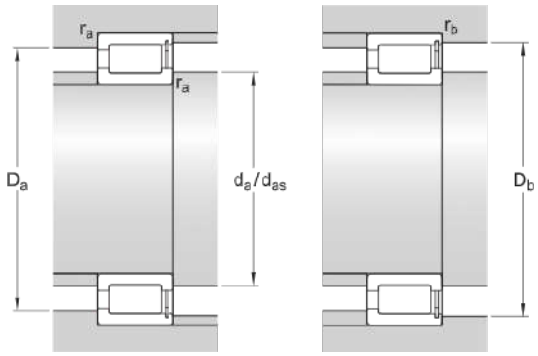
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
d_1	≈ 45 mm	Shoulder diameter inner ring
D_1	≈ 51 mm	Shoulder diameter outer ring
E	55.52 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 40 mm	Abutment diameter shaft
d_{as}	42.8 mm	Abutment diameter shaft
D_a	max. 57 mm	Abutment diameter housing
D_b	max. 58 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	48.4 kN
Basic static load rating	C_0	56 kN
Fatigue load limit	P_u	6.55 kN
Reference speed		5 300 r/min
Limiting speed		6 700 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.26 kg

NCF 3008 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	68 mm
Width	21 mm

Performance

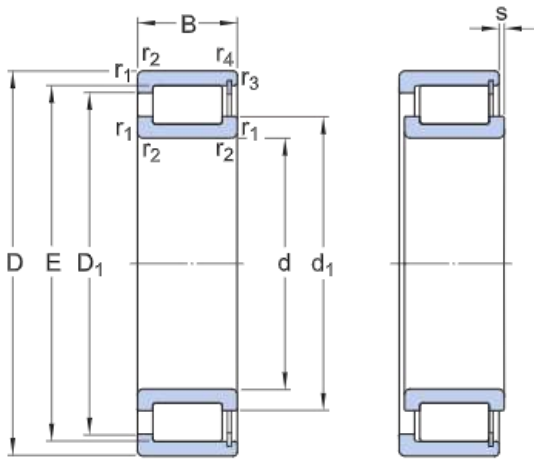
Basic dynamic load rating	57.2 kN
Basic static load rating	69.5 kN
Limiting speed	6 000 r/min
Reference speed	4 800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

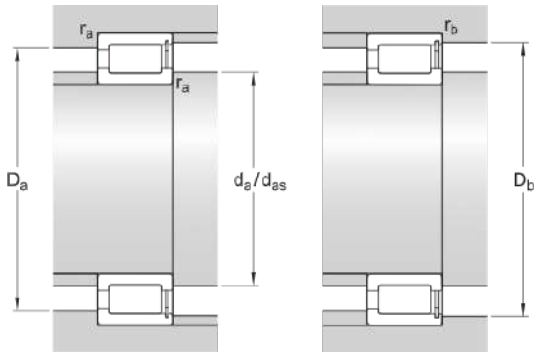
Technical Specification



Dimensions

d	40 mm	Bore diameter
D	68 mm	Outside diameter
B	21 mm	Width
d_1	≈ 50 mm	Shoulder diameter inner ring
D_1	≈ 58 mm	Shoulder diameter outer ring
E	61.74 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension

Parameter r3.4 has either the value specified here or the same value as r1.2.



Abutment dimensions

d_a	min. 45 mm	Abutment diameter shaft
d_{as}	47.9 mm	Abutment diameter shaft
D_a	max. 63 mm	Abutment diameter housing
D_b	max. 65 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	57.2 kN
Basic static load rating	C_0	69.5 kN

Fatigue load limit	P_u	8.15 kN
Reference speed		4 800 r/min
Limiting speed		6 000 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.31 kg

NCF 3009 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	75 mm
Width	23 mm

Performance

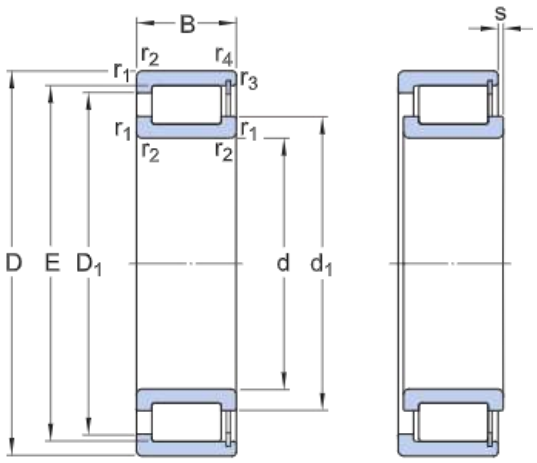
Basic dynamic load rating	60.5 kN
Basic static load rating	78 kN
Limiting speed	5 300 r/min
Reference speed	4 300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

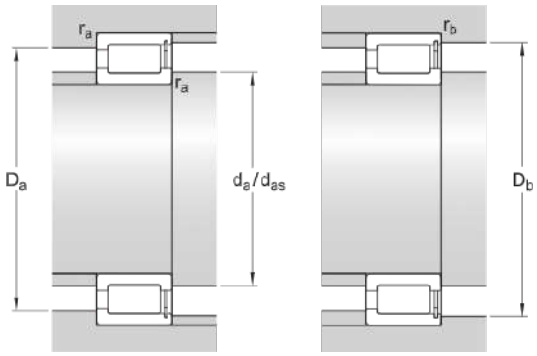
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
B	23 mm	Width
d_1	≈ 55 mm	Shoulder diameter inner ring
D_1	≈ 62 mm	Shoulder diameter outer ring
E	66.85 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 50 mm	Abutment diameter shaft
d_{as}	53 mm	Abutment diameter shaft
D_a	max. 70 mm	Abutment diameter housing
D_b	max. 71 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	60.5 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	9.15 kN
Reference speed		4 300 r/min
Limiting speed		5 300 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.4 kg

NCF 3010 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	80 mm
Width	23 mm

Performance

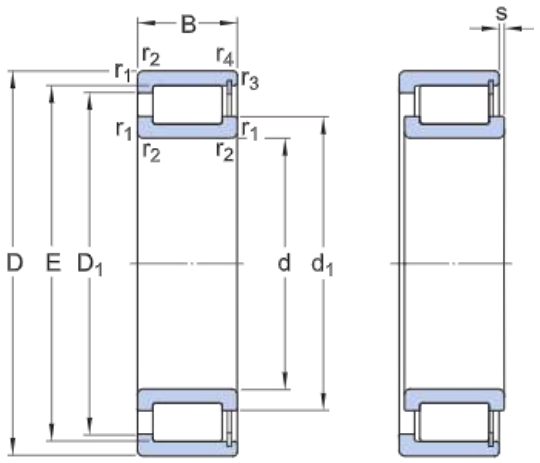
Basic dynamic load rating	76.5 kN
Basic static load rating	98 kN
Limiting speed	5 000 r/min
Reference speed	4 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

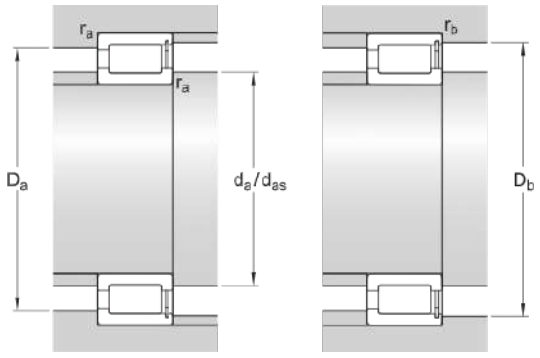
Technical Specification



Dimensions

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	23 mm	Width
d_1	≈ 59 mm	Shoulder diameter inner ring
D_1	≈ 68 mm	Shoulder diameter outer ring
E	72.33 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1 mm	Chamfer dimension
$r_{3,4}$	min. 0.3 mm	Chamfer dimension

Parameter r3.4 has either the value specified here or the same value as r1.2.



Abutment dimensions

d_a	min. 54 mm	Abutment diameter shaft
d_{as}	56.7 mm	Abutment diameter shaft
D_a	max. 75 mm	Abutment diameter housing
D_b	max. 76 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	76.5 kN
Basic static load rating	C_0	98 kN

Fatigue load limit	P_u	11.8 kN
Reference speed		4 000 r/min
Limiting speed		5 000 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.43 kg

NCF 3011 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	90 mm
Width	26 mm

Performance

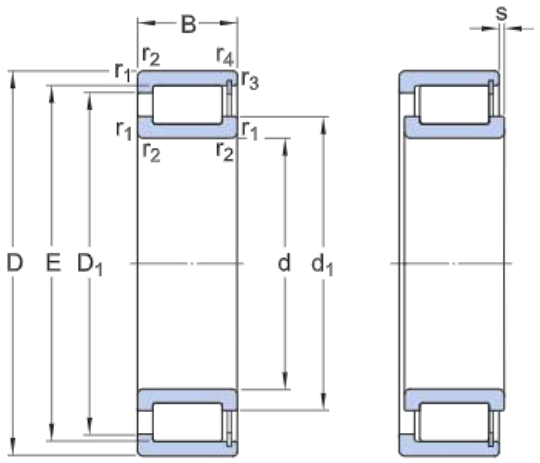
Basic dynamic load rating	105 kN
Basic static load rating	140 kN
Limiting speed	4 300 r/min
Reference speed	3 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

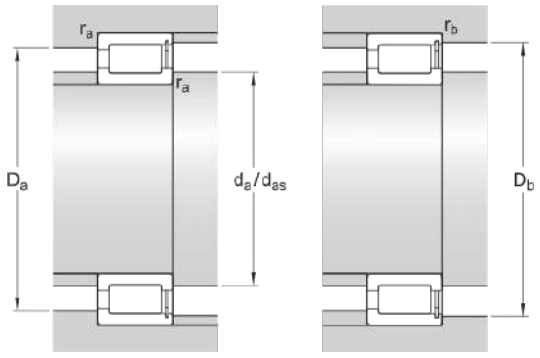
Technical Specification



Dimensions

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	26 mm	Width
d_1	≈ 68 mm	Shoulder diameter inner ring
D_1	≈ 79 mm	Shoulder diameter outer ring
E	83.54 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Parameter r3.4 has either the value specified here or the same value as r1.2.



Abutment dimensions

d_a	min. 62 mm	Abutment diameter shaft
d_{as}	65.8 mm	Abutment diameter shaft
D_a	max. 84 mm	Abutment diameter housing
D_b	max. 86 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	105 kN
Basic static load rating	C_0	140 kN

Fatigue load limit	P_u	17.3 kN
Reference speed		3 400 r/min
Limiting speed		4 300 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.64 kg

NCF 3013 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	65 mm
Outside diameter	100 mm
Width	26 mm

Performance

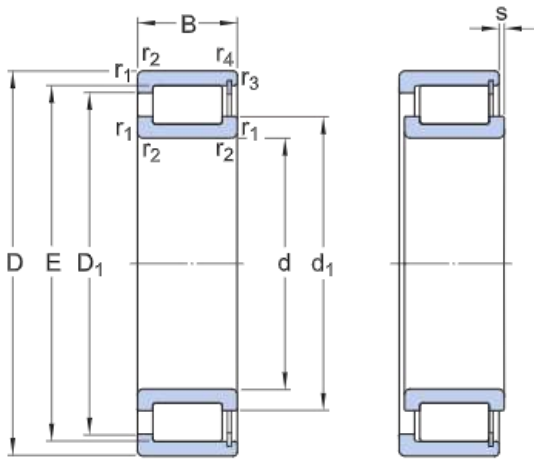
Basic dynamic load rating	112 kN
Basic static load rating	163 kN
Limiting speed	3 800 r/min
Reference speed	3 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

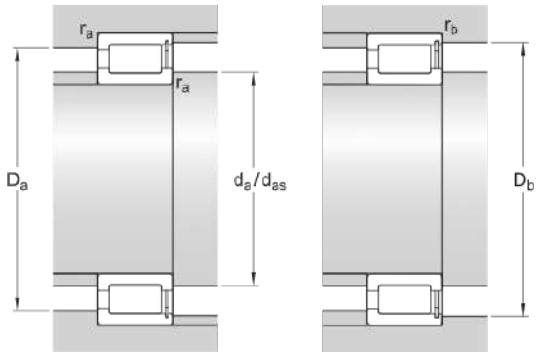
Technical Specification



Dimensions

d	65 mm	Bore diameter
D	100 mm	Outside diameter
B	26 mm	Width
d_1	≈ 78 mm	Shoulder diameter inner ring
D_1	≈ 88 mm	Shoulder diameter outer ring
E	93.09 mm	Raceway diameter outer ring
s	max. 2 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Parameter r3.4 has either the value specified here or the same value as r1.2.



