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302/28

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	28 mm
Outside diameter	58 mm
Width, total	17.25 mm
Width, inner ring	16 mm
Width, outer ring	14 mm
Contact angle	14.033 °

Performance

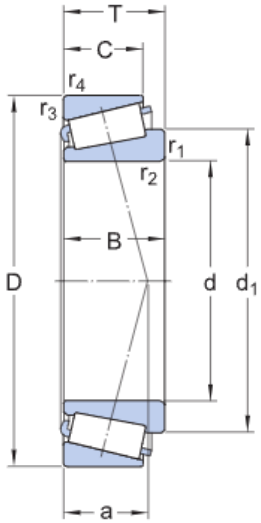
Basic dynamic load rating	46.6 kN
Basic static load rating	41.5 kN
Reference speed	10 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

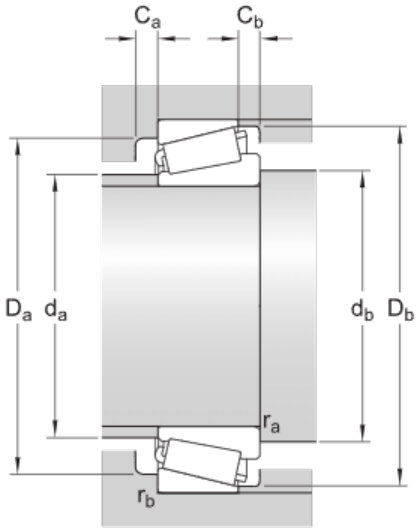
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DC



Dimensions

d	28 mm	Bore diameter
D	58 mm	Outside diameter
T	17.25 mm	Total width
d_1	≈ 42 mm	Shoulder diameter of inner ring
B	16 mm	Width of inner ring
C	14 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	13.155 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 35 mm	Diameter of shaft abutment
d_b	min. 35 mm	Diameter of shaft abutment
D_a	min. 50 mm	Diameter of housing abutment
D_a	max. 52 mm	Diameter of housing abutment
D_b	min. 54 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	46.6 kN
Basic static load rating	C_0	41.5 kN
Fatigue load limit	P_u	4.4 kN
Reference speed		10 000 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.2 kg

320/22 X

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	22 mm
Outside diameter	44 mm
Width, total	15 mm
Width, inner ring	15 mm
Width, outer ring	11.5 mm
Contact angle	14.833 °

Performance

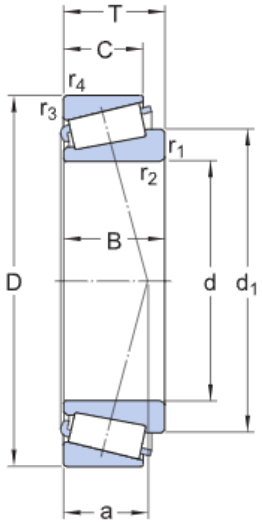
Basic dynamic load rating	30.9 kN
Basic static load rating	29 kN
Reference speed	13 000 r/min
Limiting speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

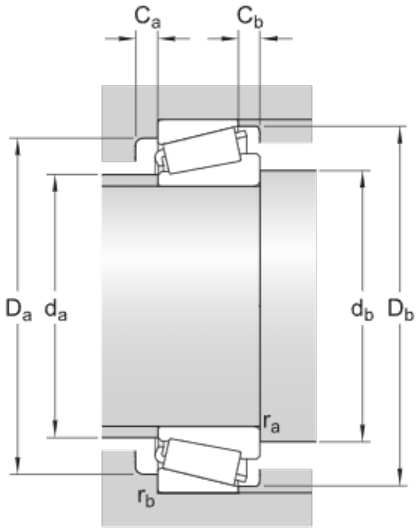
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3CC



Dimensions

d	22 mm	Bore diameter
D	44 mm	Outside diameter
T	15 mm	Total width
d_1	≈ 34.3 mm	Shoulder diameter of inner ring
B	15 mm	Width of inner ring
C	11.5 mm	Width of outer ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of outer ring
a	10.68 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 27 mm	Diameter of shaft abutment
d_b	min. 27.5 mm	Diameter of shaft abutment
D_a	min. 38 mm	Diameter of housing abutment
D_a	max. 39 mm	Diameter of housing abutment
D_b	min. 41 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 0.6 mm	Radius of shaft fillet

r_b	max. 0.6 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	30.9 kN
Basic static load rating	C_0	29 kN
Fatigue load limit	P_u	2.85 kN
Reference speed		13 000 r/min
Limiting speed		15 000 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.1 kg

320/32 X

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	32 mm
Outside diameter	58 mm
Width, total	17 mm
Width, inner ring	17 mm
Width, outer ring	13 mm
Contact angle	16.833 °

Performance

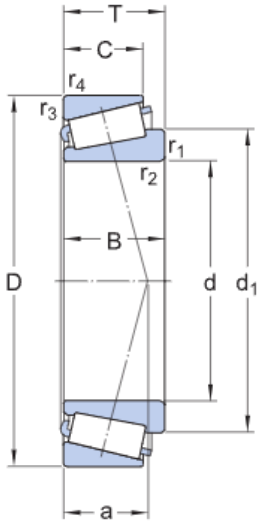
Basic dynamic load rating	45.1 kN
Basic static load rating	46.5 kN
Reference speed	9 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

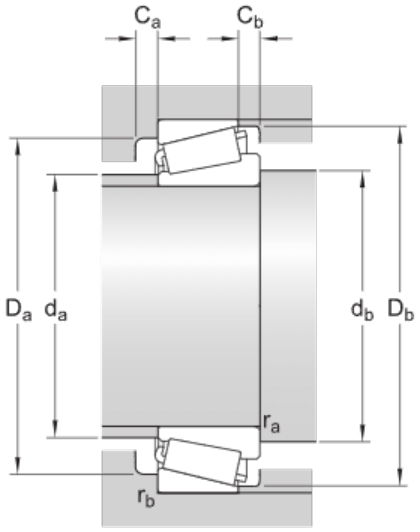
Technical Specification

SKF performance class	SKF Explorer
Dimension series	4CC



Dimensions

d	32 mm	Bore diameter
D	58 mm	Outside diameter
T	17 mm	Total width
d_1	≈ 46.2 mm	Shoulder diameter of inner ring
B	17 mm	Width of inner ring
C	13 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	13.85 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 38 mm	Diameter of shaft abutment
d_b	min. 39 mm	Diameter of shaft abutment
D_a	min. 50 mm	Diameter of housing abutment
D_a	max. 52 mm	Diameter of housing abutment
D_b	min. 55 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	45.1 kN
Basic static load rating	C_0	46.5 kN
Fatigue load limit	P_u	4.8 kN
Reference speed		9 000 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.46
Calculation factor	Y	1.3
Calculation factor	Y_0	0.7

Mass

Mass	0.19 kg

322/28 B

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	28 mm
Outside diameter	58 mm
Width, total	20.25 mm
Width, inner ring	19 mm
Width, outer ring	16 mm
Contact angle	20.567 °

Performance

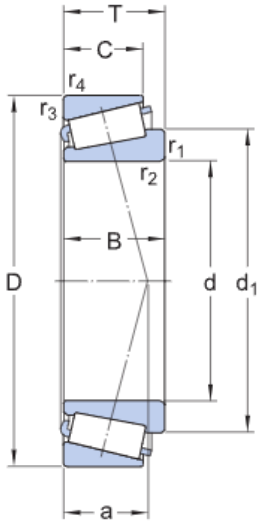
Basic dynamic load rating	51.9 kN
Basic static load rating	50 kN
Reference speed	9 500 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

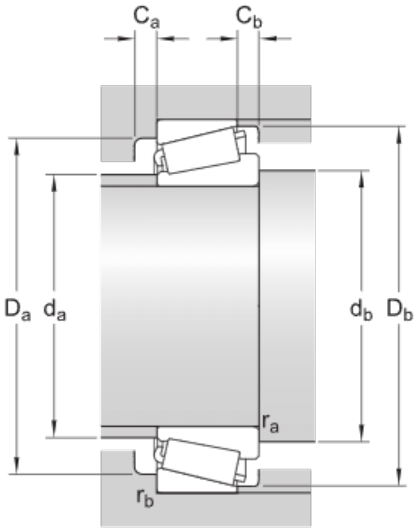
Technical Specification

SKF performance class	SKF Explorer
Dimension series	5CD



Dimensions

d	28 mm	Bore diameter
D	58 mm	Outside diameter
T	20.25 mm	Total width
d_1	≈ 43.9 mm	Shoulder diameter of inner ring
B	19 mm	Width of inner ring
C	16 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	16.689 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 33 mm	Diameter of shaft abutment
d_b	min. 35 mm	Diameter of shaft abutment
D_a	min. 46 mm	Diameter of housing abutment
D_a	max. 52 mm	Diameter of housing abutment
D_b	min. 55 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	51.9 kN
Basic static load rating	C_0	50 kN
Fatigue load limit	P_u	5.5 kN
Reference speed		9 500 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.57
Calculation factor	Y	1.05
Calculation factor	Y_0	0.6

Mass

Mass	0.25 kg

358 X/354 X

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width, total	21.692 mm
Width, inner ring	21.692 mm
Width, outer ring	17.462 mm
Contact angle	11.542 °

Performance

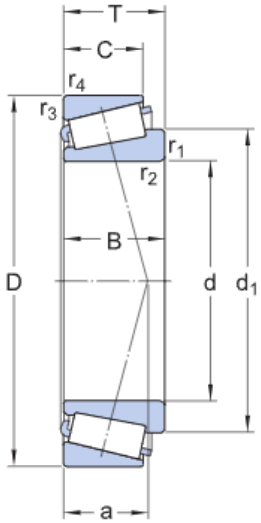
Basic dynamic load rating	87.3 kN
Basic static load rating	81.5 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

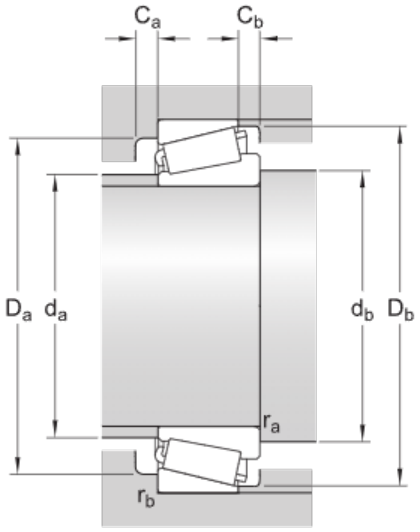
Technical Specification

SKF performance class	SKF Explorer
Dimension series	355



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
T	20.638 mm	Total width
d_1	≈ 62.4 mm	Shoulder diameter of inner ring
B	21.692 mm	Width of inner ring
C	17.462 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	15.942 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 55 mm	Diameter of shaft abutment
d_b	min. 54.5 mm	Diameter of shaft abutment
D_a	min. 76 mm	Diameter of housing abutment
D_a	max. 77 mm	Diameter of housing abutment
D_b	min. 80 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	87.3 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	9.3 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	Y_0	1.1

Mass

Mass	0.5 kg

359 S/354 X

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	46.038 mm
Outside diameter	85 mm
Width, total	21.692 mm
Width, inner ring	21.692 mm
Width, outer ring	17.462 mm
Contact angle	11.542 °

Performance

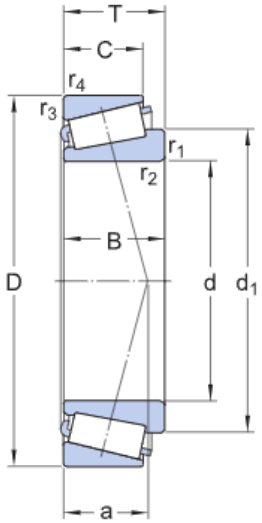
Basic dynamic load rating	87.3 kN
Basic static load rating	81.5 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

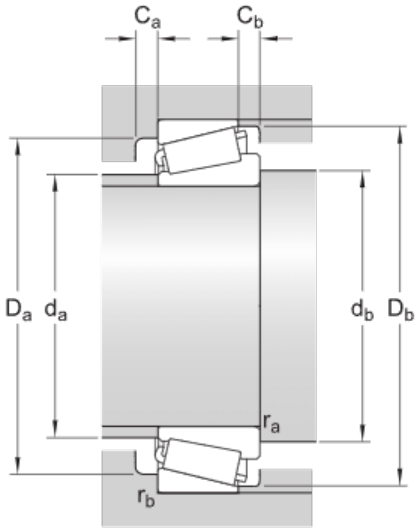
Technical Specification

SKF performance class	SKF Explorer
Dimension series	355



Dimensions

d	46.038 mm	Bore diameter
D	85 mm	Outside diameter
T	20.638 mm	Total width
d_1	≈ 62.4 mm	Shoulder diameter of inner ring
B	21.692 mm	Width of inner ring
C	17.462 mm	Width of outer ring
$r_{1,2}$	min. 2.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	15.942 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 55 mm	Diameter of shaft abutment
d_b	min. 56.5 mm	Diameter of shaft abutment
D_a	min. 76 mm	Diameter of housing abutment
D_a	max. 77 mm	Diameter of housing abutment
D_b	min. 80 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 2.3 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	87.3 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	9.3 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	Y_0	1.1