Abutment dimensions

d_a	min. 71 mm	Abutment diameter shaft
d_{as}	75.6 mm	Abutment diameter shaft
D_a	max. 94 mm	Abutment diameter housing
D_b	max. 95 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	163 kN

Fatigue load limit	P_u	20 kN
Reference speed		3 000 r/min
Limiting speed		3 800 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.73 kg

NCF 3014 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	110 mm
Width	30 mm

Performance

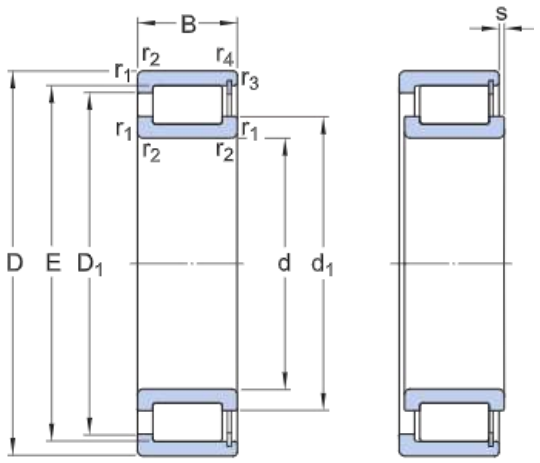
Basic dynamic load rating	128 kN
Basic static load rating	173 kN
Limiting speed	3 600 r/min
Reference speed	2 800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

Relubrication feature	Without
Sealing	Without

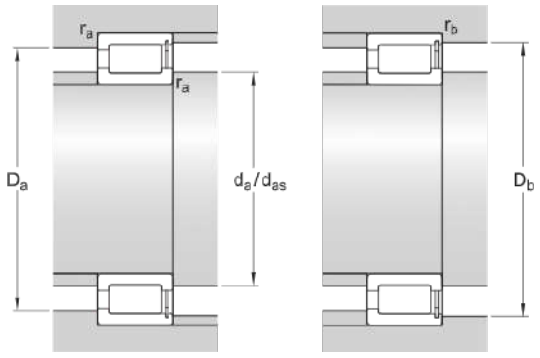
Technical Specification



Dimensions

d	70 mm	Bore diameter
D	110 mm	Outside diameter
B	30 mm	Width
d_1	≈ 81 mm	Shoulder diameter inner ring
D_1	≈ 95 mm	Shoulder diameter outer ring
E	100.28 mm	Raceway diameter outer ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension

Parameter r3.4 has either the value specified here or the same value as r1.2.



Abutment dimensions

d_a	min. 75 mm	Abutment diameter shaft
d_{as}	78.6 mm	Abutment diameter shaft
D_a	max. 104 mm	Abutment diameter housing
D_b	max. 105 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	128 kN
Basic static load rating	C_0	173 kN

Fatigue load limit	P_u	22 kN
Reference speed		2 800 r/min
Limiting speed		3 600 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1.02 kg

NCF 3015 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	75 mm
Outside diameter	115 mm
Width	30 mm

Performance

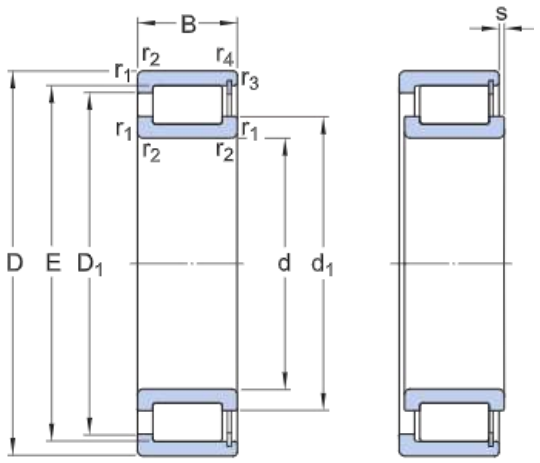
Basic dynamic load rating	134 kN
Basic static load rating	190 kN
Limiting speed	3 200 r/min
Reference speed	2 600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

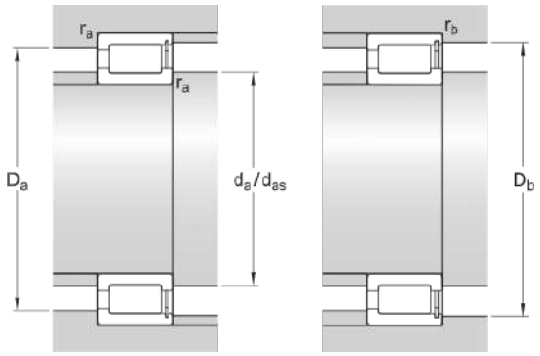
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	75 mm	Bore diameter
D	115 mm	Outside diameter
B	30 mm	Width
d_1	≈ 89 mm	Shoulder diameter inner ring
D_1	≈ 103 mm	Shoulder diameter outer ring
E	107.9 mm	Raceway diameter outer ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 81 mm	Abutment diameter shaft
d_{as}	86.5 mm	Abutment diameter shaft
D_a	max. 109 mm	Abutment diameter housing
D_b	max. 110 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	134 kN
Basic static load rating	C_0	190 kN
Fatigue load limit	P_u	24.5 kN
Reference speed		2 600 r/min
Limiting speed		3 200 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1.06 kg

NCF 3016 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	80 mm
Outside diameter	125 mm
Width	34 mm

Performance

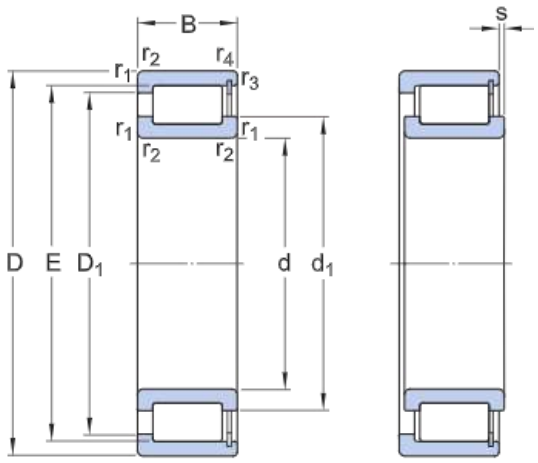
Basic dynamic load rating	165 kN
Basic static load rating	228 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

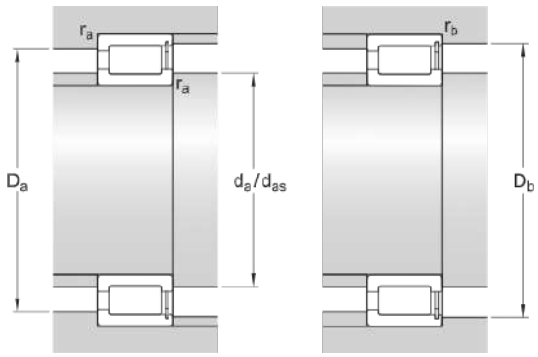
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	80 mm	Bore diameter
D	125 mm	Outside diameter
B	34 mm	Width
d_1	≈ 95 mm	Shoulder diameter inner ring
D_1	≈ 111 mm	Shoulder diameter outer ring
E	116.99 mm	Raceway diameter outer ring
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 86 mm	Abutment diameter shaft
d_{as}	92 mm	Abutment diameter shaft
D_a	max. 119 mm	Abutment diameter housing
D_b	max. 120 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	165 kN
Basic static load rating	C_0	228 kN
Fatigue load limit	P_u	29 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1.43 kg

NCF 3017 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	85 mm
Outside diameter	130 mm
Width	34 mm

Performance

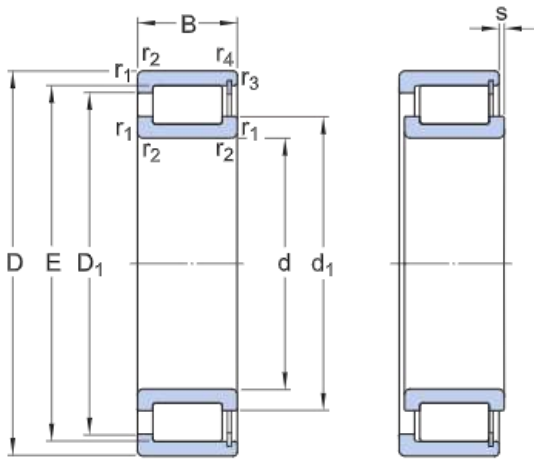
Basic dynamic load rating	172 kN
Basic static load rating	236 kN
Limiting speed	3 000 r/min
Reference speed	2 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

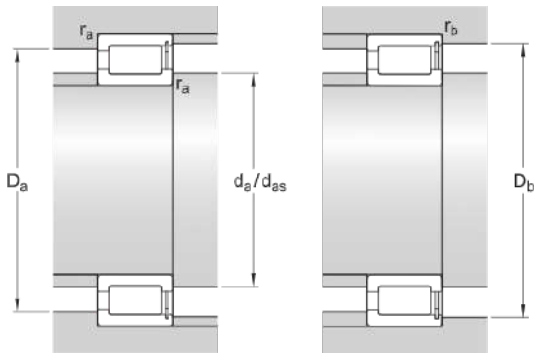
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	85 mm	Bore diameter
D	130 mm	Outside diameter
B	34 mm	Width
d_1	≈ 99 mm	Shoulder diameter inner ring
D_1	≈ 116 mm	Shoulder diameter outer ring
E	121.44 mm	Raceway diameter outer ring
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension
$r_{3,4}$	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 91 mm	Abutment diameter shaft
d_{as}	96.2 mm	Abutment diameter shaft
D_a	max. 123 mm	Abutment diameter housing
D_b	max. 125 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius
r_b	max. 0.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	172 kN
Basic static load rating	C_0	236 kN
Fatigue load limit	P_u	30 kN
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1.51 kg

NCF 3018 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	90 mm
Outside diameter	140 mm
Width	37 mm

Performance

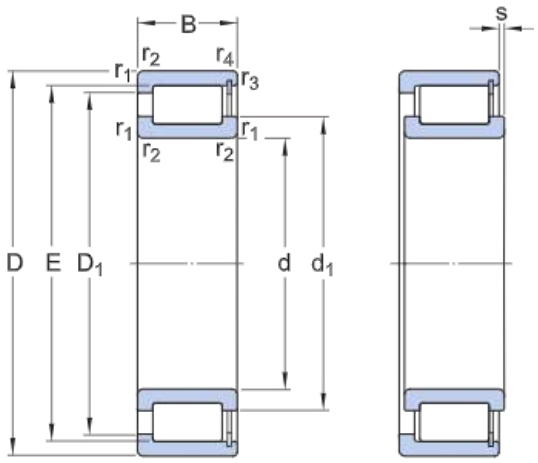
Basic dynamic load rating	198 kN
Basic static load rating	280 kN
Limiting speed	2 800 r/min
Reference speed	2 200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

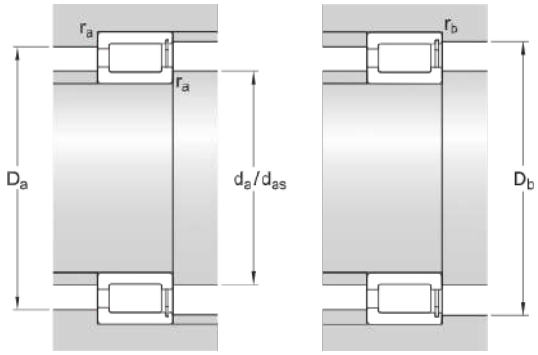
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	90 mm	Bore diameter
D	140 mm	Outside diameter
B	37 mm	Width
d_1	≈ 106 mm	Shoulder diameter inner ring
D_1	≈ 124 mm	Shoulder diameter outer ring
E	130.11 mm	Raceway diameter outer ring
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 97 mm	Abutment diameter shaft
d_{as}	103 mm	Abutment diameter shaft
D_a	max. 133 mm	Abutment diameter housing
D_b	max. 133 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	198 kN
Basic static load rating	C_0	280 kN
Fatigue load limit	P_u	35.5 kN
Reference speed		2 200 r/min
Limiting speed		2 800 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1.97 kg

NCF 3022 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	110 mm
Outside diameter	170 mm
Width	45 mm

Performance

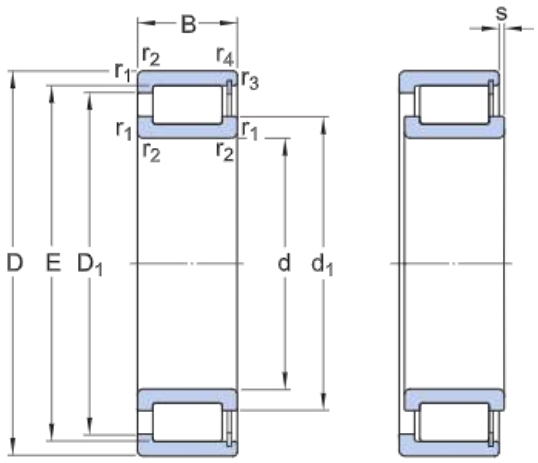
Basic dynamic load rating	275 kN
Basic static load rating	400 kN
Limiting speed	2 200 r/min
Reference speed	1 800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

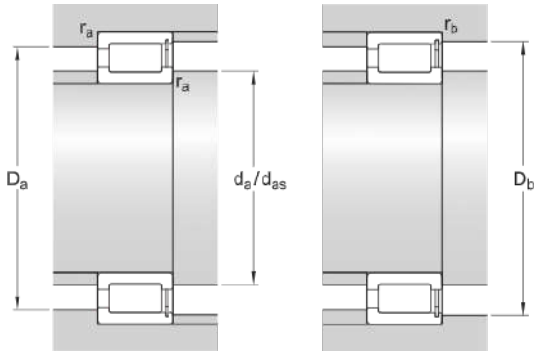
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	110 mm	Bore diameter
D	170 mm	Outside diameter
B	45 mm	Width
d_1	≈ 127 mm	Shoulder diameter inner ring
D_1	≈ 149 mm	Shoulder diameter outer ring
E	156.13 mm	Raceway diameter outer ring
s	max. 5.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 119 mm	Abutment diameter shaft
d_{as}	124 mm	Abutment diameter shaft
D_a	max. 160 mm	Abutment diameter housing
D_b	max. 163 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	275 kN
Basic static load rating	C_0	400 kN
Fatigue load limit	P_u	47.5 kN
Reference speed		1 800 r/min
Limiting speed		2 200 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	3.5 kg

NCF 3024 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	120 mm
Outside diameter	180 mm
Width	46 mm

Performance

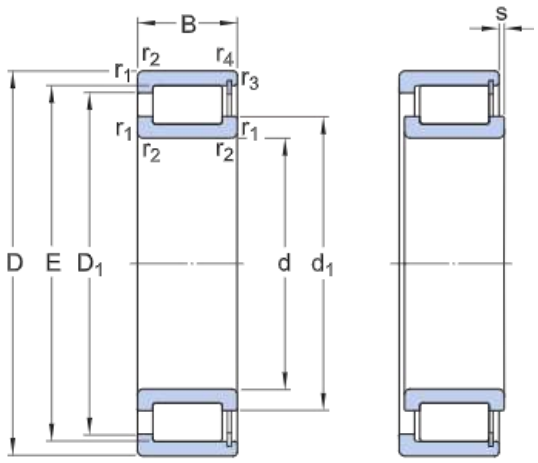
Basic dynamic load rating	292 kN
Basic static load rating	440 kN
Limiting speed	2 000 r/min
Reference speed	1 700 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

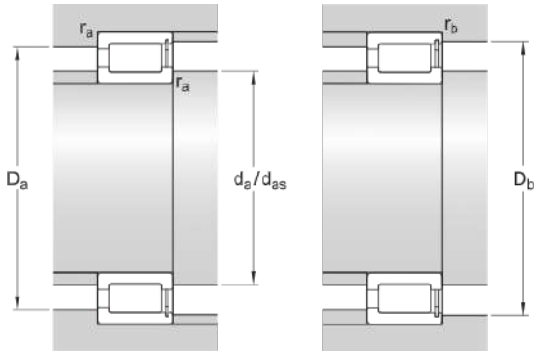
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	46 mm	Width
d_1	≈ 139 mm	Shoulder diameter inner ring
D_1	≈ 160 mm	Shoulder diameter outer ring
E	167.58 mm	Raceway diameter outer ring
s	max. 5.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 129 mm	Abutment diameter shaft
d_{as}	135 mm	Abutment diameter shaft
D_a	max. 170 mm	Abutment diameter housing
D_b	max. 174 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	292 kN
Basic static load rating	C_0	440 kN
Fatigue load limit	P_u	52 kN
Reference speed		1 700 r/min
Limiting speed		2 000 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	3.8 kg

NCF 3026 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	200 mm
Width	52 mm

Performance

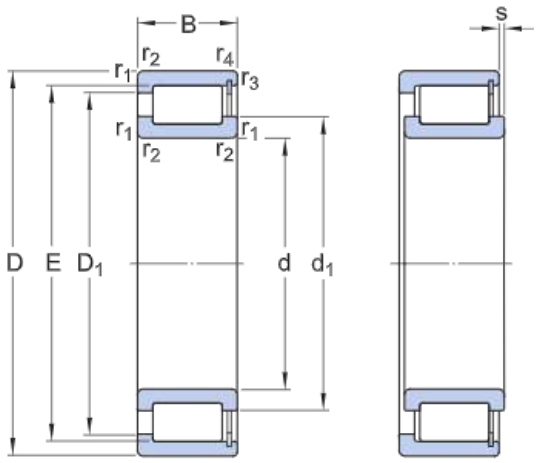
Basic dynamic load rating	413 kN
Basic static load rating	620 kN
Limiting speed	1 900 r/min
Reference speed	1 500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

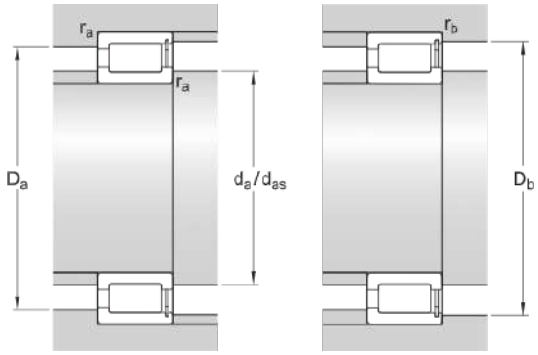
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	130 mm	Bore diameter
D	200 mm	Outside diameter
B	52 mm	Width
d_1	≈ 149 mm	Shoulder diameter inner ring
D_1	≈ 175 mm	Shoulder diameter outer ring
E	183.81 mm	Raceway diameter outer ring
s	max. 5.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 138 mm	Abutment diameter shaft
d_{as}	144 mm	Abutment diameter shaft
D_a	max. 190 mm	Abutment diameter housing
D_b	max. 193 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	413 kN
Basic static load rating	C_0	620 kN
Fatigue load limit	P_u	72 kN
Reference speed		1 500 r/min
Limiting speed		1 900 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	5.8 kg

NCF 3028 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	210 mm
Width	53 mm

Performance

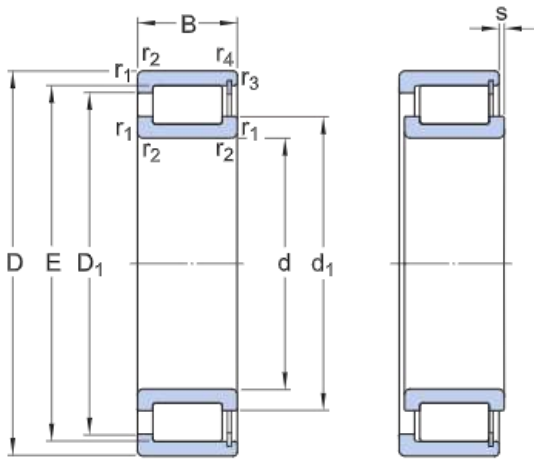
Basic dynamic load rating	440 kN
Basic static load rating	680 kN
Limiting speed	1 800 r/min
Reference speed	1 400 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

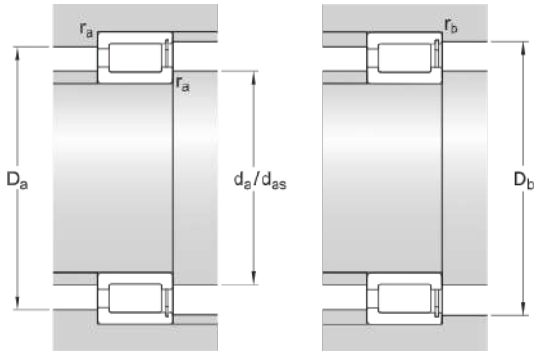
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	140 mm	Bore diameter
D	210 mm	Outside diameter
B	53 mm	Width
d_1	≈ 163 mm	Shoulder diameter inner ring
D_1	≈ 189 mm	Shoulder diameter outer ring
E	197.82 mm	Raceway diameter outer ring
s	max. 5.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 150 mm	Abutment diameter shaft
d_{as}	158 mm	Abutment diameter shaft
D_a	max. 200 mm	Abutment diameter housing
D_b	max. 203 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	440 kN
Basic static load rating	C_0	680 kN
Fatigue load limit	P_u	78 kN
Reference speed		1 400 r/min
Limiting speed		1 800 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	6.1 kg

NCF 3030 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	225 mm
Width	56 mm

Performance

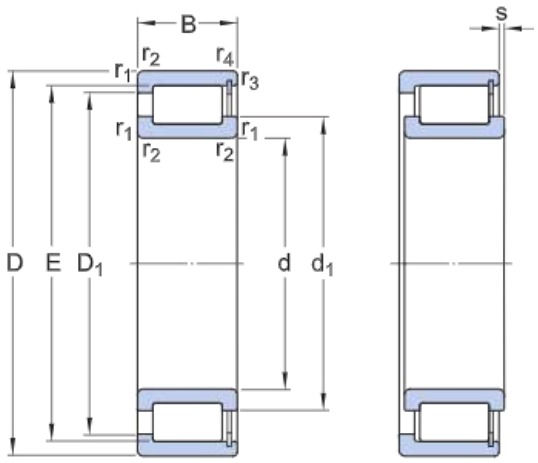
Basic dynamic load rating	457 kN
Basic static load rating	710 kN
Limiting speed	1 700 r/min
Reference speed	1 300 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