Mass

Mass	0.49 kg

369 S/362 A

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	47.625 mm
Outside diameter	88.9 mm
Width, total	22.225 mm
Width, inner ring	22.225 mm
Width, outer ring	16.513 mm
Contact angle	12.033 °

Performance

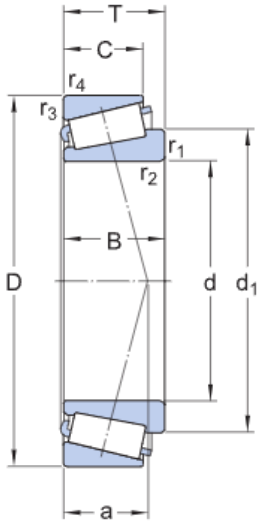
Basic dynamic load rating	94 kN
Basic static load rating	91.5 kN
Reference speed	6 300 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

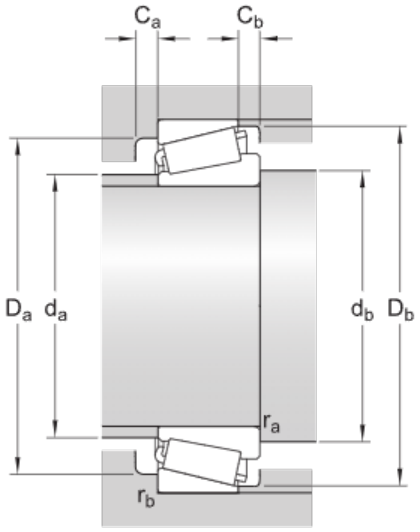
Technical Specification

SKF performance class	SKF Explorer
Dimension series	365



Dimensions

d	47.625 mm	Bore diameter
D	88.9 mm	Outside diameter
T	20.638 mm	Total width
d_1	≈ 66.2 mm	Shoulder diameter of inner ring
B	22.225 mm	Width of inner ring
C	16.513 mm	Width of outer ring
$r_{1,2}$	min. 2.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	16.326 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 58 mm	Diameter of shaft abutment
d_b	min. 58 mm	Diameter of shaft abutment
D_a	min. 80 mm	Diameter of housing abutment
D_a	max. 81.5 mm	Diameter of housing abutment
D_b	min. 83 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 2.3 mm	Radius of shaft fillet

r_b max. 1.3 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	94 kN
Basic static load rating	C_0	91.5 kN
Fatigue load limit	P_u	10.4 kN
Reference speed		6 300 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	Y_0	1.1

Mass

Mass	0.55 kg

418/414

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	38.1 mm
Outside diameter	88.5 mm
Width, total	29.083 mm
Width, inner ring	29.083 mm
Width, outer ring	22.225 mm
Contact angle	9.967 °

Performance

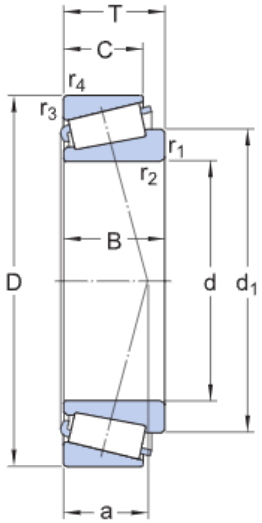
Basic dynamic load rating	123 kN
Basic static load rating	114 kN
Reference speed	6 700 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

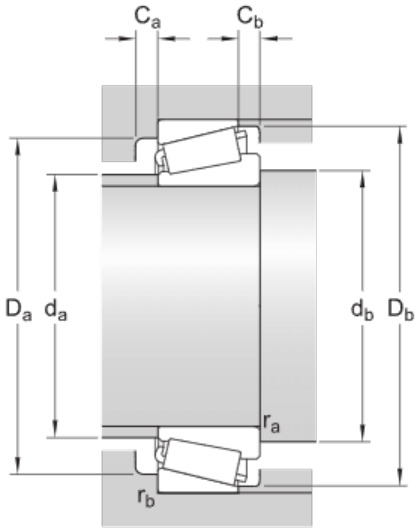
Technical Specification

SKF performance class	SKF Explorer
Dimension series	415



Dimensions

d	38.1 mm	Bore diameter
D	88.5 mm	Outside diameter
T	26.988 mm	Total width
d_1	≈ 58.85 mm	Shoulder diameter of inner ring
B	29.083 mm	Width of inner ring
C	22.225 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	16.971 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 49 mm	Diameter of shaft abutment
d_b	min. 50.5 mm	Diameter of shaft abutment
D_a	min. 73 mm	Diameter of housing abutment
D_a	max. 81 mm	Diameter of housing abutment
D_b	min. 78 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	123 kN
Basic static load rating	C_0	114 kN
Fatigue load limit	P_u	13.2 kN
Reference speed		6 700 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.26
Calculation factor	Y	2.3
Calculation factor	Y_0	1.3

Mass

Mass	0.83 kg

535/532 A

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	44.45 mm
Outside diameter	111.125 mm
Width, total	38.1 mm
Width, inner ring	36.957 mm
Width, outer ring	30.162 mm
Contact angle	11.183 °

Performance

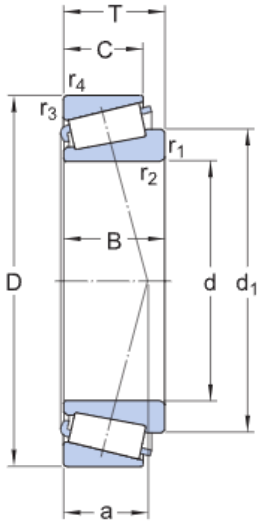
Basic dynamic load rating	183 kN
Basic static load rating	190 kN
Reference speed	5 300 r/min
Limiting speed	6 300 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

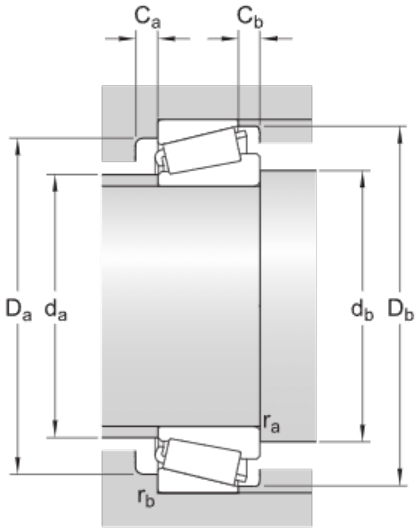
Technical Specification

SKF performance class	SKF Explorer
Dimension series	535



Dimensions

d	44.45 mm	Bore diameter
D	111.125 mm	Outside diameter
T	38.1 mm	Total width
d_1	≈ 76.5 mm	Shoulder diameter of inner ring
B	36.957 mm	Width of inner ring
C	30.162 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	25.387 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 64 mm	Diameter of shaft abutment
d_b	min. 57.5 mm	Diameter of shaft abutment
D_a	min. 89 mm	Diameter of housing abutment
D_a	max. 99.5 mm	Diameter of housing abutment
D_b	min. 97 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 7.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	183 kN
Basic static load rating	C_0	190 kN
Fatigue load limit	P_u	21.6 kN
Reference speed		5 300 r/min
Limiting speed		6 300 r/min
Limiting value	e	0.3
Calculation factor	Y	2
Calculation factor	Y_0	1.1

Mass

Mass	1.85 kg

1988/1922

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	28.575 mm
Outside diameter	57.15 mm
Width, total	19.845 mm
Width, inner ring	19.355 mm
Width, outer ring	15.875 mm
Contact angle	12.408 °

Performance

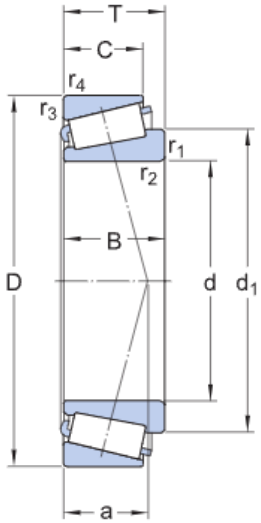
Basic dynamic load rating	58.2 kN
Basic static load rating	55 kN
Reference speed	10 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

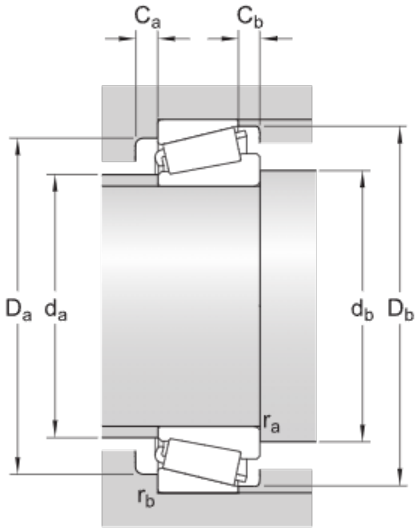
Technical Specification

SKF performance class	SKF Explorer
Dimension series	1900



Dimensions

d	28.575 mm	Bore diameter
D	57.15 mm	Outside diameter
T	19.845 mm	Total width
d_1	≈ 42 mm	Shoulder diameter of inner ring
B	19.355 mm	Width of inner ring
C	15.875 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	13.702 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 35 mm	Diameter of shaft abutment
d_b	min. 40.5 mm	Diameter of shaft abutment
D_a	min. 49 mm	Diameter of housing abutment
D_a	max. 50 mm	Diameter of housing abutment
D_b	min. 54 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	58.2 kN
Basic static load rating	C_0	55 kN
Fatigue load limit	P_u	6 kN
Reference speed		10 000 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.22 kg

3585/3525

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	41.275 mm
Outside diameter	87.312 mm
Width, total	30.886 mm
Width, inner ring	30.886 mm
Width, outer ring	23.812 mm
Contact angle	11.542 °

Performance

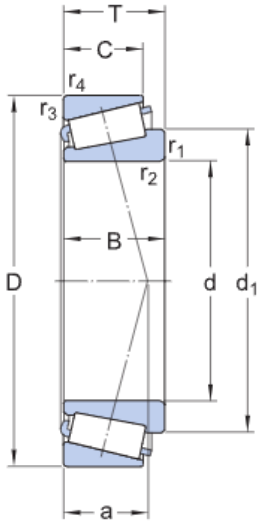
Basic dynamic load rating	126 kN
Basic static load rating	132 kN
Reference speed	6 300 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

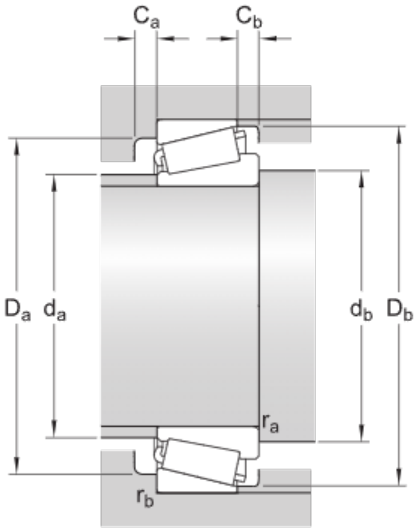
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3500



Dimensions

d	41.275 mm	Bore diameter
D	87.312 mm	Outside diameter
T	30.162 mm	Total width
d_1	≈ 63.1 mm	Shoulder diameter of inner ring
B	30.886 mm	Width of inner ring
C	23.812 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	19.762 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 50 mm	Diameter of shaft abutment
D_a	min. 73 mm	Diameter of housing abutment
D_a	max. 76 mm	Diameter of housing abutment
D_b	min. 80 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	126 kN
Basic static load rating	C_0	132 kN
Fatigue load limit	P_u	15 kN
Reference speed		6 300 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	Y_0	1.1

Mass

Mass	0.85 kg

3782/3720

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	44.45 mm
Outside diameter	93.264 mm
Width, total	30.302 mm
Width, inner ring	30.302 mm
Width, outer ring	23.812 mm
Contact angle	12.717 °

Performance

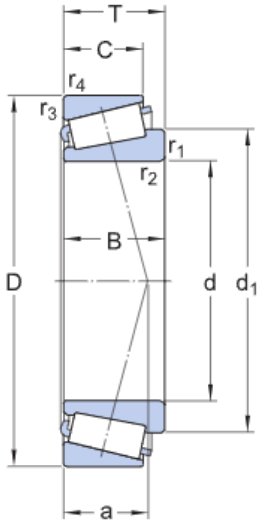
Basic dynamic load rating	134 kN
Basic static load rating	146 kN
Reference speed	5 600 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

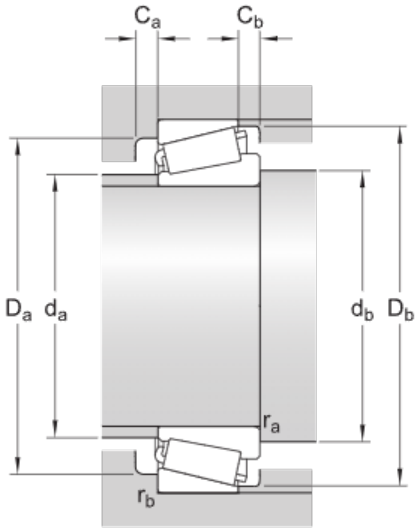
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3700