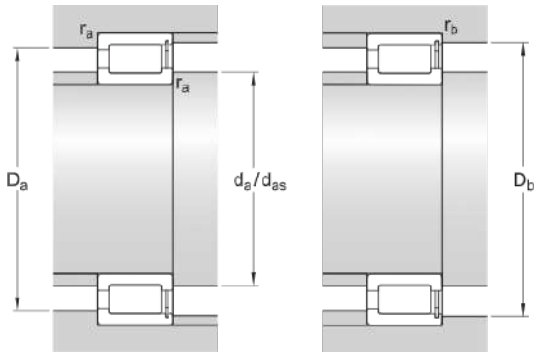
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	150 mm	Bore diameter
D	225 mm	Outside diameter
B	56 mm	Width
d_1	≈ 170 mm	Shoulder diameter inner ring
D_1	≈ 198 mm	Shoulder diameter outer ring
E	206.8 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 159 mm	Abutment diameter shaft
d_{as}	165 mm	Abutment diameter shaft
D_a	max. 214 mm	Abutment diameter housing
D_b	max. 217 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	457 kN
Basic static load rating	C_0	710 kN
Fatigue load limit	P_u	80 kN
Reference speed		1 300 r/min
Limiting speed		1 700 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	7.5 kg

NCF 3032 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	240 mm
Width	60 mm

Performance

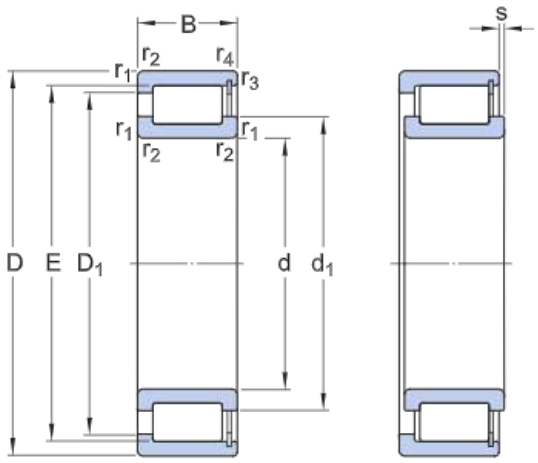
Basic dynamic load rating	512 kN
Basic static load rating	800 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

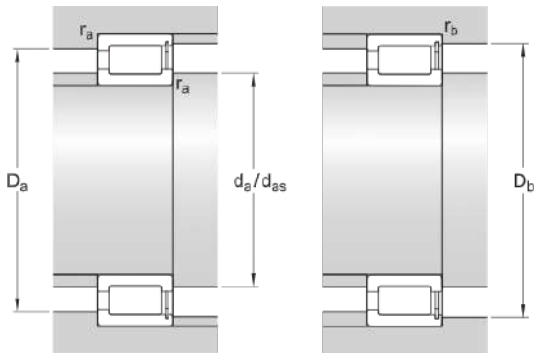
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	160 mm	Bore diameter
D	240 mm	Outside diameter
B	60 mm	Width
d_1	≈ 185 mm	Shoulder diameter inner ring
D_1	≈ 215 mm	Shoulder diameter outer ring
E	224.86 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 171 mm	Abutment diameter shaft
d_{as}	180 mm	Abutment diameter shaft
D_a	max. 230 mm	Abutment diameter housing
D_b	max. 233 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	512 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	90 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	9.1 kg

NCF 3034 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	170 mm
Outside diameter	260 mm
Width	67 mm

Performance

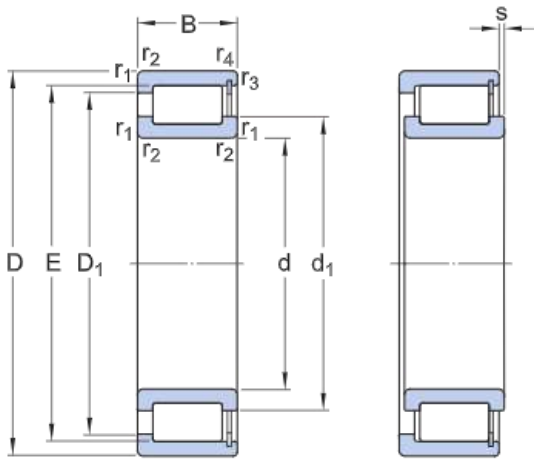
Basic dynamic load rating	671 kN
Basic static load rating	1 060 kN
Limiting speed	1 400 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

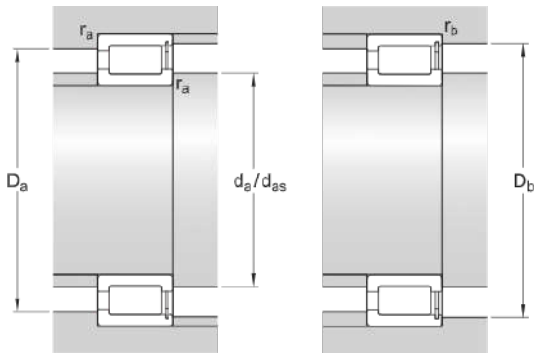
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	170 mm	Bore diameter
D	260 mm	Outside diameter
B	67 mm	Width
d_1	≈ 198 mm	Shoulder diameter inner ring
D_1	≈ 232 mm	Shoulder diameter outer ring
E	242.85 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 181 mm	Abutment diameter shaft
d_{as}	192 mm	Abutment diameter shaft
D_a	max. 249 mm	Abutment diameter housing
D_b	max. 252 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	671 kN
Basic static load rating	C_0	1 060 kN
Fatigue load limit	P_u	118 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	12.1 kg

NCF 3036 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	280 mm
Width	74 mm

Performance

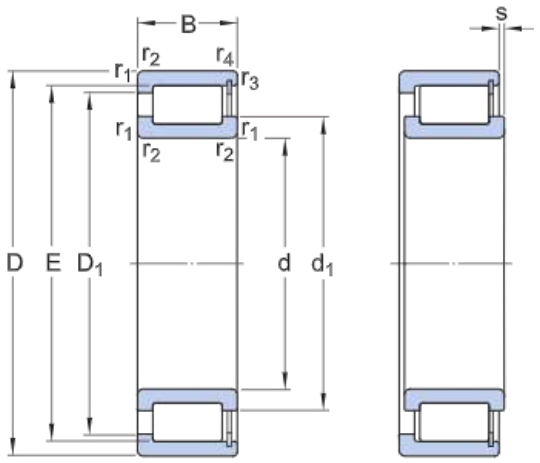
Basic dynamic load rating	781 kN
Basic static load rating	1 250 kN
Limiting speed	1 300 r/min
Reference speed	1 100 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

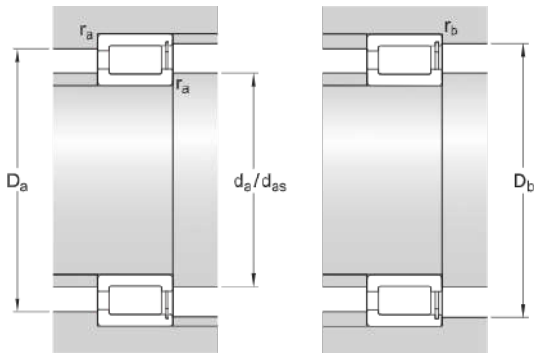
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	180 mm	Bore diameter
D	280 mm	Outside diameter
B	74 mm	Width
d_1	≈ 212 mm	Shoulder diameter inner ring
D_1	≈ 248 mm	Shoulder diameter outer ring
E	260.22 mm	Raceway diameter outer ring
s	max. 7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 192 mm	Abutment diameter shaft
d_{as}	206 mm	Abutment diameter shaft
D_a	max. 269 mm	Abutment diameter housing
D_b	max. 269 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	781 kN
Basic static load rating	C_0	1 250 kN
Fatigue load limit	P_u	134 kN
Reference speed		1 100 r/min
Limiting speed		1 300 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	16.5 kg

NCF 3038 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	290 mm
Width	75 mm

Performance

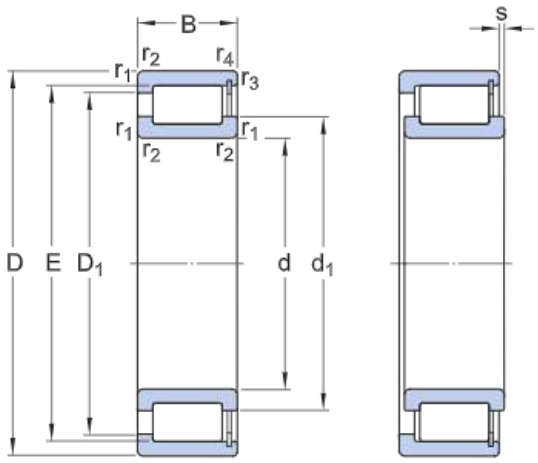
Basic dynamic load rating	792 kN
Basic static load rating	1 290 kN
Limiting speed	1 300 r/min
Reference speed	1 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

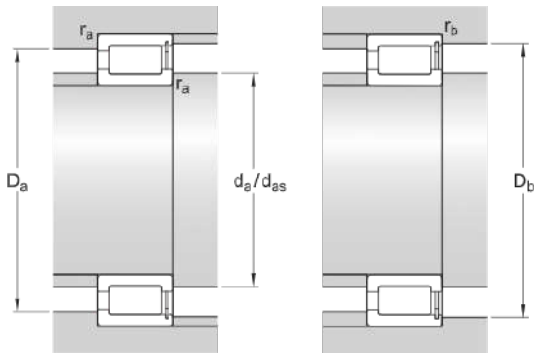
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	190 mm	Bore diameter
D	290 mm	Outside diameter
B	75 mm	Width
d_1	≈ 222 mm	Shoulder diameter inner ring
D_1	≈ 258 mm	Shoulder diameter outer ring
E	269.76 mm	Raceway diameter outer ring
s	max. 8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 202 mm	Abutment diameter shaft
d_{as}	216 mm	Abutment diameter shaft
D_a	max. 279 mm	Abutment diameter housing
D_b	max. 279 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	792 kN
Basic static load rating	C_0	1 290 kN
Fatigue load limit	P_u	140 kN
Reference speed		1 000 r/min
Limiting speed		1 300 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	17 kg

NCF 3040 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	310 mm
Width	82 mm

Performance

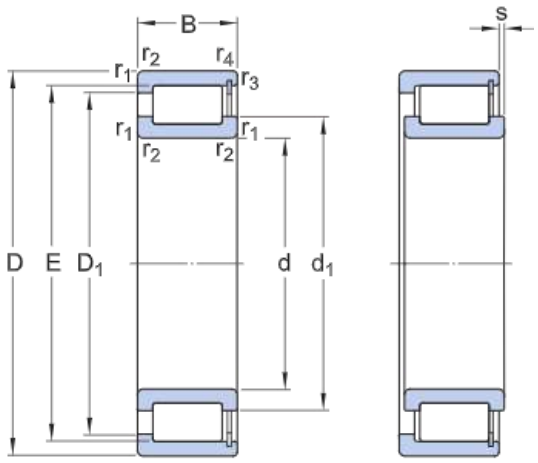
Basic dynamic load rating	913 kN
Basic static load rating	1 530 kN
Limiting speed	1 200 r/min
Reference speed	950 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

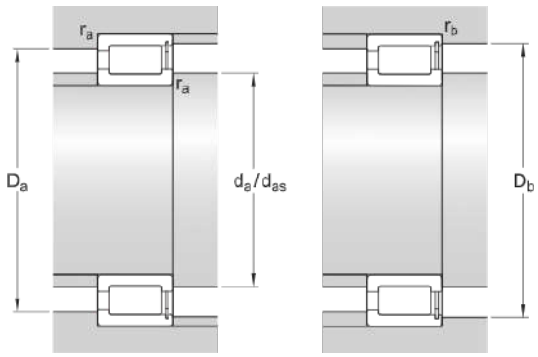
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	200 mm	Bore diameter
D	310 mm	Outside diameter
B	82 mm	Width
d_1	≈ 237 mm	Shoulder diameter inner ring
D_1	≈ 275 mm	Shoulder diameter outer ring
E	287.75 mm	Raceway diameter outer ring
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension
$r_{3,4}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 213 mm	Abutment diameter shaft
d_{as}	230 mm	Abutment diameter shaft
D_a	max. 299 mm	Abutment diameter housing
D_b	max. 299 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius
r_b	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	913 kN
Basic static load rating	C_0	1 530 kN
Fatigue load limit	P_u	160 kN
Reference speed		950 r/min
Limiting speed		1 200 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	22.5 kg

NCF 3044 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	340 mm
Width	90 mm

Performance

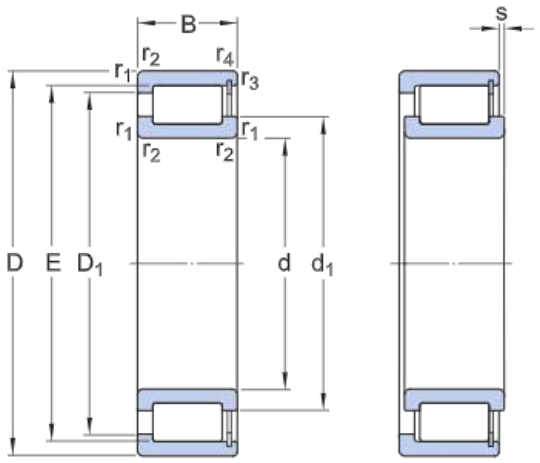
Basic dynamic load rating	1 080 kN
Basic static load rating	1 800 kN
Limiting speed	1 100 r/min
Reference speed	850 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

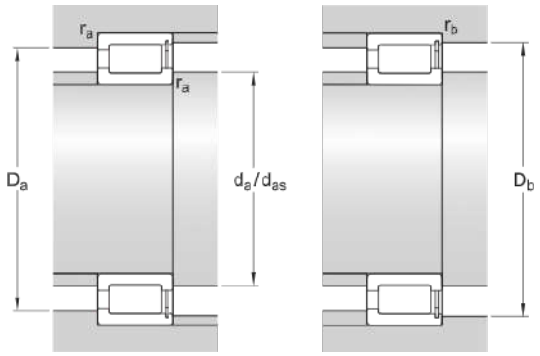
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	220 mm	Bore diameter
D	340 mm	Outside diameter
B	90 mm	Width
d_1	≈ 255 mm	Shoulder diameter inner ring
D_1	≈ 298 mm	Shoulder diameter outer ring
E	312.2 mm	Raceway diameter outer ring
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension
$r_{3,4}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 233 mm	Abutment diameter shaft
d_{as}	248 mm	Abutment diameter shaft
D_a	max. 327 mm	Abutment diameter housing
D_b	max. 327 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 080 kN
Basic static load rating	C_0	1 800 kN
Fatigue load limit	P_u	186 kN
Reference speed		850 r/min
Limiting speed		1 100 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing		29.5 kg

NCF 3048 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	360 mm
Width	92 mm

Performance

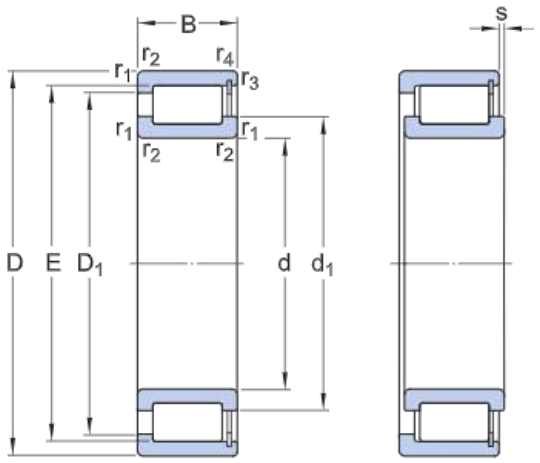
Basic dynamic load rating	1 140 kN
Basic static load rating	1 960 kN
Limiting speed	1 000 r/min
Reference speed	800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

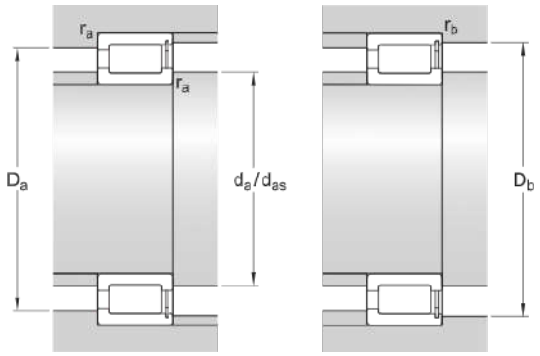
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	240 mm	Bore diameter
D	360 mm	Outside diameter
B	92 mm	Width
d_1	≈ 278 mm	Shoulder diameter inner ring
D_1	≈ 321 mm	Shoulder diameter outer ring
E	335.1 mm	Raceway diameter outer ring
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension
$r_{3,4}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 254 mm	Abutment diameter shaft
d_{as}	271 mm	Abutment diameter shaft
D_a	max. 347 mm	Abutment diameter housing
D_b	max. 347 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius
r_b	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 140 kN
Basic static load rating	C_0	1 960 kN
Fatigue load limit	P_u	200 kN
Reference speed		800 r/min
Limiting speed		1 000 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	32 kg

NCF 3052 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	260 mm
Outside diameter	400 mm
Width	104 mm

Performance

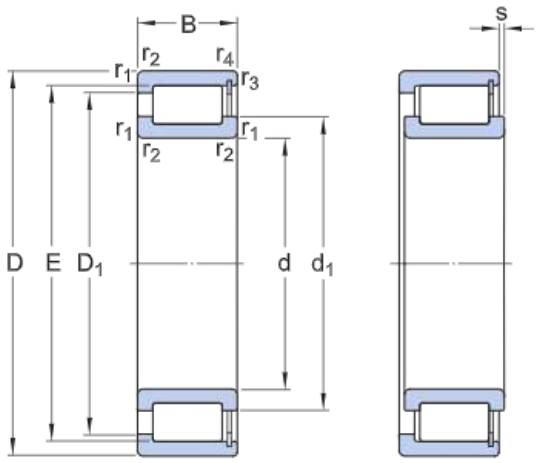
Basic dynamic load rating	1 540 kN
Basic static load rating	2 550 kN
Limiting speed	900 r/min
Reference speed	700 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

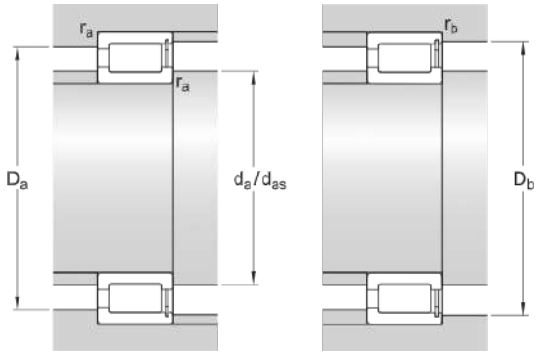
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	260 mm	Bore diameter
D	400 mm	Outside diameter
B	104 mm	Width
d_1	≈ 304 mm	Shoulder diameter inner ring
D_1	≈ 358 mm	Shoulder diameter outer ring
E	375.97 mm	Raceway diameter outer ring
s	max. 11 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension
$r_{3,4}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 277 mm	Abutment diameter shaft
d_{as}	295 mm	Abutment diameter shaft
D_a	max. 384 mm	Abutment diameter housing
D_b	max. 384 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 540 kN
Basic static load rating	C_0	2 550 kN
Fatigue load limit	P_u	250 kN
Reference speed		700 r/min
Limiting speed		900 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	46.5 kg

NCF 3064 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	320 mm
Outside diameter	480 mm
Width	121 mm

Performance

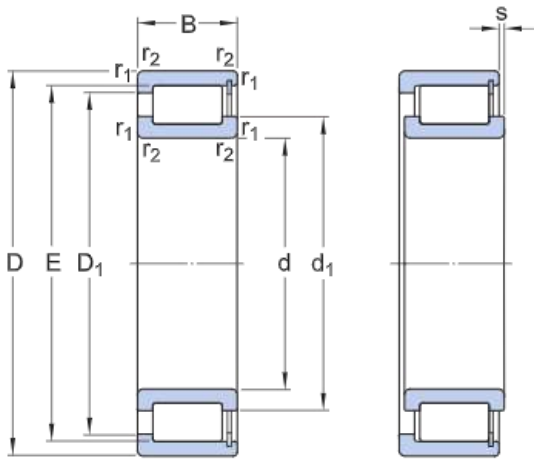
Basic dynamic load rating	1 980 kN
Basic static load rating	3 450 kN
Limiting speed	700 r/min
Reference speed	560 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

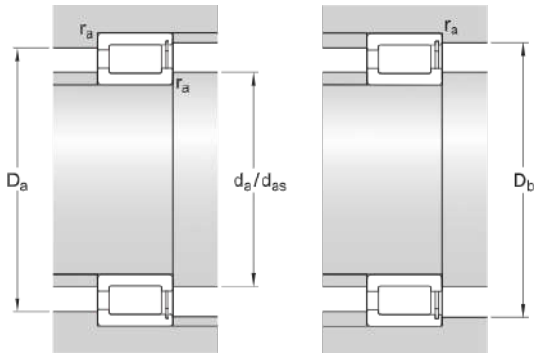
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	320 mm	Bore diameter
D	480 mm	Outside diameter
B	121 mm	Width
d_1	≈ 368 mm	Shoulder diameter inner ring
D_1	≈ 434 mm	Shoulder diameter outer ring
E	449.5 mm	Raceway diameter outer ring
s	max. 14 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

d_a	min. 335 mm	Abutment diameter shaft
d_{as}	359 mm	Abutment diameter shaft
D_a	max. 465 mm	Abutment diameter housing
D_b	max. 465 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 980 kN

Basic static load rating	C_0	3 450 kN
Fatigue load limit	P_u	310 kN
Reference speed		560 r/min
Limiting speed		700 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	71 kg

NCF 3068 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	340 mm
Outside diameter	520 mm
Width	133 mm

Performance

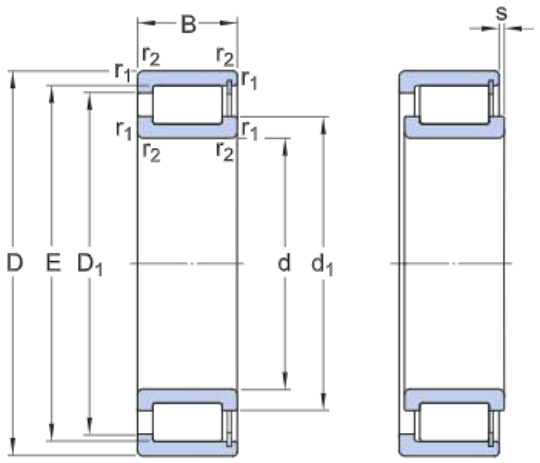
Basic dynamic load rating	2 380 kN
Basic static load rating	4 150 kN
Limiting speed	670 r/min
Reference speed	530 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

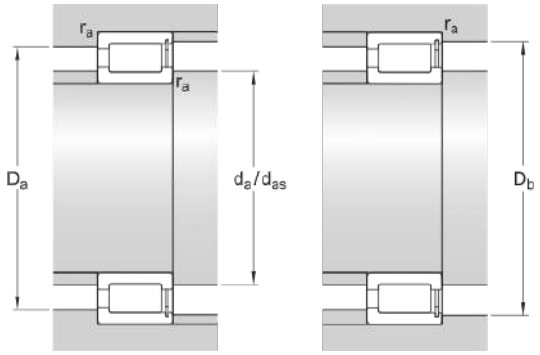
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	340 mm	Bore diameter
D	520 mm	Outside diameter
B	133 mm	Width
d_1	≈ 395 mm	Shoulder diameter inner ring
D_1	≈ 468 mm	Shoulder diameter outer ring
E	485.65 mm	Raceway diameter outer ring
s	max. 14 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 358 mm	Abutment diameter shaft
d_{as}	384 mm	Abutment diameter shaft
D_a	max. 502 mm	Abutment diameter housing
D_b	max. 502 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 380 kN
Basic static load rating	C_0	4 150 kN

Fatigue load limit	P_u	355 kN
Reference speed		530 r/min
Limiting speed		670 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	95 kg