Dimensions

d	44.45 mm	Bore diameter
D	93.264 mm	Outside diameter
T	30.163 mm	Total width
d_1	≈ 71.2 mm	Shoulder diameter of inner ring
B	30.302 mm	Width of inner ring
C	23.812 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	21.71 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 60 mm	Diameter of shaft abutment
d_b	min. 57.5 mm	Diameter of shaft abutment
D_a	min. 80 mm	Diameter of housing abutment
D_a	max. 81.5 mm	Diameter of housing abutment
D_b	min. 87 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	134 kN
Basic static load rating	C_0	146 kN
Fatigue load limit	P_u	17 kN
Reference speed		5 600 r/min
Limiting speed		7 000 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.98 kg

11590/11520

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	15.875 mm
Outside diameter	42.862 mm
Width, total	14.288 mm
Width, inner ring	14.288 mm
Width, outer ring	9.525 mm
Contact angle	25.083 °

Performance

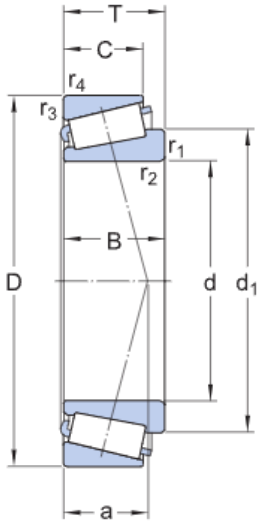
Basic dynamic load rating	21.5 kN
Basic static load rating	17.6 kN
Reference speed	13 000 r/min
Limiting speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

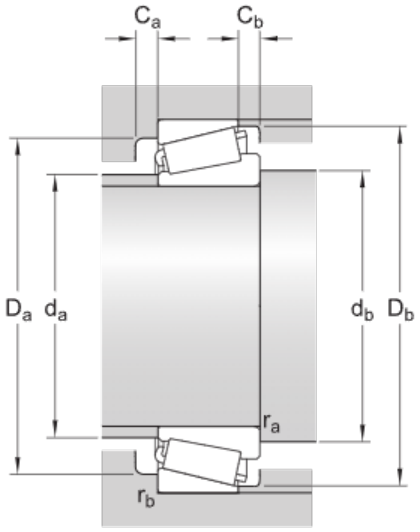
Technical Specification

SKF performance class	SKF Explorer
Dimension series	11500



Dimensions

d	15.875 mm	Bore diameter
D	42.862 mm	Outside diameter
T	14.288 mm	Total width
d_1	≈ 31.1 mm	Shoulder diameter of inner ring
B	14.288 mm	Width of inner ring
C	9.525 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	12.624 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 23 mm	Diameter of shaft abutment
d_b	min. 23.5 mm	Diameter of shaft abutment
D_a	min. 32 mm	Diameter of housing abutment
D_a	max. 36.5 mm	Diameter of housing abutment
D_b	min. 38 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	21.5 kN
Basic static load rating	C_0	17.6 kN
Fatigue load limit	P_u	1.8 kN
Reference speed		13 000 r/min
Limiting speed		17 000 r/min
Limiting value	e	0.72
Calculation factor	Y	0.84
Calculation factor	Y_0	0.45

Mass

Mass	0.1 kg

14131/14276

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	33.338 mm
Outside diameter	69.012 mm
Width, total	19.845 mm
Width, inner ring	19.583 mm
Width, outer ring	15.875 mm
Contact angle	14.283 °

Performance

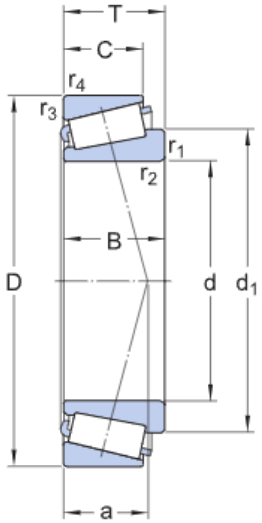
Basic dynamic load rating	65.8 kN
Basic static load rating	67 kN
Reference speed	8 000 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

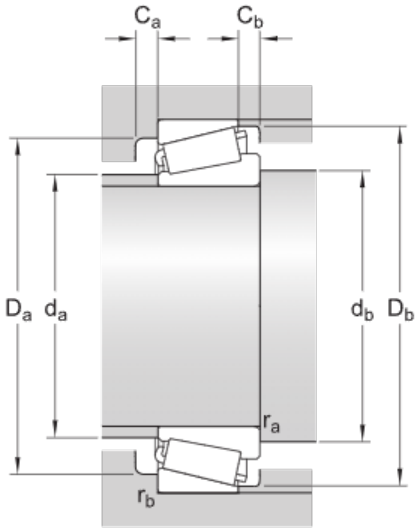
Technical Specification

SKF performance class	SKF Explorer
Dimension series	14000



Dimensions

d	33.338 mm	Bore diameter
D	69.012 mm	Outside diameter
T	19.845 mm	Total width
d_1	≈ 50.7 mm	Shoulder diameter of inner ring
B	19.583 mm	Width of inner ring
C	15.875 mm	Width of outer ring
$r_{1,2}$	min. 0.8 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	15.343 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 43 mm	Diameter of shaft abutment
d_b	min. 40 mm	Diameter of shaft abutment
D_a	min. 57 mm	Diameter of housing abutment
D_a	max. 62 mm	Diameter of housing abutment
D_b	min. 63 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 0.8 mm	Radius of shaft fillet

r_b	max. 1.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	65.8 kN
Basic static load rating	C_0	67 kN
Fatigue load limit	P_u	7.35 kN
Reference speed		8 000 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.35 kg

15123/15245

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	31.75 mm
Outside diameter	62 mm
Width, total	19.05 mm
Width, inner ring	19.05 mm
Width, outer ring	14.288 mm
Contact angle	13.15 °

Performance

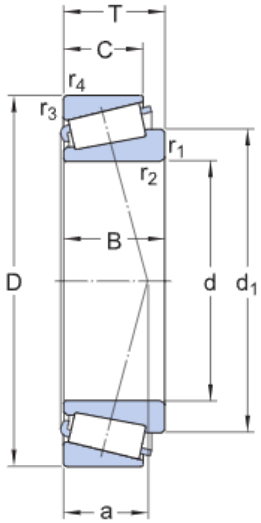
Basic dynamic load rating	59.5 kN
Basic static load rating	57 kN
Reference speed	9 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

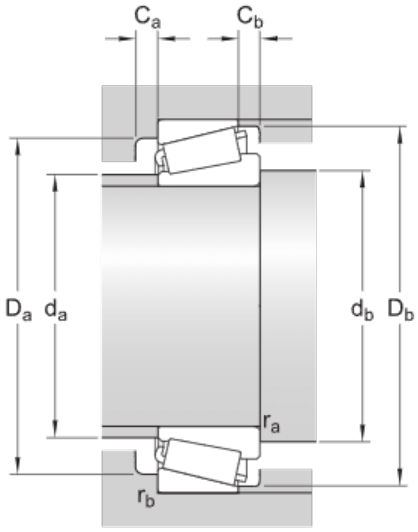
Technical Specification

SKF performance class	SKF Explorer
Dimension series	15000



Dimensions

d	31.75 mm	Bore diameter
D	62 mm	Outside diameter
T	18.161 mm	Total width
d_1	≈ 45.79 mm	Shoulder diameter of inner ring
B	19.05 mm	Width of inner ring
C	14.288 mm	Width of outer ring
$r_{1,2}$	min. 3.6 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	12.68 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 38 mm	Diameter of shaft abutment
d_b	min. 44 mm	Diameter of shaft abutment
D_a	min. 54 mm	Diameter of housing abutment
D_a	max. 55.5 mm	Diameter of housing abutment
D_b	min. 58 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.6 mm	Radius of shaft fillet

r_b	max. 1.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	59.5 kN
Basic static load rating	C_0	57 kN
Fatigue load limit	P_u	6.2 kN
Reference speed		9 000 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.24 kg

15578/15520

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	25.4 mm
Outside diameter	57.15 mm
Width, total	17.462 mm
Width, inner ring	17.462 mm
Width, outer ring	13.495 mm
Contact angle	13 °

Performance

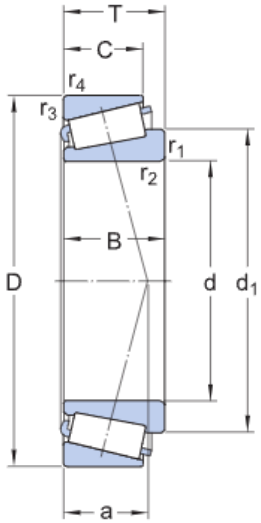
Basic dynamic load rating	49.1 kN
Basic static load rating	45.5 kN
Reference speed	10 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

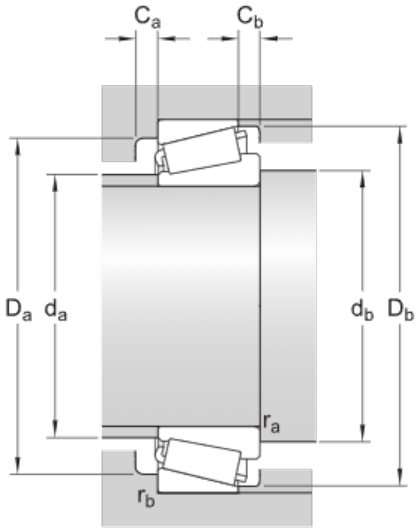
Technical Specification

SKF performance class	SKF Explorer
Dimension series	NSTD



Dimensions

d	25.4 mm	Bore diameter
D	57.15 mm	Outside diameter
T	17.462 mm	Total width
d_1	≈ 42.3 mm	Shoulder diameter of inner ring
B	17.462 mm	Width of inner ring
C	13.495 mm	Width of outer ring
$r_{1,2}$	min. 1.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	12.162 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 35 mm	Diameter of shaft abutment
d_b	min. 33 mm	Diameter of shaft abutment
D_a	min. 49 mm	Diameter of housing abutment
D_a	max. 50 mm	Diameter of housing abutment
D_b	min. 53 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.3 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	49.1 kN
Basic static load rating	C_0	45.5 kN
Fatigue load limit	P_u	4.9 kN
Reference speed		10 000 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.22 kg

18690/18620

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	46.038 mm
Outside diameter	79.375 mm
Width, total	17.462 mm
Width, inner ring	17.462 mm
Width, outer ring	13.495 mm
Contact angle	14 °

Performance

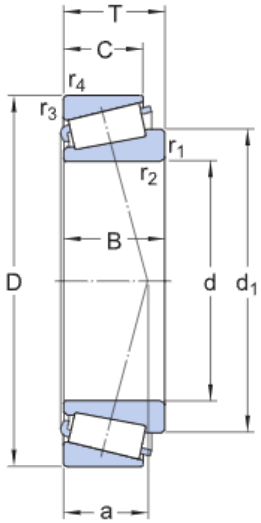
Basic dynamic load rating	61.1 kN
Basic static load rating	62 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

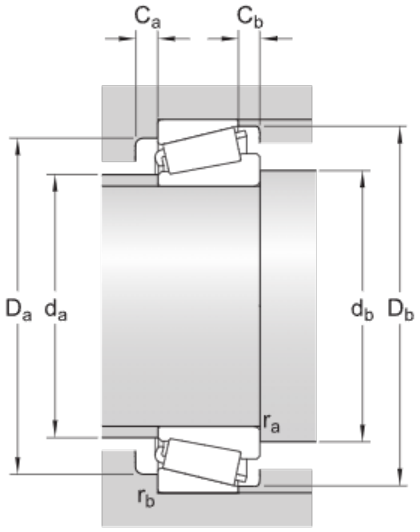
Technical Specification

SKF performance class	SKF Explorer
Dimension series	18600



Dimensions

d	46.038 mm	Bore diameter
D	79.375 mm	Outside diameter
T	17.462 mm	Total width
d_1	≈ 60.2 mm	Shoulder diameter of inner ring
B	17.462 mm	Width of inner ring
C	13.495 mm	Width of outer ring
$r_{1,2}$	min. 2.8 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	14.774 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 57 mm	Diameter of shaft abutment
D_a	min. 69 mm	Diameter of housing abutment
D_a	max. 71.5 mm	Diameter of housing abutment
D_b	min. 73 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 2.8 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	61.1 kN
Basic static load rating	C_0	62 kN
Fatigue load limit	P_u	6.8 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.33 kg

22205/20 E

Spherical roller bearing with relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	0.787 in
Outside diameter	2.047 in
Width	0.709 in

Performance

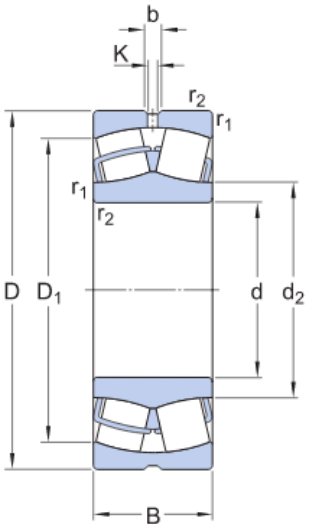
Basic dynamic load rating	11 218 lbf
Basic static load rating	9 892 lbf
Limiting speed	17 000 r/min
Reference speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Bore type	Cylindrical
Cage	Sheet metal
Locating feature, bearing outer ring	Without
Lubricant	None
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