NCF 3072 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	360 mm
Outside diameter	540 mm
Width	134 mm

Performance

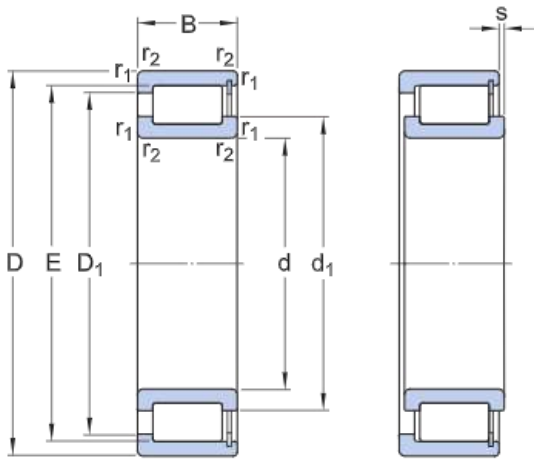
Basic dynamic load rating	2 420 kN
Basic static load rating	4 300 kN
Limiting speed	630 r/min
Reference speed	500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

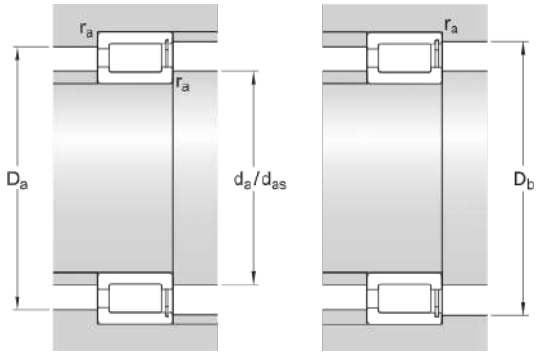
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	360 mm	Bore diameter
D	540 mm	Outside diameter
B	134 mm	Width
d_1	≈ 412 mm	Shoulder diameter inner ring
D_1	≈ 486 mm	Shoulder diameter outer ring
E	503.45 mm	Raceway diameter outer ring
s	max. 14 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 378 mm	Abutment diameter shaft
d_{as}	402 mm	Abutment diameter shaft
D_a	max. 522 mm	Abutment diameter housing
D_b	max. 522 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 420 kN
Basic static load rating	C_0	4 300 kN

Fatigue load limit	P_u	365 kN
Reference speed		500 r/min
Limiting speed		630 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	105 kg

NCF 3076 V

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	380 mm
Outside diameter	560 mm
Width	135 mm

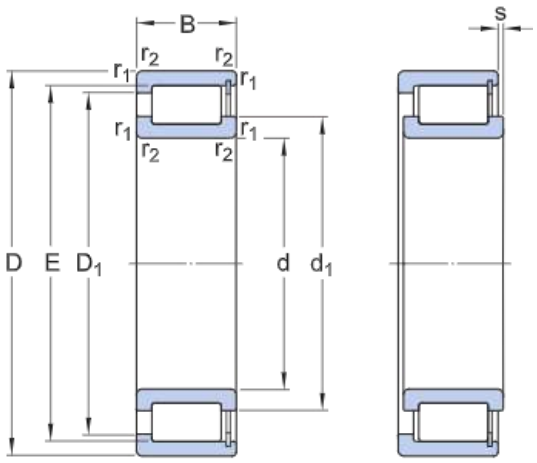
Performance

Basic dynamic load rating	2 700 kN
Basic static load rating	5 100 kN
Limiting speed	600 r/min
Reference speed	480 r/min

Properties

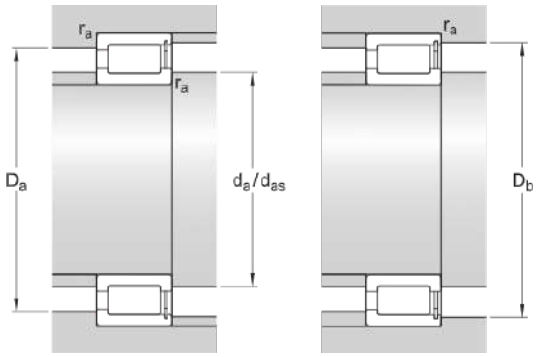
Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without

Technical Specification



Dimensions

d	380 mm	Bore diameter
D	560 mm	Outside diameter
B	135 mm	Width
d_1	≈ 431 mm	Shoulder diameter inner ring
D_1	≈ 504 mm	Shoulder diameter outer ring
E	520.5 mm	Raceway diameter outer ring
s	max. 14 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 398 mm	Abutment diameter shaft
d_{as}	420 mm	Abutment diameter shaft
D_a	max. 542 mm	Abutment diameter housing
D_b	max. 542 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 700 kN

Basic static load rating	C_0	5 100 kN
Fatigue load limit	P_u	425 kN
Reference speed		480 r/min
Limiting speed		600 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	110 kg

NCF 3080 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	600 mm
Width	148 mm

Performance

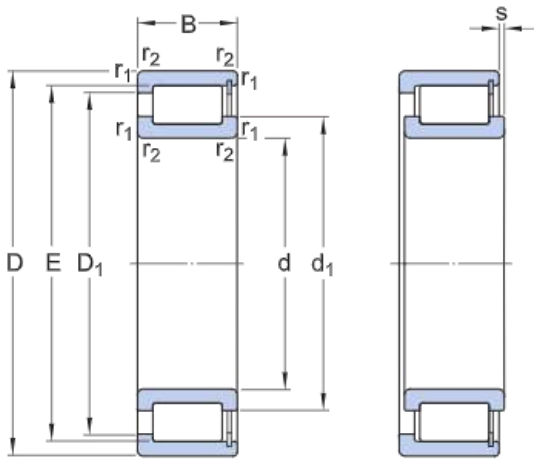
Basic dynamic load rating	2 970 kN
Basic static load rating	5 500 kN
Limiting speed	560 r/min
Reference speed	450 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

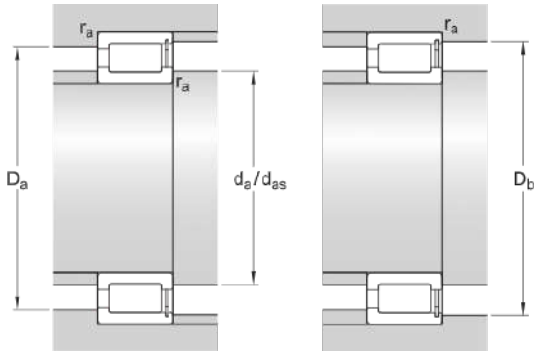
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	400 mm	Bore diameter
D	600 mm	Outside diameter
B	148 mm	Width
d_1	≈ 460 mm	Shoulder diameter inner ring
D_1	≈ 540 mm	Shoulder diameter outer ring
E	558 mm	Raceway diameter outer ring
s	max. 14 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 418 mm	Abutment diameter shaft
d_{as}	449 mm	Abutment diameter shaft
D_a	max. 582 mm	Abutment diameter housing
D_b	max. 582 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 970 kN
Basic static load rating	C_0	5 500 kN

Fatigue load limit	P_u	450 kN
Reference speed		450 r/min
Limiting speed		560 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing		145 kg

NCF 3084 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	420 mm
Outside diameter	620 mm
Width	150 mm

Performance

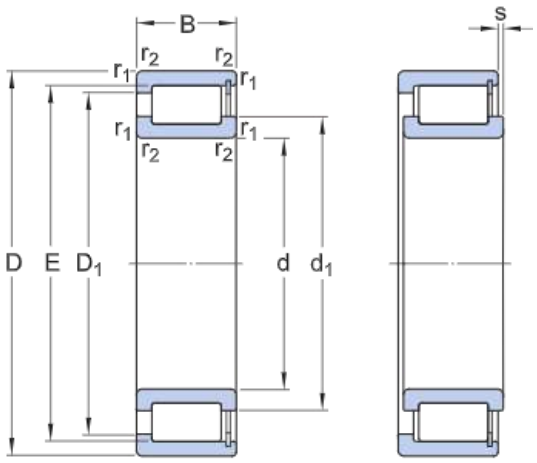
Basic dynamic load rating	3 030 kN
Basic static load rating	5 700 kN
Limiting speed	530 r/min
Reference speed	430 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

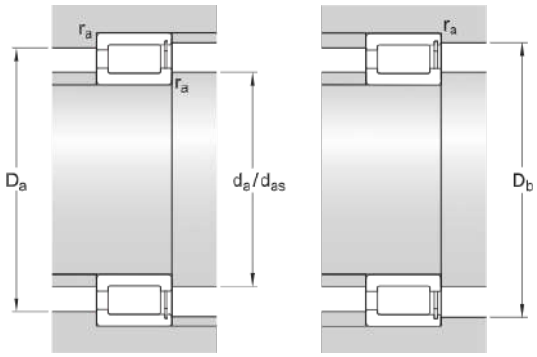
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	420 mm	Bore diameter
D	620 mm	Outside diameter
B	150 mm	Width
d_1	≈ 480 mm	Shoulder diameter inner ring
D_1	≈ 559 mm	Shoulder diameter outer ring
E	577.6 mm	Raceway diameter outer ring
s	max. 15 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 438 mm	Abutment diameter shaft
d_{as}	469 mm	Abutment diameter shaft
D_a	max. 602 mm	Abutment diameter housing
D_b	max. 602 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 030 kN

Basic static load rating	C_0	5 700 kN
Fatigue load limit	P_u	455 kN
Reference speed		430 r/min
Limiting speed		530 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	150 kg

NCF 3092 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	460 mm
Outside diameter	680 mm
Width	163 mm

Performance

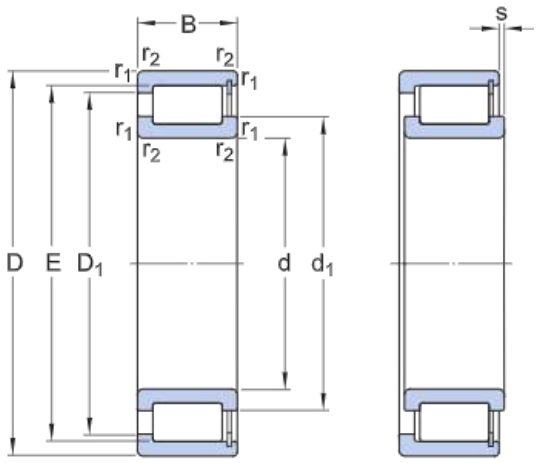
Basic dynamic load rating	3 690 kN
Basic static load rating	6 950 kN
Limiting speed	480 r/min
Reference speed	380 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

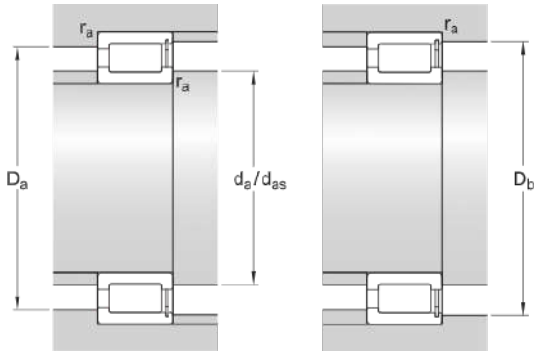
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	460 mm	Bore diameter
D	680 mm	Outside diameter
B	163 mm	Width
d_1	≈ 522 mm	Shoulder diameter inner ring
D_1	≈ 611 mm	Shoulder diameter outer ring
E	632.97 mm	Raceway diameter outer ring
s	max. 16 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 483 mm	Abutment diameter shaft
d_{as}	511 mm	Abutment diameter shaft
D_a	max. 657 mm	Abutment diameter housing
D_b	max. 657 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 690 kN
Basic static load rating	C_0	6 950 kN

Fatigue load limit	P_u	540 kN
Reference speed		380 r/min
Limiting speed		480 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing		195 kg

NCF 3096 CV

Single row full complement cylindrical roller bearing, NCF design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction

Overview

Dimensions

Bore diameter	480 mm
Outside diameter	700 mm
Width	165 mm

Performance

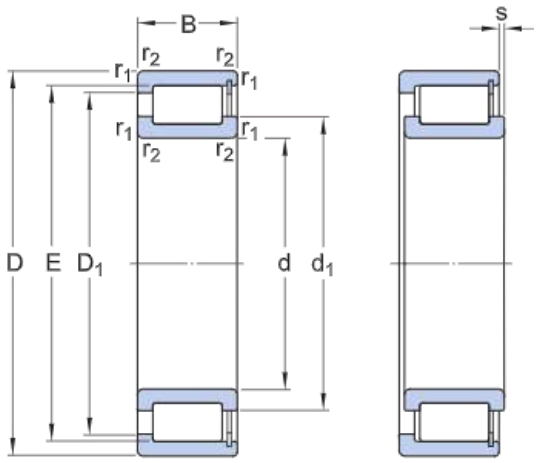
Basic dynamic load rating	3 740 kN
Basic static load rating	7 200 kN
Limiting speed	450 r/min
Reference speed	360 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Non-separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	2
Number of flanges, outer ring	1
Number of rows	1
Radial internal clearance	CN

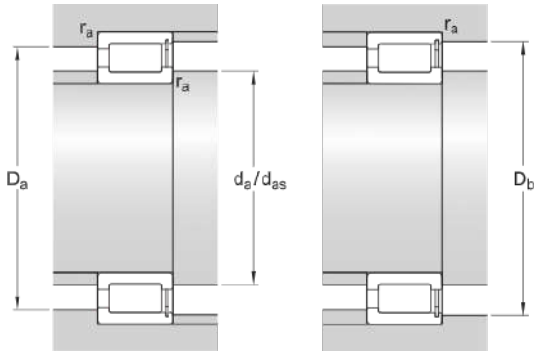
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	480 mm	Bore diameter
D	700 mm	Outside diameter
B	165 mm	Width
d_1	≈ 546 mm	Shoulder diameter inner ring
D_1	≈ 628 mm	Shoulder diameter outer ring
E	654 mm	Raceway diameter outer ring
s	max. 16 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 503 mm	Abutment diameter shaft
d_{as}	532 mm	Abutment diameter shaft
D_a	max. 677 mm	Abutment diameter housing
D_b	max. 677 mm	Abutment diameter housing
r_a	max. 5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3 740 kN
Basic static load rating	C_0	7 200 kN

Fatigue load limit	P_u	550 kN
Reference speed		360 r/min
Limiting speed		450 r/min
Calculation factor	k_r	0.3
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	205 kg

NJG 309 VH

Single row full complement cylindrical roller bearing, NJG design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the outer ring and one on the inner ring, NJG design bearings can accommodate axial displacement in one direction. A self-retaining roller complement enables the bearing components to be separated, which facilitates mounting and enables the bearing components to be interchanged.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

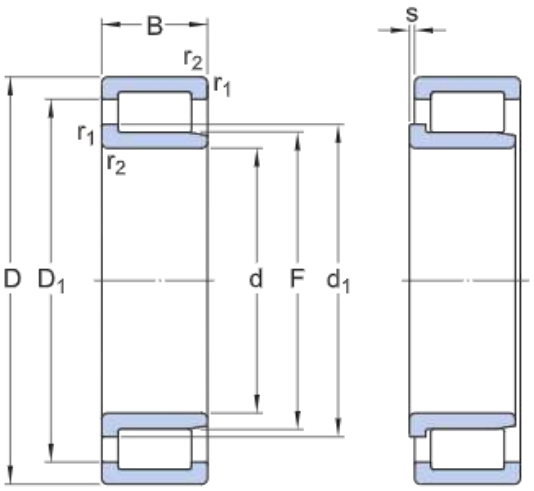
Basic dynamic load rating	110 kN
Basic static load rating	112 kN
Limiting speed	9 000 r/min
Reference speed	7 500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1

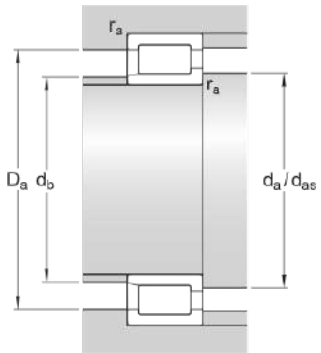
Radial internal clearance	NSTD
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
d_1	≈ 62.5 mm	Shoulder diameter inner ring
D_1	≈ 80.1 mm	Shoulder diameter outer ring
F	56.14 mm	Raceway diameter inner ring
s	max. 1.7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 54 mm	Abutment diameter shaft
d_{as}	59.3 mm	Abutment diameter shaft
d_b	max. 54 mm	Abutment diameter shaft
D_a	max. 91 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	110 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	14 kN
Reference speed		7 500 r/min
Limiting speed		9 000 r/min
Calculation factor	k_r	0.35
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing	0.94 kg

NJG 2305 VH

Single row full complement cylindrical roller bearing, NJG design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the outer ring and one on the inner ring, NJG design bearings can accommodate axial displacement in one direction. A self-retaining roller complement enables the bearing components to be separated, which facilitates mounting and enables the bearing components to be interchanged.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	24 mm

Performance

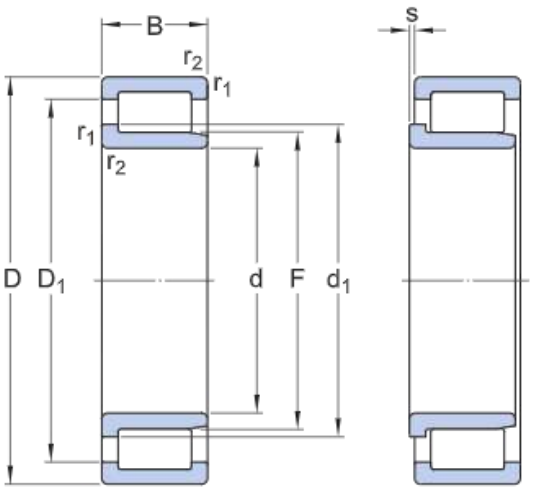
Basic dynamic load rating	68.2 kN
Basic static load rating	68 kN
Limiting speed	5 600 r/min
Reference speed	4 500 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1

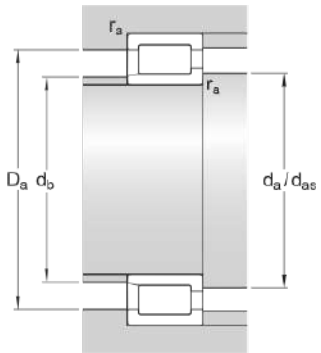
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
d_1	≈ 36.1 mm	Shoulder diameter inner ring
D_1	≈ 48.2 mm	Shoulder diameter outer ring
F	31.74 mm	Raceway diameter inner ring
s	max. 1.7 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 31 mm	Abutment diameter shaft
d_{as}	33.9 mm	Abutment diameter shaft
d_b	max. 30 mm	Abutment diameter shaft
D_a	max. 55 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	68.2 kN
Basic static load rating	C_0	68 kN
Fatigue load limit	P_u	8.5 kN
Reference speed		4 500 r/min
Limiting speed		5 600 r/min
Calculation factor	k_r	0.35
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.38 kg

NJG 2306 VH

Single row full complement cylindrical roller bearing, NJG design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the outer ring and one on the inner ring, NJG design bearings can accommodate axial displacement in one direction. A self-retaining roller complement enables the bearing components to be separated, which facilitates mounting and enables the bearing components to be interchanged.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width	27 mm

Performance

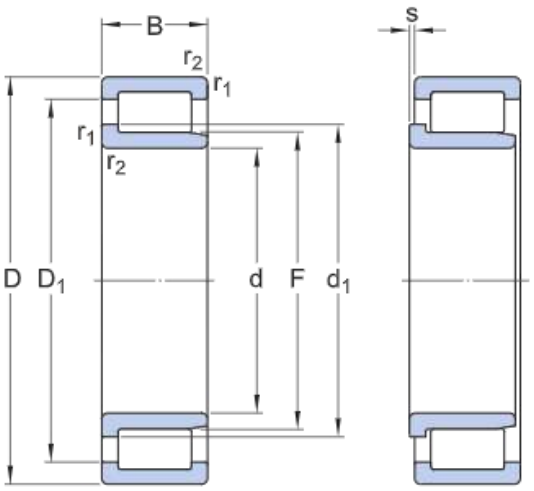
Basic dynamic load rating	84.2 kN
Basic static load rating	86.5 kN
Limiting speed	4 800 r/min
Reference speed	4 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1

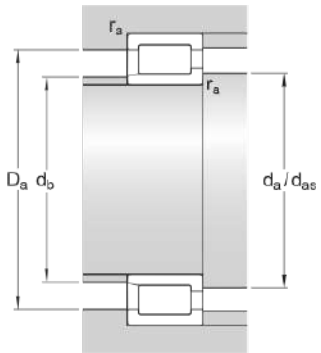
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
B	27 mm	Width
d_1	≈ 43.2 mm	Shoulder diameter inner ring
D_1	≈ 56.4 mm	Shoulder diameter outer ring
F	38.36 mm	Raceway diameter inner ring
s	max. 1.8 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 37 mm	Abutment diameter shaft
d_{as}	40.8 mm	Abutment diameter shaft
d_b	max. 36.5 mm	Abutment diameter shaft
D_a	max. 64 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	84.2 kN
Basic static load rating	C_0	86.5 kN
Fatigue load limit	P_u	11 kN
Reference speed		4 000 r/min
Limiting speed		4 800 r/min
Calculation factor	k_r	0.35
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	0.56 kg

NJG 2308 VH

Single row full complement cylindrical roller bearing, NJG design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the outer ring and one on the inner ring, NJG design bearings can accommodate axial displacement in one direction. A self-retaining roller complement enables the bearing components to be separated, which facilitates mounting and enables the bearing components to be interchanged.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

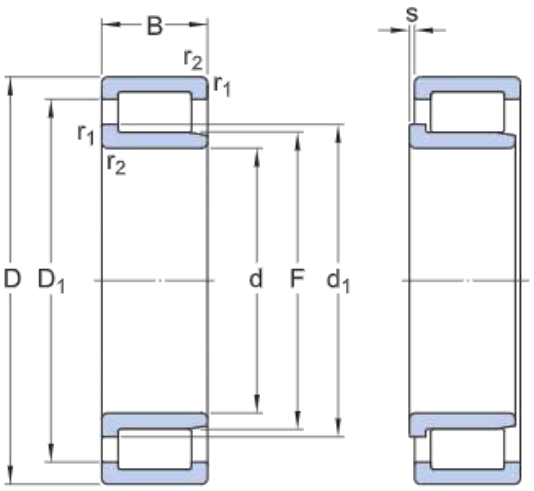
Basic dynamic load rating	145 kN
Basic static load rating	156 kN
Limiting speed	3 600 r/min
Reference speed	3 000 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1

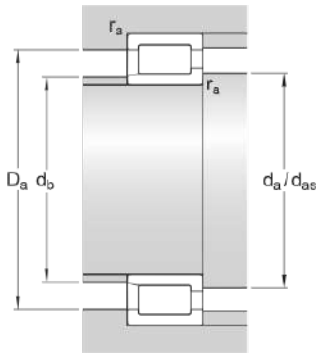
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d_1	≈ 59.1 mm	Shoulder diameter inner ring
D_1	≈ 75.2 mm	Shoulder diameter outer ring
F	51.15 mm	Raceway diameter inner ring
s	max. 2.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 49 mm	Abutment diameter shaft
d_{as}	54.4 mm	Abutment diameter shaft
d_b	max. 49 mm	Abutment diameter shaft
D_a	max. 81 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	145 kN
Basic static load rating	C_0	156 kN
Fatigue load limit	P_u	20 kN
Reference speed		3 000 r/min
Limiting speed		3 600 r/min
Calculation factor	k_r	0.35
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1 kg