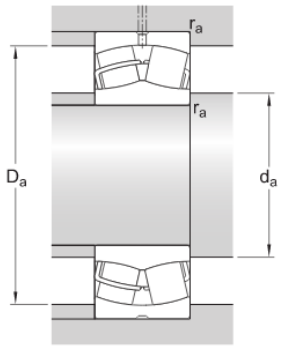
Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical



Dimensions

d	0.787 in	Bore diameter
D	2.047 in	Outside diameter
B	0.709 in	Width
d_2	≈ 1.232 in	Shoulder diameter of inner ring
D_1	≈ 1.74 in	Shoulder/recess diameter of outer ring
b	0.146 in	Width of lubrication groove
K	0.079 in	Diameter of lubrication hole
$r_{1,2}$	min. 0.039 in	Chamfer dimension



Abutment dimensions

d_a	min. 1.008 in	Diameter of shaft abutment
D_a	max. 1.827 in	Diameter of housing abutment
r_a	max. 0.039 in	Radius of fillet

Calculation data

Basic dynamic load rating	C	11 218 lbf
Basic static load rating	C_0	9 892 lbf

Fatigue load limit	P_u	1 068 lbf
Reference speed		13 000 r/min
Limiting speed		17 000 r/min
Limiting value	e	0.35
Calculation factor	Y_1	1.9
Calculation factor	Y_2	2.9
Calculation factor	Y_0	1.8

Mass

Mass	0.617 lb

24780/24720

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	41.275 mm
Outside diameter	76.2 mm
Width, total	23.02 mm
Width, inner ring	23.02 mm
Width, outer ring	17.462 mm
Contact angle	14.667 °

Performance

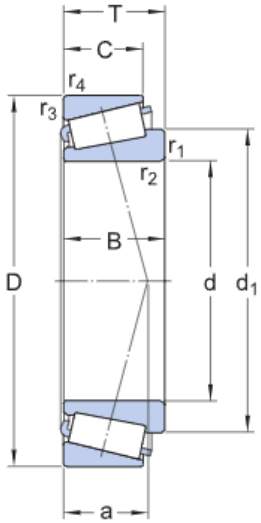
Basic dynamic load rating	84.2 kN
Basic static load rating	86.5 kN
Reference speed	7 000 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

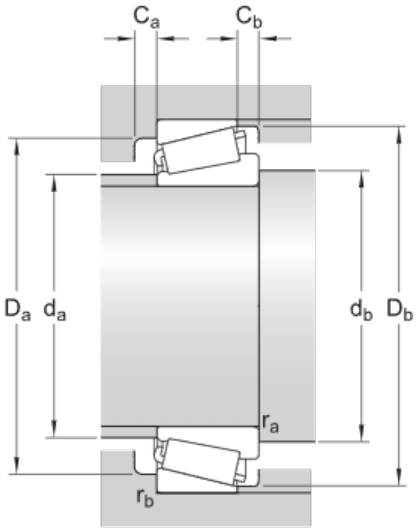
Technical Specification

SKF performance class	SKF Explorer
Dimension series	24700



Dimensions

d	41.275 mm	Bore diameter
D	76.2 mm	Outside diameter
T	22.225 mm	Total width
d_1	≈ 57.73 mm	Shoulder diameter of inner ring
B	23.02 mm	Width of inner ring
C	17.462 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.8 mm	Chamfer dimension of outer ring
a	17.055 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 49 mm	Diameter of shaft abutment
d_b	min. 54 mm	Diameter of shaft abutment
D_a	min. 65 mm	Diameter of housing abutment
D_a	max. 70 mm	Diameter of housing abutment
D_b	min. 71 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 0.8 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	84.2 kN
Basic static load rating	C_0	86.5 kN
Fatigue load limit	P_u	9.65 kN
Reference speed		7 000 r/min
Limiting speed		9 000 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.44 kg

25580/25520

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	44.45 mm
Outside diameter	82.931 mm
Width, total	25.4 mm
Width, inner ring	25.4 mm
Width, outer ring	19.05 mm
Contact angle	12.583 °

Performance

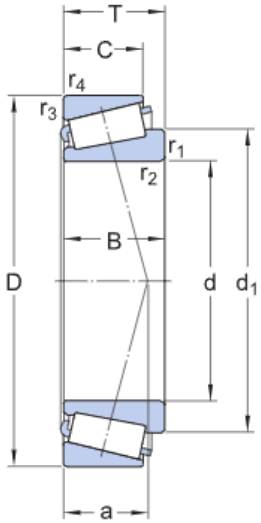
Basic dynamic load rating	99.1 kN
Basic static load rating	106 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

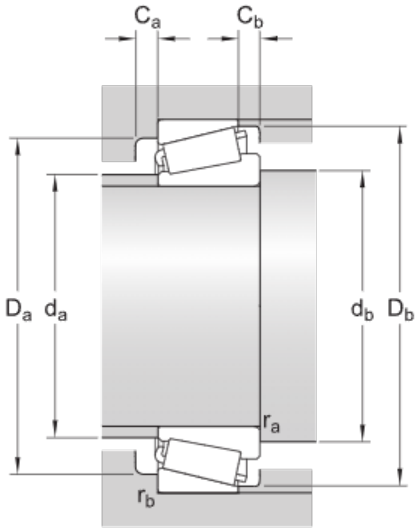
Technical Specification

SKF performance class	SKF Explorer
Dimension series	25500



Dimensions

d	44.45 mm	Bore diameter
D	82.931 mm	Outside diameter
T	23.812 mm	Total width
d_1	≈ 62.2 mm	Shoulder diameter of inner ring
B	25.4 mm	Width of inner ring
C	19.05 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.8 mm	Chamfer dimension of outer ring
a	16.993 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 57 mm	Diameter of shaft abutment
D_a	min. 71 mm	Diameter of housing abutment
D_a	max. 76.5 mm	Diameter of housing abutment
D_b	min. 76 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 0.8 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	99.1 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.57 kg

25580/25522

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	44.45 mm
Outside diameter	83.058 mm
Width, total	25.4 mm
Width, inner ring	25.4 mm
Width, outer ring	19.114 mm
Contact angle	12.583 °

Performance

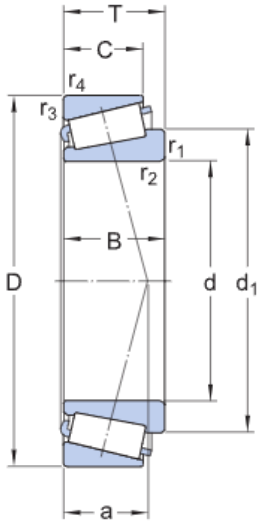
Basic dynamic load rating	99.1 kN
Basic static load rating	106 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

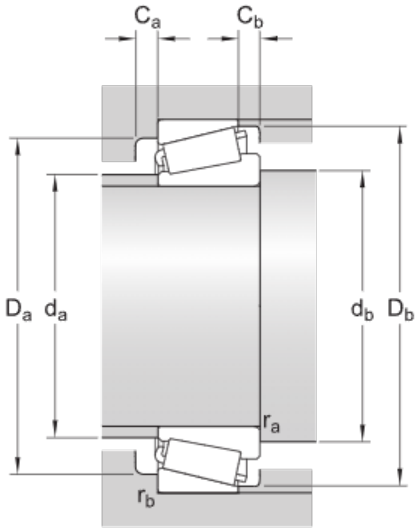
Technical Specification

SKF performance class	SKF Explorer
Dimension series	25500



Dimensions

d	44.45 mm	Bore diameter
D	83.058 mm	Outside diameter
T	23.876 mm	Total width
d_1	≈ 62.2 mm	Shoulder diameter of inner ring
B	25.4 mm	Width of inner ring
C	19.114 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension of outer ring
a	17.057 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 57 mm	Diameter of shaft abutment
D_a	min. 71 mm	Diameter of housing abutment
D_a	max. 74.5 mm	Diameter of housing abutment
D_b	min. 76 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b max. 2 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	99.1 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.57 kg

25580/25523

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	44.45 mm
Outside diameter	82.931 mm
Width, total	26.988 mm
Width, inner ring	25.4 mm
Width, outer ring	22.225 mm
Contact angle	12.583 °

Performance

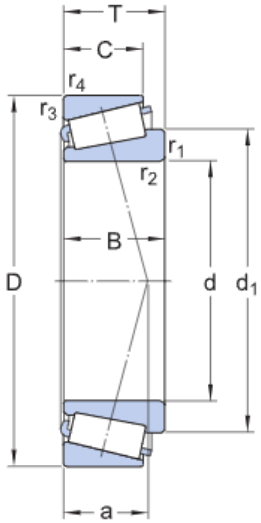
Basic dynamic load rating	99.1 kN
Basic static load rating	106 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

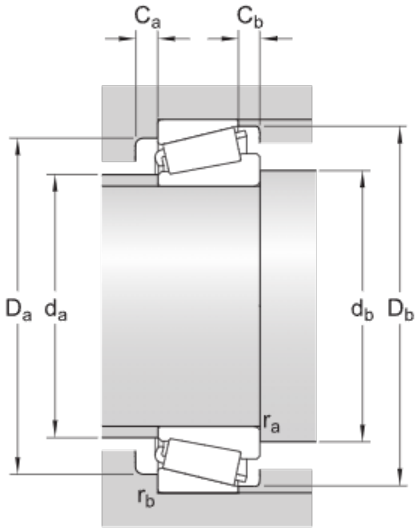
Technical Specification

SKF performance class	SKF Explorer
Dimension series	25500



Dimensions

d	44.45 mm	Bore diameter
D	82.931 mm	Outside diameter
T	26.988 mm	Total width
d_1	≈ 62.2 mm	Shoulder diameter of inner ring
B	25.4 mm	Width of inner ring
C	22.225 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2.3 mm	Chamfer dimension of outer ring
a	20.169 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 57 mm	Diameter of shaft abutment
D_a	min. 70 mm	Diameter of housing abutment
D_a	max. 73.5 mm	Diameter of housing abutment
D_b	min. 76 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 2.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	99.1 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.61 kg

25590/25520

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45.618 mm
Outside diameter	82.931 mm
Width, total	25.4 mm
Width, inner ring	25.4 mm
Width, outer ring	19.05 mm
Contact angle	12.583 °

Performance

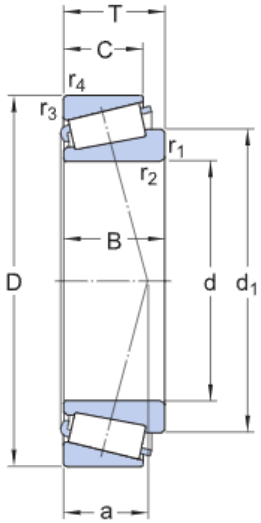
Basic dynamic load rating	99.1 kN
Basic static load rating	106 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

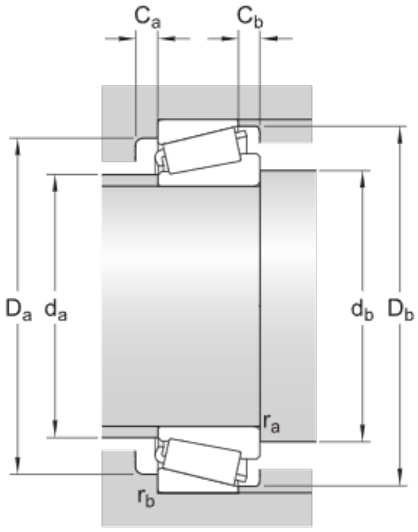
Technical Specification

SKF performance class	SKF Explorer
Dimension series	25500



Dimensions

d	45.618 mm	Bore diameter
D	82.931 mm	Outside diameter
T	23.812 mm	Total width
d_1	≈ 62.2 mm	Shoulder diameter of inner ring
B	25.4 mm	Width of inner ring
C	19.05 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.8 mm	Chamfer dimension of outer ring
a	16.993 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 58 mm	Diameter of shaft abutment
D_a	min. 71 mm	Diameter of housing abutment
D_a	max. 76.5 mm	Diameter of housing abutment
D_b	min. 76 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 0.8 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	99.1 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.55 kg

25590/25523

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45.618 mm
Outside diameter	82.931 mm
Width, total	26.988 mm
Width, inner ring	25.4 mm
Width, outer ring	22.225 mm
Contact angle	12.583 °

Performance

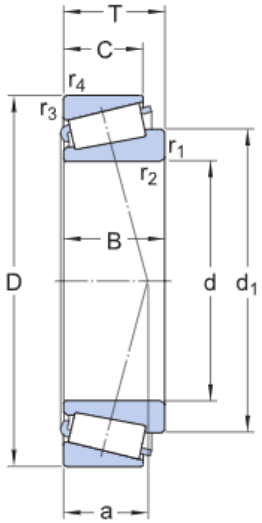
Basic dynamic load rating	99.1 kN
Basic static load rating	106 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