NJG 2309 VH

Single row full complement cylindrical roller bearing, NJG design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the outer ring and one on the inner ring, NJG design bearings can accommodate axial displacement in one direction. A self-retaining roller complement enables the bearing components to be separated, which facilitates mounting and enables the bearing components to be interchanged.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	36 mm

Performance

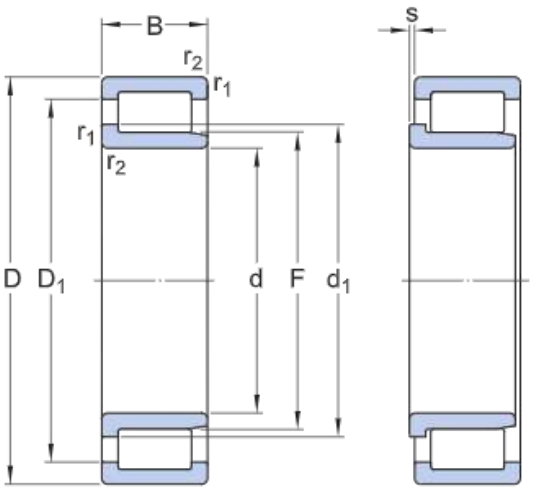
Basic dynamic load rating	172 kN
Basic static load rating	196 kN
Limiting speed	3 400 r/min
Reference speed	2 800 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1

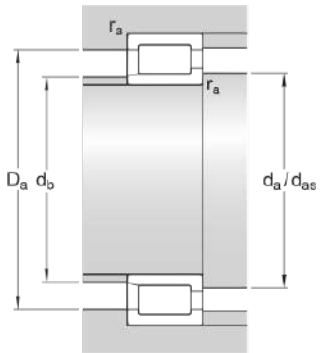
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
d_1	≈ 62.5 mm	Shoulder diameter inner ring
D_1	≈ 80.1 mm	Shoulder diameter outer ring
F	56.14 mm	Raceway diameter inner ring
s	max. 2.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 54 mm	Abutment diameter shaft
d_{as}	59.3 mm	Abutment diameter shaft
d_b	max. 54 mm	Abutment diameter shaft
D_a	max. 91 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	172 kN
Basic static load rating	C_0	196 kN
Fatigue load limit	P_u	25.5 kN
Reference speed		2 800 r/min
Limiting speed		3 400 r/min
Calculation factor	k_r	0.35
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	1.4 kg

NJG 2313 VH

Single row full complement cylindrical roller bearing, NJG design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the outer ring and one on the inner ring, NJG design bearings can accommodate axial displacement in one direction. A self-retaining roller complement enables the bearing components to be separated, which facilitates mounting and enables the bearing components to be interchanged.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	65 mm
Outside diameter	140 mm
Width	48 mm

Performance

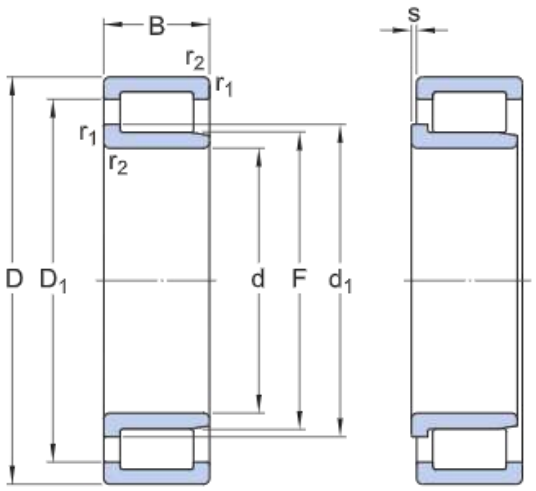
Basic dynamic load rating	303 kN
Basic static load rating	360 kN
Limiting speed	2 400 r/min
Reference speed	1 900 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1

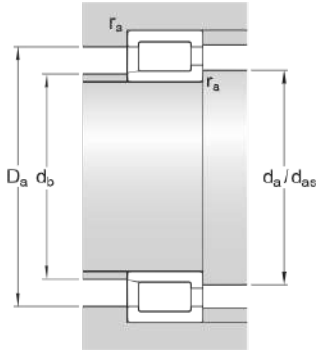
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	65 mm	Bore diameter
D	140 mm	Outside diameter
B	48 mm	Width
d_1	≈ 89.9 mm	Shoulder diameter inner ring
D_1	≈ 116 mm	Shoulder diameter outer ring
F	80.7 mm	Raceway diameter inner ring
s	max. 3 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2.1 mm	Chamfer dimension



Abutment dimensions

d_a	min. 77 mm	Abutment diameter shaft
d_{as}	85.3 mm	Abutment diameter shaft
d_b	max. 78 mm	Abutment diameter shaft
D_a	max. 128 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	303 kN

Basic static load rating	C_0	360 kN
Fatigue load limit	P_u	46.5 kN
Reference speed		1 900 r/min
Limiting speed		2 400 r/min
Calculation factor	k_r	0.35
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	3.56 kg

NJG 2320 VH

Single row full complement cylindrical roller bearing, NJG design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the outer ring and one on the inner ring, NJG design bearings can accommodate axial displacement in one direction. A self-retaining roller complement enables the bearing components to be separated, which facilitates mounting and enables the bearing components to be interchanged.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	215 mm
Width	73 mm

Performance

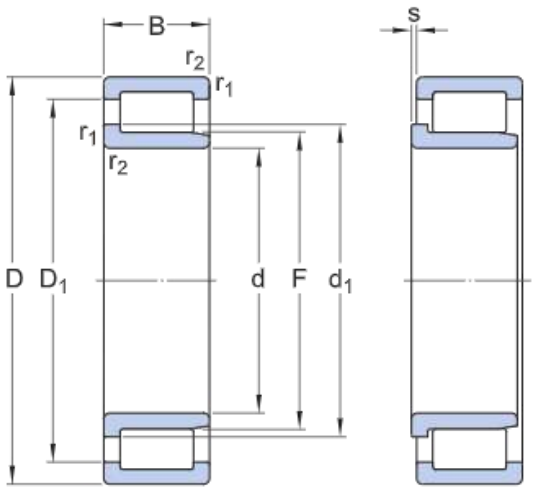
Basic dynamic load rating	704 kN
Basic static load rating	900 kN
Limiting speed	1 500 r/min
Reference speed	1 200 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1

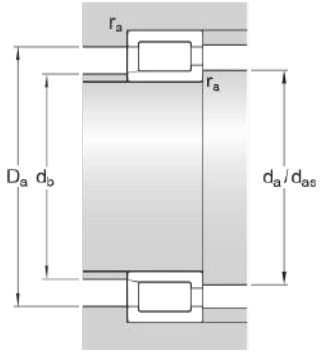
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	100 mm	Bore diameter
D	215 mm	Outside diameter
B	73 mm	Width
d_1	≈ 137 mm	Shoulder diameter inner ring
D_1	≈ 175 mm	Shoulder diameter outer ring
F	122.8 mm	Raceway diameter inner ring
s	max. 4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 114 mm	Abutment diameter shaft
d_{as}	128 mm	Abutment diameter shaft
d_b	max. 119 mm	Abutment diameter shaft
D_a	max. 201 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	704 kN

Basic static load rating	C_0	900 kN
Fatigue load limit	P_u	106 kN
Reference speed		1 200 r/min
Limiting speed		1 500 r/min
Calculation factor	k_r	0.35
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	13 kg

NJG 2340 VH

Single row full complement cylindrical roller bearing, NJG design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the outer ring and one on the inner ring, NJG design bearings can accommodate axial displacement in one direction. A self-retaining roller complement enables the bearing components to be separated, which facilitates mounting and enables the bearing components to be interchanged.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	200 mm
Outside diameter	420 mm
Width	138 mm

Performance

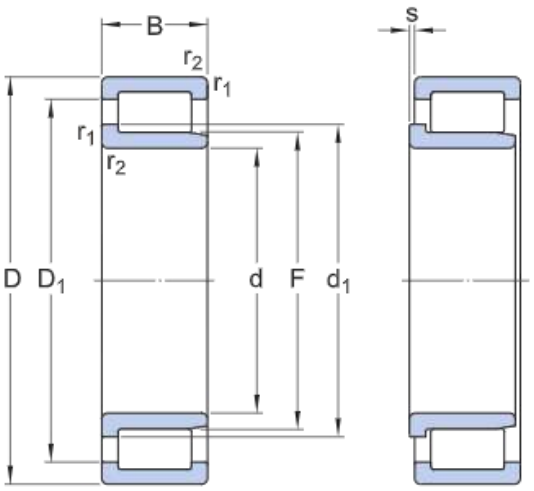
Basic dynamic load rating	2 290 kN
Basic static load rating	3 200 kN
Limiting speed	750 r/min
Reference speed	600 r/min

Properties

Axial displacement capability	In one direction
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Without
Coating	Without
Design	Separable
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	1
Number of flanges, outer ring	2
Number of rows	1

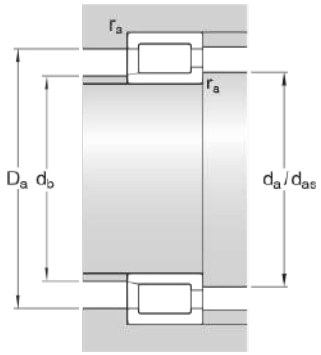
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

Technical Specification



Dimensions

d	200 mm	Bore diameter
D	420 mm	Outside diameter
B	138 mm	Width
d_1	≈ 266 mm	Shoulder diameter inner ring
D_1	≈ 342 mm	Shoulder diameter outer ring
F	238.65 mm	Raceway diameter inner ring
s	max. 9 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 5 mm	Chamfer dimension



Abutment dimensions

d_a	min. 221 mm	Abutment diameter shaft
d_{as}	252 mm	Abutment diameter shaft
d_b	max. 232 mm	Abutment diameter shaft
D_a	max. 398 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 290 kN
Basic static load rating	C_0	3 200 kN

Fatigue load limit	P_u	290 kN
Reference speed		600 r/min
Limiting speed		750 r/min
Calculation factor	k_r	0.35
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing	92 kg

NU 309 ECJ

Single row cylindrical roller bearing, NU design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width	25 mm

Performance

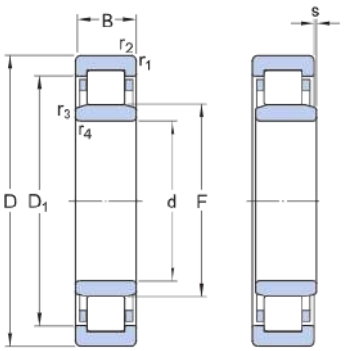
Basic dynamic load rating	112 kN
Basic static load rating	100 kN
Limiting speed	8 500 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Axial displacement capability	In both directions
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Loose flange	None
Lubricant	None
Number of flanges, inner ring	0
Number of flanges, outer ring	2
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

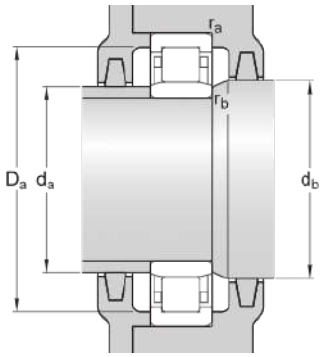
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
D_1	≈ 83.2 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
$r_{3,4}$	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 54 mm	Diameter of spacer sleeve
d_a	max. 56 mm	Diameter of spacer sleeve
d_b	min. 60 mm	Diameter of shaft abutment
D_a	max. 91.4 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN

Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass	0.89 kg

Associated products

Angle ring	HJ 309 EC

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Россия +7(495)268-04-70
Казахстан +7(727)345-47-04
Беларусь +(375)257-127-884
Узбекистан +998(71)205-18-59
Киргизия +996(312)96-26-47

эл.почта: swf@nt-rt.ru || сайт: https://skf.nt-rt.ru/