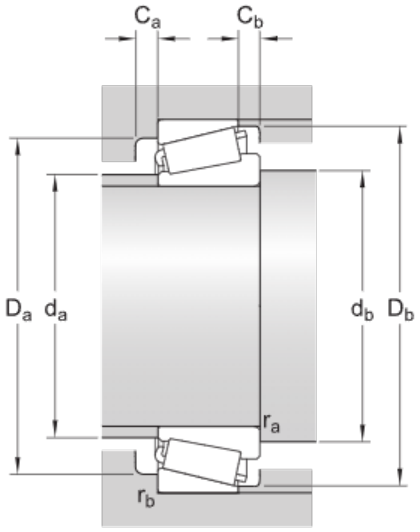
Technical Specification

SKF performance class	SKF Explorer
Dimension series	25500



Dimensions

d	45.618 mm	Bore diameter
D	82.931 mm	Outside diameter
T	26.988 mm	Total width
d_1	≈ 62.2 mm	Shoulder diameter of inner ring
B	25.4 mm	Width of inner ring
C	22.225 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2.3 mm	Chamfer dimension of outer ring
a	20.169 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 58 mm	Diameter of shaft abutment
D_a	min. 70 mm	Diameter of housing abutment
D_a	max. 73.5 mm	Diameter of housing abutment
D_b	min. 76 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b max. 2.3 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	99.1 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.59 kg

30202

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	15 mm
Outside diameter	35 mm
Width, total	11.75 mm
Width, inner ring	11 mm
Width, outer ring	9.25 mm
Contact angle	13 °

Performance

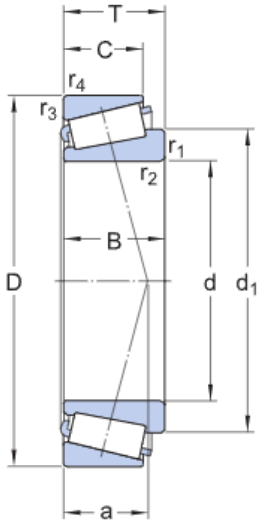
Basic dynamic load rating	18.5 kN
Basic static load rating	14.6 kN
Reference speed	17 000 r/min
Limiting speed	20 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

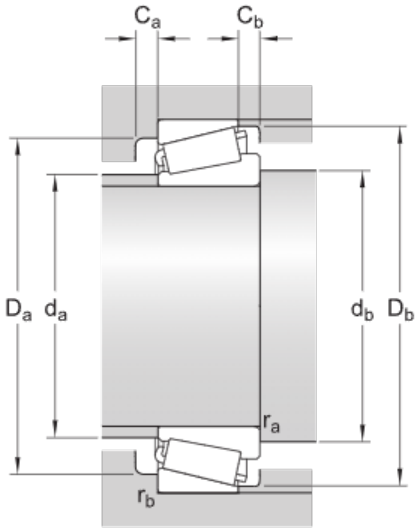
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2CC



Dimensions

d	15 mm	Bore diameter
D	35 mm	Outside diameter
T	11.75 mm	Total width
d_1	≈ 25.6 mm	Shoulder diameter of inner ring
B	11 mm	Width of inner ring
C	9.25 mm	Width of outer ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of outer ring
a	8.35 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 20 mm	Diameter of shaft abutment
d_b	min. 20.5 mm	Diameter of shaft abutment
D_a	min. 30 mm	Diameter of housing abutment
D_a	max. 30.5 mm	Diameter of housing abutment
D_b	min. 32 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 2.5 mm	Minimum width of space required in housing on small side face
r_a	max. 0.6 mm	Radius of shaft fillet

r_b	max. 0.6 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	18.5 kN
Basic static load rating	C_0	14.6 kN
Fatigue load limit	P_u	1.43 kN
Reference speed		17 000 r/min
Limiting speed		20 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.054 kg

30203

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	40 mm
Width, total	13.25 mm
Width, inner ring	12 mm
Width, outer ring	11 mm
Contact angle	12.953 °

Performance

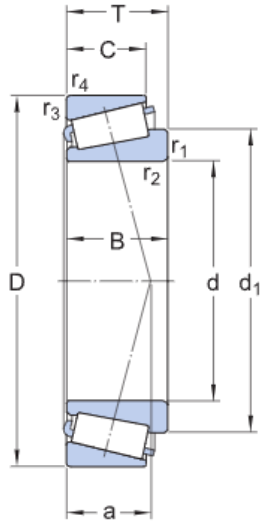
Basic dynamic load rating	23.4 kN
Basic static load rating	18.6 kN
Reference speed	15 000 r/min
Limiting speed	18 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

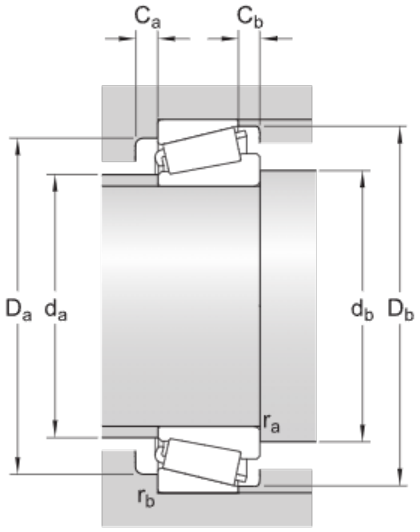
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2DB



Dimensions

d	17 mm	Bore diameter
D	40 mm	Outside diameter
T	13.25 mm	Total width
d_1	≈ 29 mm	Shoulder diameter of inner ring
B	12 mm	Width of inner ring
C	11 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	9.515 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 23 mm	Diameter of shaft abutment
d_b	min. 23.5 mm	Diameter of shaft abutment
D_a	min. 34 mm	Diameter of housing abutment
D_a	max. 34.5 mm	Diameter of housing abutment
D_b	min. 37 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 2 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	23.4 kN
Basic static load rating	C_0	18.6 kN
Fatigue load limit	P_u	1.83 kN
Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.079 kg

30204

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	47 mm
Width, total	15.25 mm
Width, inner ring	14 mm
Width, outer ring	12 mm
Contact angle	12.953 °

Performance

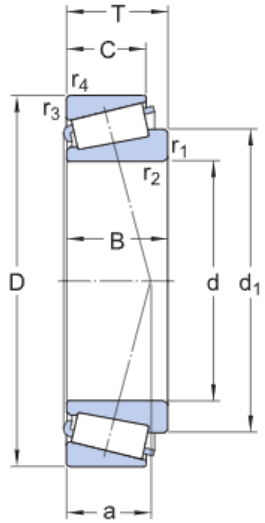
Basic dynamic load rating	34.1 kN
Basic static load rating	28 kN
Reference speed	12 000 r/min
Limiting speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

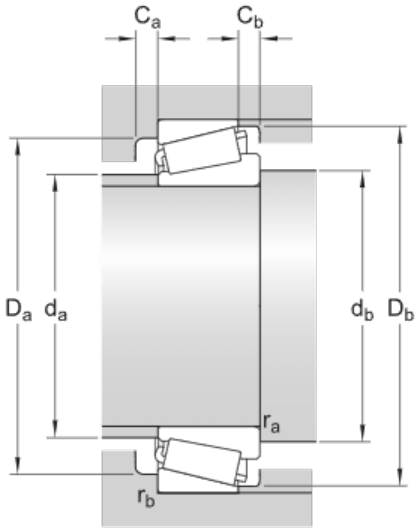
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2DB



Dimensions

d	20 mm	Bore diameter
D	47 mm	Outside diameter
T	15.25 mm	Total width
d_1	≈ 33.7 mm	Shoulder diameter of inner ring
B	14 mm	Width of inner ring
C	12 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	11.028 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 28 mm	Diameter of shaft abutment
d_b	min. 26.5 mm	Diameter of shaft abutment
D_a	min. 40 mm	Diameter of housing abutment
D_a	max. 41.5 mm	Diameter of housing abutment
D_b	min. 43 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	34.1 kN
Basic static load rating	C_0	28 kN
Fatigue load limit	P_u	3 kN
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.12 kg

30205

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width, total	16.25 mm
Width, inner ring	15 mm
Width, outer ring	13 mm
Contact angle	14.036 °

Performance

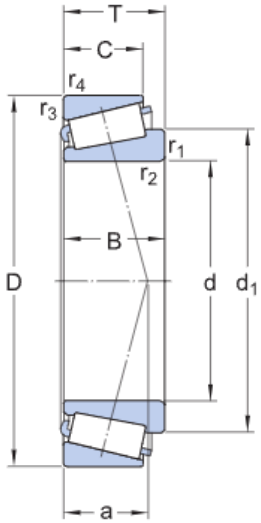
Basic dynamic load rating	38.1 kN
Basic static load rating	33.5 kN
Reference speed	11 000 r/min
Limiting speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

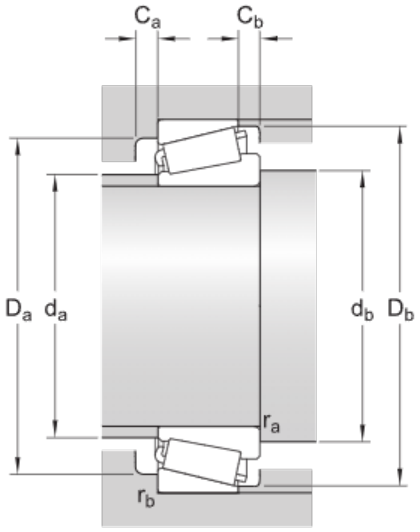
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3CC



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
T	16.25 mm	Total width
d_1	≈ 38 mm	Shoulder diameter of inner ring
B	15 mm	Width of inner ring
C	13 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	12.33 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 32 mm	Diameter of shaft abutment
d_b	min. 31.5 mm	Diameter of shaft abutment
D_a	min. 44 mm	Diameter of housing abutment
D_a	max. 46 mm	Diameter of housing abutment
D_b	min. 48 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	38.1 kN
Basic static load rating	C_0	33.5 kN
Fatigue load limit	P_u	3.45 kN
Reference speed		11 000 r/min
Limiting speed		13 000 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.15 kg

30206

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width, total	17.25 mm
Width, inner ring	16 mm
Width, outer ring	14 mm
Contact angle	14.036 °

Performance

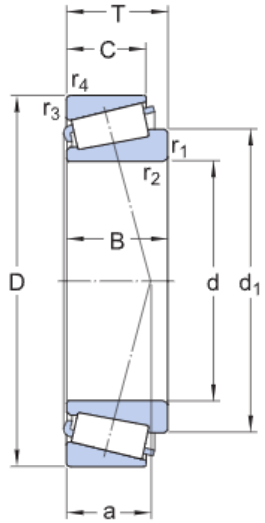
Basic dynamic load rating	50 kN
Basic static load rating	44 kN
Reference speed	9 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

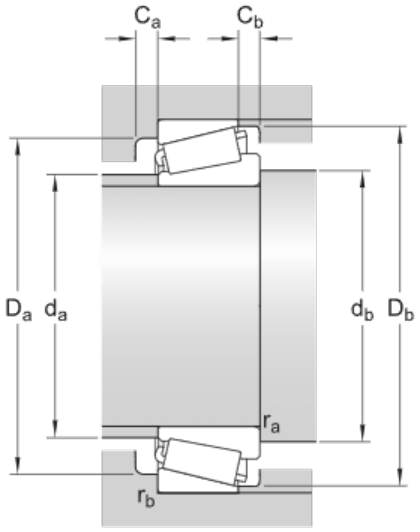
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DB



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
T	17.25 mm	Total width
d_1	≈ 45.3 mm	Shoulder diameter of inner ring
B	16 mm	Width of inner ring
C	14 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	13.65 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 38 mm	Diameter of shaft abutment
d_b	min. 37 mm	Diameter of shaft abutment
D_a	min. 53 mm	Diameter of housing abutment
D_a	max. 56 mm	Diameter of housing abutment
D_b	min. 57 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	50 kN
Basic static load rating	C_0	44 kN
Fatigue load limit	P_u	4.8 kN
Reference speed		9 000 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.23 kg

30207

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width, total	18.25 mm
Width, inner ring	17 mm
Width, outer ring	15 mm
Contact angle	14.036 °

Performance

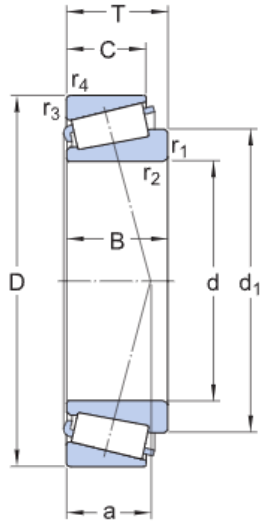
Basic dynamic load rating	63.2 kN
Basic static load rating	56 kN
Reference speed	8 000 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

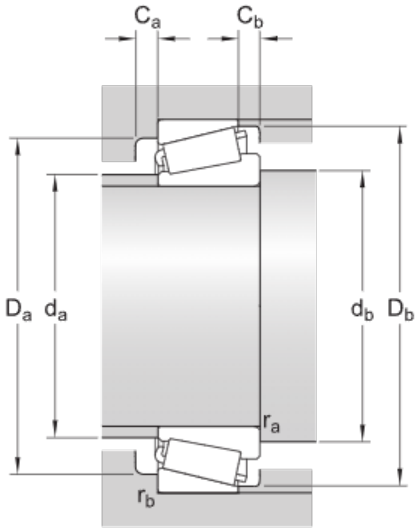
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DB



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
T	18.25 mm	Total width
d_1	≈ 51.95 mm	Shoulder diameter of inner ring
B	17 mm	Width of inner ring
C	15 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	14.95 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 44 mm	Diameter of shaft abutment
d_b	min. 43.5 mm	Diameter of shaft abutment
D_a	min. 62 mm	Diameter of housing abutment
D_a	max. 64.5 mm	Diameter of housing abutment
D_b	min. 67 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	63.2 kN
Basic static load rating	C_0	56 kN
Fatigue load limit	P_u	6.1 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.33 kg

30208

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width, total	19.75 mm
Width, inner ring	18 mm
Width, outer ring	16 mm
Contact angle	14.036 °

Performance

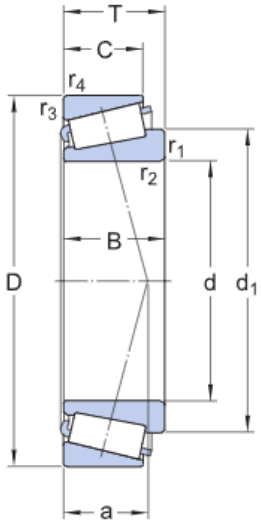
Basic dynamic load rating	75.8 kN
Basic static load rating	68 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

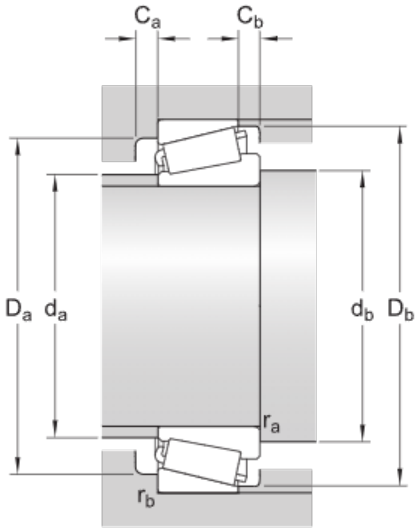
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DB



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
T	19.75 mm	Total width
d_1	≈ 57.55 mm	Shoulder diameter of inner ring
B	18 mm	Width of inner ring
C	16 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	16.05 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 49 mm	Diameter of shaft abutment
d_b	min. 48.5 mm	Diameter of shaft abutment
D_a	min. 69 mm	Diameter of housing abutment
D_a	max. 72.5 mm	Diameter of housing abutment
D_b	min. 74 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	75.8 kN
Basic static load rating	C_0	68 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.42 kg

30208 R

Single row tapered roller bearing with flanged outer ring

Single row tapered roller bearings with flanged outer rings are easy to locate axially in the housing. Because housing shoulders are not required, the housing bore can be manufactured more easily and cost-effectively. The bearings can accommodate combined radial and axial loads and provide low friction during operation. By combining two tapered roller bearings, a rigid bearing arrangement can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components
- Flange on the outer ring for easy location in the housing

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width, total	19.75 mm
Width, inner ring	18 mm
Width, outer ring	16 mm
Contact angle	14.036 °

Performance

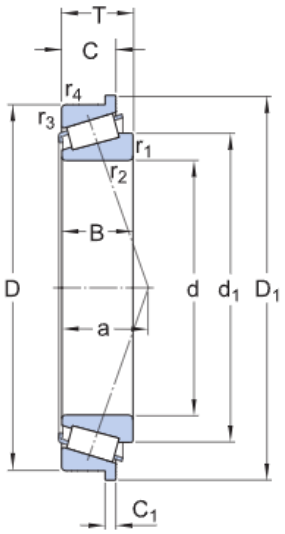
Basic dynamic load rating	75.8 kN
Basic static load rating	68 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	Flange
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

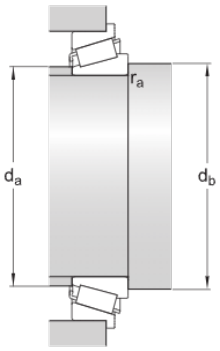
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DB



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
T	19.75 mm	Total width
d_1	≈ 57.55 mm	Shoulder diameter of inner ring
D_1	85 mm	Diameter of flange
B	18 mm	Width of inner ring
C	16 mm	Width of outer ring
C_1	4 mm	Width of flange
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	16.094 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 49 mm	Diameter of shaft abutment
d_b	min. 48.5 mm	Diameter of shaft abutment
r_a	max. 1.5 mm	Radius of shaft fillet

Calculation data

Basic dynamic load rating	C	75.8 kN
Basic static load rating	C_0	68 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.44 kg

30210

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width, total	21.75 mm
Width, inner ring	20 mm
Width, outer ring	17 mm
Contact angle	15.642 °

Performance

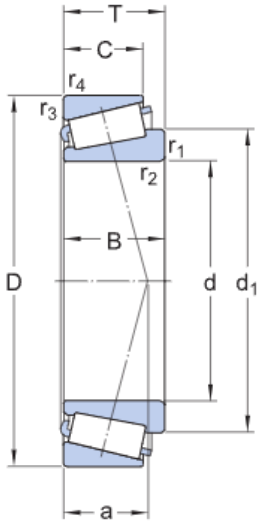
Basic dynamic load rating	93.1 kN
Basic static load rating	91.5 kN
Reference speed	6 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

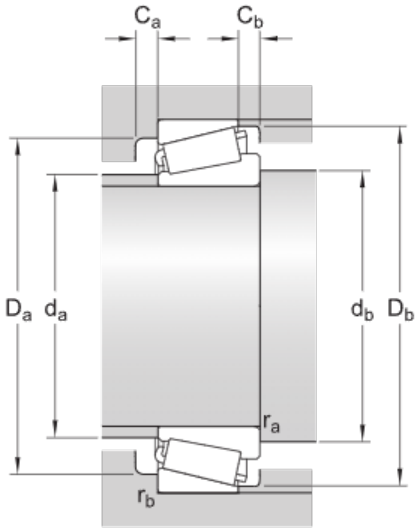
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DB



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
T	21.75 mm	Total width
d_1	≈ 68 mm	Shoulder diameter of inner ring
B	20 mm	Width of inner ring
C	17 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	19.248 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 59 mm	Diameter of shaft abutment
d_b	min. 59 mm	Diameter of shaft abutment
D_a	min. 79 mm	Diameter of housing abutment
D_a	max. 82 mm	Diameter of housing abutment
D_b	min. 85 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	93.1 kN
Basic static load rating	C_0	91.5 kN
Fatigue load limit	P_u	10.4 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.54 kg

30302

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	15 mm
Outside diameter	42 mm
Width, total	14.25 mm
Width, inner ring	13 mm
Width, outer ring	11 mm
Contact angle	10.758 °

Performance

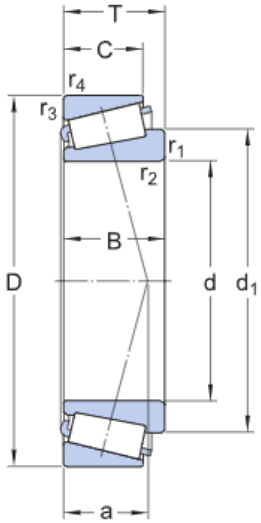
Basic dynamic load rating	27.7 kN
Basic static load rating	20 kN
Reference speed	15 000 r/min
Limiting speed	18 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

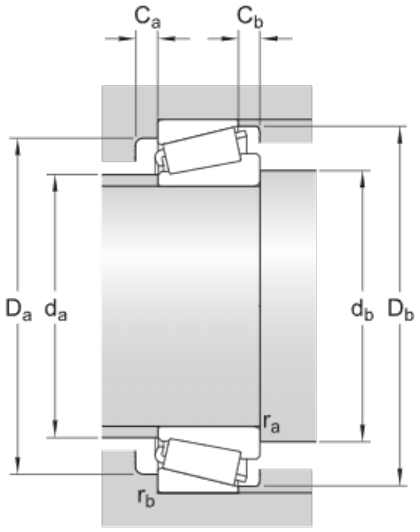
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FB



Dimensions

d	15 mm	Bore diameter
D	42 mm	Outside diameter
T	14.25 mm	Total width
d_1	≈ 27.384 mm	Shoulder diameter of inner ring
B	13 mm	Width of inner ring
C	11 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	9.45 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 22 mm	Diameter of shaft abutment
d_b	min. 21.5 mm	Diameter of shaft abutment
D_a	min. 36 mm	Diameter of housing abutment
D_a	max. 36.5 mm	Diameter of housing abutment
D_b	min. 38 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	27.7 kN
Basic static load rating	C_0	20 kN
Fatigue load limit	P_u	2.08 kN
Reference speed		15 000 r/min
Limiting speed		18 000 r/min
Limiting value	e	0.28
Calculation factor	Y	2.1
Calculation factor	Y_0	1.1

Mass

Mass	0.097 kg

30303

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	47 mm
Width, total	15.25 mm
Width, inner ring	14 mm
Width, outer ring	12 mm
Contact angle	10.758 °

Performance

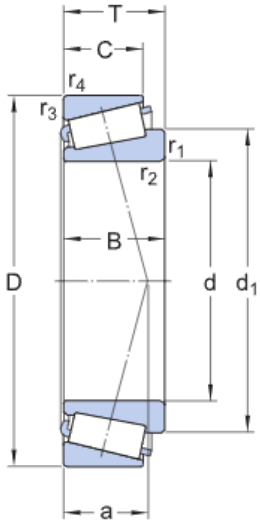
Basic dynamic load rating	34.2 kN
Basic static load rating	25 kN
Reference speed	13 000 r/min
Limiting speed	16 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

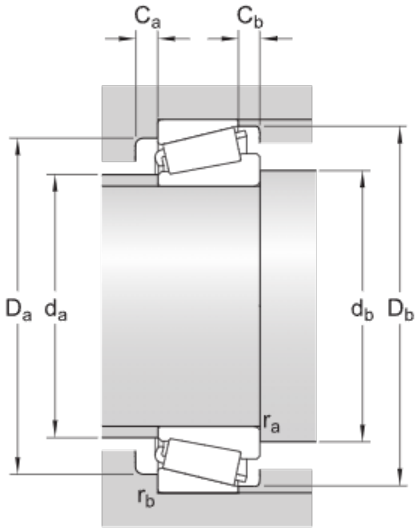
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FB



Dimensions

d	17 mm	Bore diameter
D	47 mm	Outside diameter
T	15.25 mm	Total width
d_1	≈ 30.55 mm	Shoulder diameter of inner ring
B	14 mm	Width of inner ring
C	12 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	10.15 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 25 mm	Diameter of shaft abutment
d_b	min. 23.5 mm	Diameter of shaft abutment
D_a	min. 40 mm	Diameter of housing abutment
D_a	max. 41.5 mm	Diameter of housing abutment
D_b	min. 42 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	34.2 kN
Basic static load rating	C_0	25 kN
Fatigue load limit	P_u	2.7 kN
Reference speed		13 000 r/min
Limiting speed		16 000 r/min
Limiting value	e	0.28
Calculation factor	Y	2.1
Calculation factor	Y_0	1.1

Mass

Mass	0.13 kg

30304

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width, total	16.25 mm
Width, inner ring	15 mm
Width, outer ring	13 mm
Contact angle	11.31 °

Performance

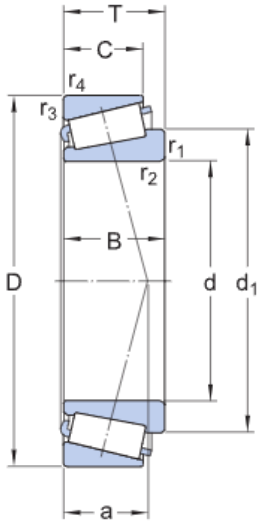
Basic dynamic load rating	41.9 kN
Basic static load rating	32.5 kN
Reference speed	12 000 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

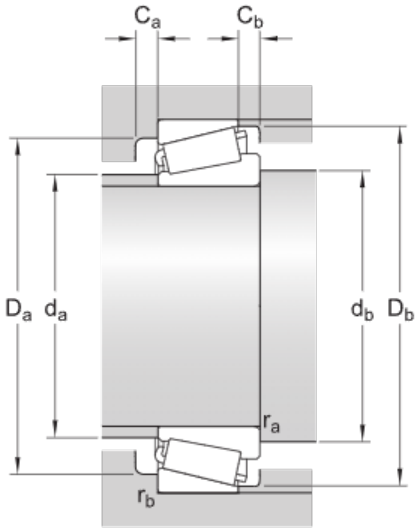
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FB



Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
T	16.25 mm	Total width
d_1	≈ 34.4 mm	Shoulder diameter of inner ring
B	15 mm	Width of inner ring
C	13 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	11.153 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 28 mm	Diameter of shaft abutment
d_b	min. 27.5 mm	Diameter of shaft abutment
D_a	min. 44 mm	Diameter of housing abutment
D_a	max. 45.5 mm	Diameter of housing abutment
D_b	min. 47 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	41.9 kN
Basic static load rating	C_0	32.5 kN
Fatigue load limit	P_u	3.55 kN
Reference speed		12 000 r/min
Limiting speed		14 000 r/min
Limiting value	e	0.3
Calculation factor	Y	2
Calculation factor	Y_0	1.1

Mass

Mass	0.17 kg

30305

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width, total	18.25 mm
Width, inner ring	17 mm
Width, outer ring	15 mm
Contact angle	11.31 °

Performance

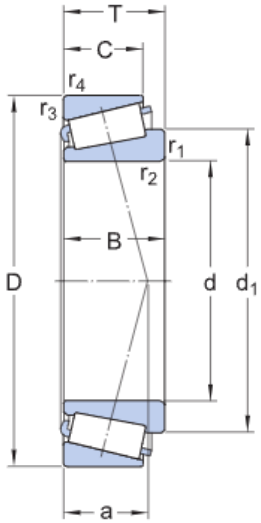
Basic dynamic load rating	55.3 kN
Basic static load rating	43 kN
Reference speed	9 500 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

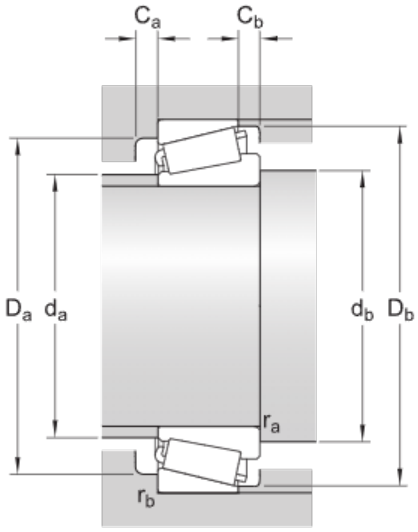
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FB



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
T	18.25 mm	Total width
d_1	≈ 41.5 mm	Shoulder diameter of inner ring
B	17 mm	Width of inner ring
C	15 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	12.75 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 35 mm	Diameter of shaft abutment
d_b	min. 33 mm	Diameter of shaft abutment
D_a	min. 54 mm	Diameter of housing abutment
D_a	max. 55 mm	Diameter of housing abutment
D_b	min. 57 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	55.3 kN
Basic static load rating	C_0	43 kN
Fatigue load limit	P_u	4.75 kN
Reference speed		9 500 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.3
Calculation factor	Y	2
Calculation factor	Y_0	1.1

Mass

Mass	0.26 kg

30306

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width, total	20.75 mm
Width, inner ring	19 mm
Width, outer ring	16 mm
Contact angle	11.86 °

Performance

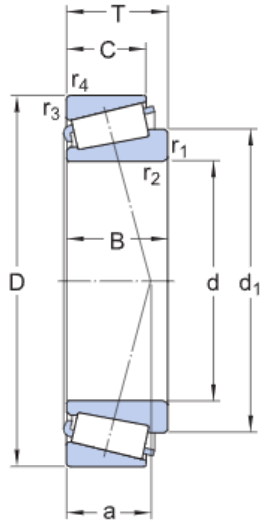
Basic dynamic load rating	69.2 kN
Basic static load rating	56 kN
Reference speed	8 000 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

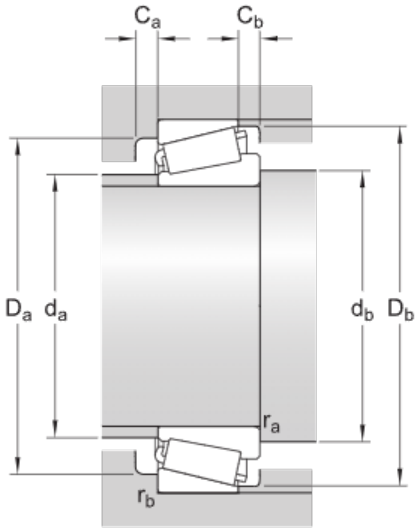
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FB



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
T	20.75 mm	Total width
d_1	≈ 48.45 mm	Shoulder diameter of inner ring
B	19 mm	Width of inner ring
C	16 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	14.65 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 41 mm	Diameter of shaft abutment
d_b	min. 38 mm	Diameter of shaft abutment
D_a	min. 62 mm	Diameter of housing abutment
D_a	max. 64.5 mm	Diameter of housing abutment
D_b	min. 66 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	69.2 kN
Basic static load rating	C_0	56 kN
Fatigue load limit	P_u	6.4 kN
Reference speed		8 000 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	Y_0	1.1

Mass

Mass	0.39 kg

30307

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width, total	22.75 mm
Width, inner ring	21 mm
Width, outer ring	18 mm
Contact angle	11.86 °

Performance

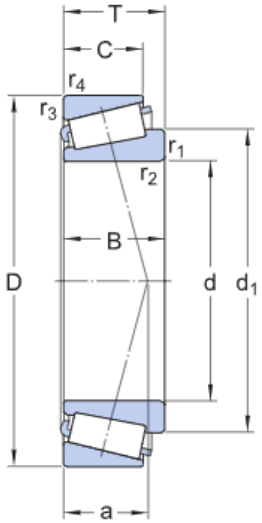
Basic dynamic load rating	88.9 kN
Basic static load rating	73.5 kN
Reference speed	7 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

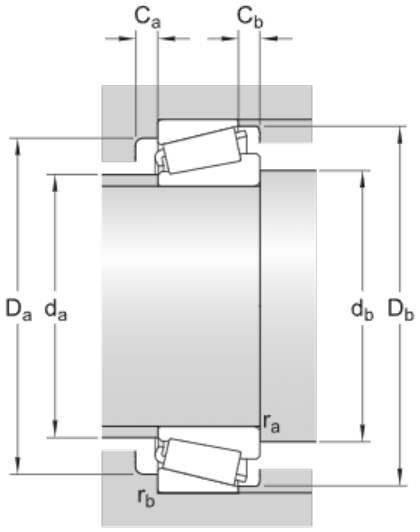
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FB



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
T	22.75 mm	Total width
d_1	≈ 54.55 mm	Shoulder diameter of inner ring
B	21 mm	Width of inner ring
C	18 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	16.181 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 46 mm	Diameter of shaft abutment
d_b	min. 44.5 mm	Diameter of shaft abutment
D_a	min. 70 mm	Diameter of housing abutment
D_a	max. 72.5 mm	Diameter of housing abutment
D_b	min. 74 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	88.9 kN
Basic static load rating	C_0	73.5 kN
Fatigue load limit	P_u	8.3 kN
Reference speed		7 500 r/min
Limiting speed		9 000 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	Y_0	1.1

Mass

Mass	0.51 kg

30308

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width, total	25.25 mm
Width, inner ring	23 mm
Width, outer ring	20 mm
Contact angle	12.953 °

Performance

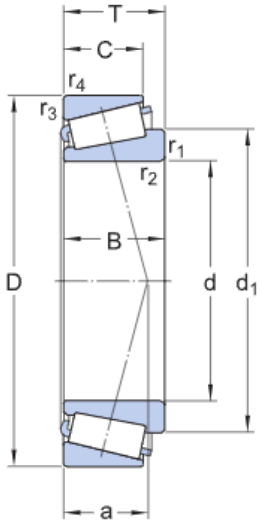
Basic dynamic load rating	106 kN
Basic static load rating	95 kN
Reference speed	6 300 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

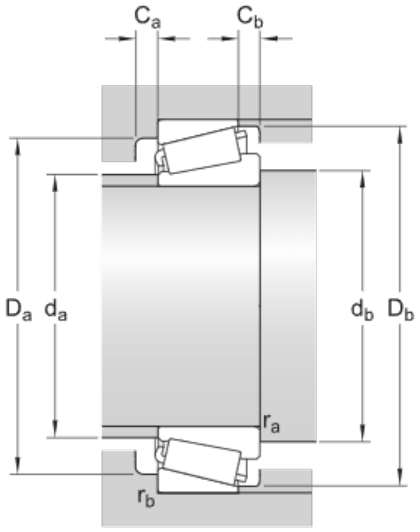
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FB



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
T	25.25 mm	Total width
d_1	≈ 62.55 mm	Shoulder diameter of inner ring
B	23 mm	Width of inner ring
C	20 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	19.05 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 49.5 mm	Diameter of shaft abutment
D_a	min. 77 mm	Diameter of housing abutment
D_a	max. 82 mm	Diameter of housing abutment
D_b	min. 82 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 5 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	95 kN
Fatigue load limit	P_u	10.8 kN
Reference speed		6 300 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.73 kg

30309

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width, total	27.25 mm
Width, inner ring	25 mm
Width, outer ring	22 mm
Contact angle	12.953 °

Performance

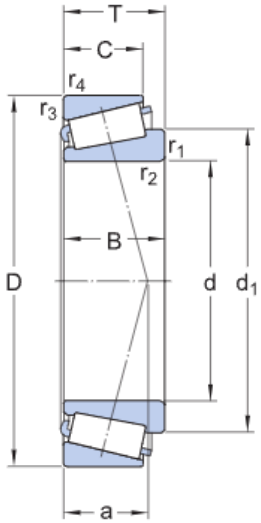
Basic dynamic load rating	132 kN
Basic static load rating	120 kN
Reference speed	5 600 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

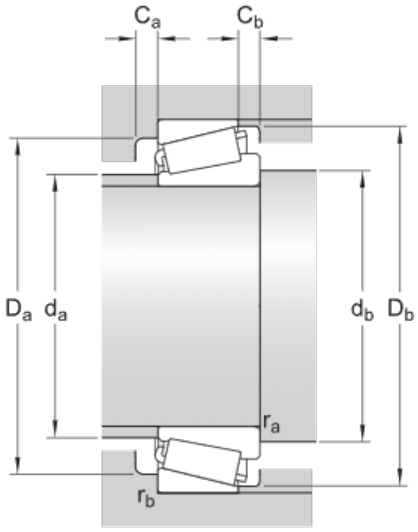
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FB



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
T	27.25 mm	Total width
d_1	≈ 70.2 mm	Shoulder diameter of inner ring
B	25 mm	Width of inner ring
C	22 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	20.75 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 59 mm	Diameter of shaft abutment
d_b	min. 55 mm	Diameter of shaft abutment
D_a	min. 86 mm	Diameter of housing abutment
D_a	max. 92 mm	Diameter of housing abutment
D_b	min. 92 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 5 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	132 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_u	14.3 kN
Reference speed		5 600 r/min
Limiting speed		7 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.97 kg

30310

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width, total	29.25 mm
Width, inner ring	27 mm
Width, outer ring	23 mm
Contact angle	12.953 °

Performance

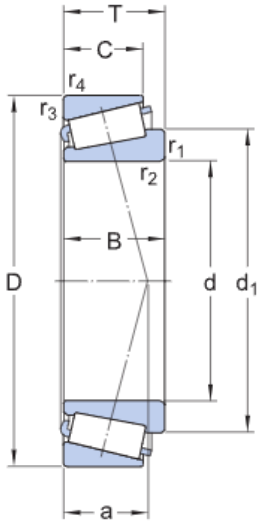
Basic dynamic load rating	154 kN
Basic static load rating	140 kN
Reference speed	5 300 r/min
Limiting speed	6 300 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

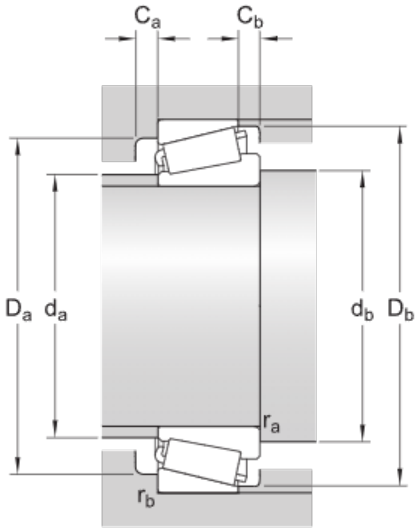
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FB



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
T	29.25 mm	Total width
d_1	≈ 77.2 mm	Shoulder diameter of inner ring
B	27 mm	Width of inner ring
C	23 mm	Width of outer ring
$r_{1,2}$	min. 2.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension of outer ring
a	22.533 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 66 mm	Diameter of shaft abutment
d_b	min. 61 mm	Diameter of shaft abutment
D_a	min. 95 mm	Diameter of housing abutment
D_a	max. 101 mm	Diameter of housing abutment
D_b	min. 102 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 2.5 mm	Radius of shaft fillet

r_b max. 2 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	154 kN
Basic static load rating	C_0	140 kN
Fatigue load limit	P_u	16.6 kN
Reference speed		5 300 r/min
Limiting speed		6 300 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	1.24 kg

31305/DF

Tapered roller bearing with two matched single row bearings arranged face-to-face

Tapered roller bearings with two matched single row bearings arranged face-to-face (X-arrangement) are based on popular sizes of single row tapered roller bearings. They have rows of rollers arranged face-to-face (load lines converge toward the bearing axis) and can accommodate tilting moments, axial loads in both directions and provide a relatively stiff bearing. They are typically used in gearboxes, hoisting equipment, rolling mills and machines in the mining industry, e.g. tunnelling machines.

- High radial load carrying capacity
- Designed for axial loads in both directions
- Accommodate tilting moment
- Relatively high stiffness
- Supplied with an intermediate outer ring spacer

Overview

Dimensions

Bore diameter	0.984 in
Outside diameter	2.441 in
Width, inner ring	1.339 in
Width, outer ring	1.437 in
Width, total	1.437 in

Performance

Basic dynamic load rating	17 962 lbf
Basic static load rating	17 985 lbf
Limiting speed	11 000 r/min
Reference speed	6 700 r/min
SKF performance class	SKF Explorer

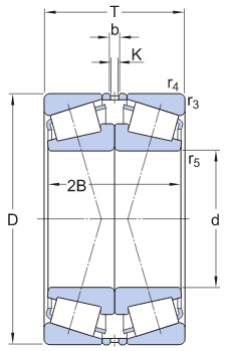
Properties

Arrangement of contact angle (double-row bearing)	Face-to-face (X)
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	Face-to-face (X)
Number of bearings in matched set	2

Number of rows	2
Relubrication feature	With
Sealing	Without
Sealing type	Not applicable

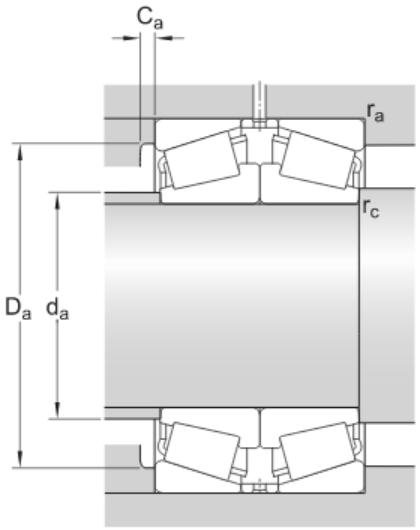
Technical Specification

SKF performance class	SKF Explorer



Dimensions

d	0.984 in	Bore diameter
D	2.441 in	Outside diameter
T	1.437 in	Total width
2B	1.339 in	Width of inner rings
b	0.197 in	Width of lubrication groove
K	0.157 in	Diameter of lubrication hole
$r_{3,4}$	min. 0.059 in	Chamfer dimension
r_5	min. 0.024 in	Chamfer dimension



Abutment dimensions

d_a	max. 1.339 in	Diameter of shaft abutment
D_a	min. 1.85 in	Diameter of housing abutment
D_a	max. 2.165 in	Diameter of housing abutment
C_a	min. 0.118 in	Minimum width of space required in housing on large side face
r_a	max. 0.059 in	Radius of fillet
r_c	max. 0.024 in	Radius of fillet

Calculation data

Basic dynamic load rating	C	17 962 lbf
Basic static load rating	C_0	17 985 lbf

Fatigue load limit	P_u	1 945 lbf
Reference speed		6 700 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.83
Calculation factor	Y_1	0.81
Calculation factor	Y_2	1.2
Calculation factor	Y_0	0.8

Mass

Mass	1.221 lb

31305

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width, total	18.25 mm
Width, inner ring	17 mm
Width, outer ring	13 mm
Contact angle	28.811 °

Performance

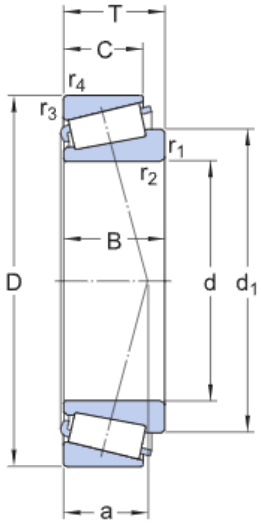
Basic dynamic load rating	46.6 kN
Basic static load rating	40 kN
Reference speed	8 500 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

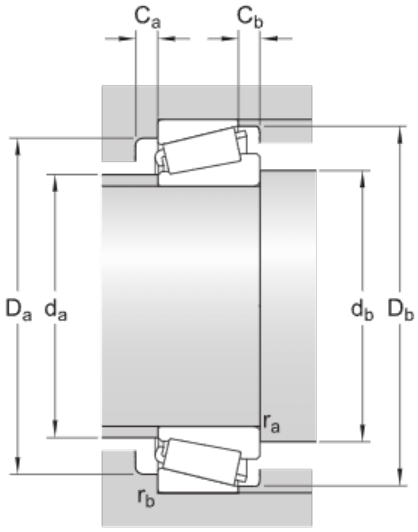
Technical Specification

SKF performance class	SKF Explorer
Dimension series	7FB



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
T	18.25 mm	Total width
d_1	≈ 45.8 mm	Shoulder diameter of inner ring
B	17 mm	Width of inner ring
C	13 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	19.689 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 34 mm	Diameter of shaft abutment
d_b	min. 33 mm	Diameter of shaft abutment
D_a	min. 47 mm	Diameter of housing abutment
D_a	max. 55 mm	Diameter of housing abutment
D_b	min. 59 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	46.6 kN
Basic static load rating	C_0	40 kN
Fatigue load limit	P_u	4.4 kN
Reference speed		8 500 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.83
Calculation factor	Y	0.72
Calculation factor	Y_0	0.4

Mass

Mass	0.27 kg

31306

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width, total	20.75 mm
Width, inner ring	19 mm
Width, outer ring	14 mm
Contact angle	28.811 °

Performance

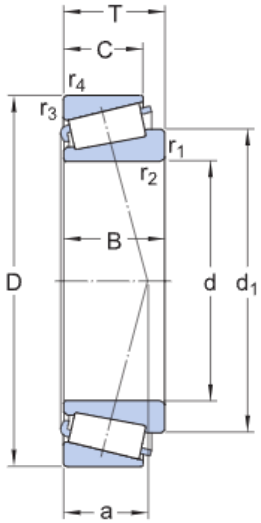
Basic dynamic load rating	58.3 kN
Basic static load rating	50 kN
Reference speed	7 500 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

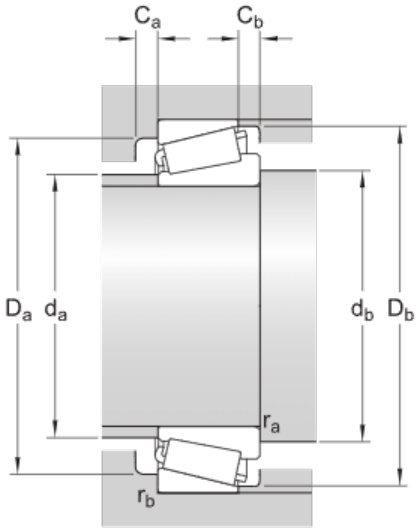
Technical Specification

SKF performance class	SKF Explorer
Dimension series	7FB



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
T	20.75 mm	Total width
d_1	≈ 52.75 mm	Shoulder diameter of inner ring
B	19 mm	Width of inner ring
C	14 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	22.335 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 40 mm	Diameter of shaft abutment
d_b	min. 38.5 mm	Diameter of shaft abutment
D_a	min. 55 mm	Diameter of housing abutment
D_a	max. 65 mm	Diameter of housing abutment
D_b	min. 68 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 6.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	58.3 kN
Basic static load rating	C_0	50 kN
Fatigue load limit	P_u	5.7 kN
Reference speed		7 500 r/min
Limiting speed		9 500 r/min
Limiting value	e	0.83
Calculation factor	Y	0.72
Calculation factor	Y_0	0.4

Mass

Mass	0.39 kg

31307

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width, total	22.75 mm
Width, inner ring	21 mm
Width, outer ring	15 mm
Contact angle	28.811 °

Performance

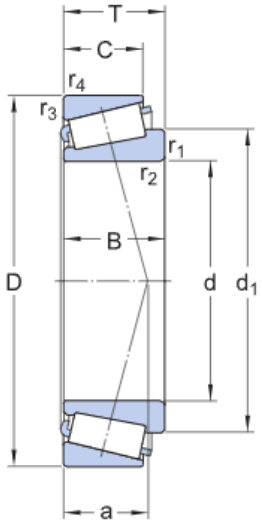
Basic dynamic load rating	75.4 kN
Basic static load rating	67 kN
Reference speed	6 300 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

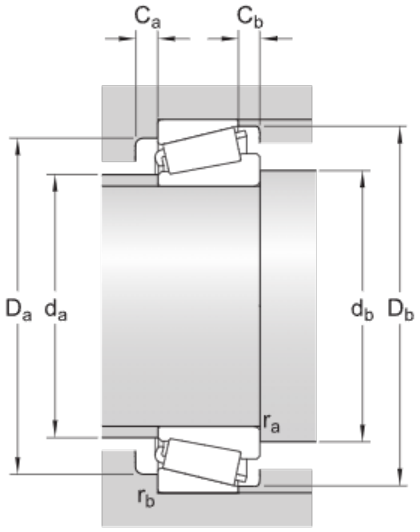
Technical Specification

SKF performance class	SKF Explorer
Dimension series	7FB



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
T	22.75 mm	Total width
d_1	≈ 59.6 mm	Shoulder diameter of inner ring
B	21 mm	Width of inner ring
C	15 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	24.95 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 45 mm	Diameter of shaft abutment
d_b	min. 44.5 mm	Diameter of shaft abutment
D_a	min. 62 mm	Diameter of housing abutment
D_a	max. 72.5 mm	Diameter of housing abutment
D_b	min. 76 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 7.5 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	75.4 kN
Basic static load rating	C_0	67 kN
Fatigue load limit	P_u	7.8 kN
Reference speed		6 300 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.83
Calculation factor	Y	0.72
Calculation factor	Y_0	0.4

Mass

Mass	0.52 kg

31308

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width, total	25.25 mm
Width, inner ring	23 mm
Width, outer ring	17 mm
Contact angle	28.811 °

Performance

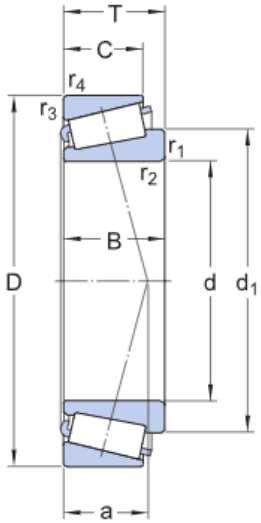
Basic dynamic load rating	91.1 kN
Basic static load rating	81.5 kN
Reference speed	5 600 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

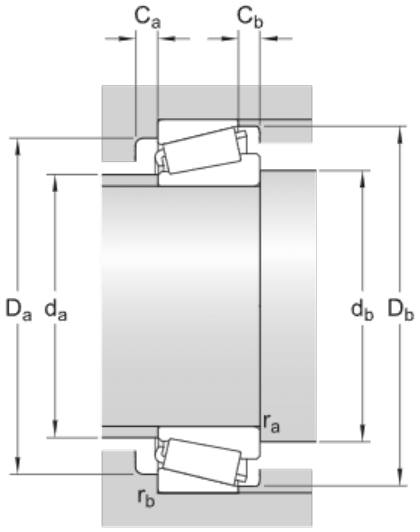
Technical Specification

SKF performance class	SKF Explorer
Dimension series	7FB



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
T	25.25 mm	Total width
d_1	≈ 67.15 mm	Shoulder diameter of inner ring
B	23 mm	Width of inner ring
C	17 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	28.252 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 51 mm	Diameter of shaft abutment
d_b	min. 50 mm	Diameter of shaft abutment
D_a	min. 71 mm	Diameter of housing abutment
D_a	max. 82.5 mm	Diameter of housing abutment
D_b	min. 86 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 8 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	91.1 kN
Basic static load rating	C_0	81.5 kN
Fatigue load limit	P_u	9.5 kN
Reference speed		5 600 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.83
Calculation factor	Y	0.72
Calculation factor	Y_0	0.4

Mass

Mass	0.72 kg

31309

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width, total	27.25 mm
Width, inner ring	25 mm
Width, outer ring	18 mm
Contact angle	28.811 °

Performance

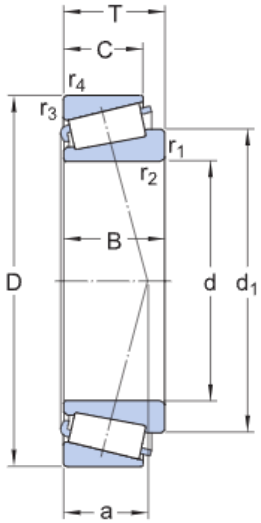
Basic dynamic load rating	113 kN
Basic static load rating	102 kN
Reference speed	5 000 r/min
Limiting speed	6 700 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

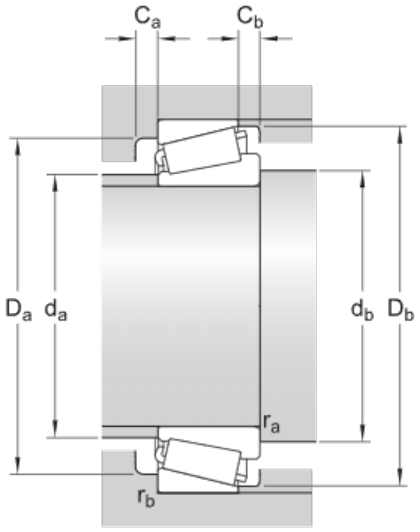
Technical Specification

SKF performance class	SKF Explorer
Dimension series	7FB



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
T	27.25 mm	Total width
d_1	≈ 74.7 mm	Shoulder diameter of inner ring
B	25 mm	Width of inner ring
C	18 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	31.05 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 57 mm	Diameter of shaft abutment
d_b	min. 55 mm	Diameter of shaft abutment
D_a	min. 79 mm	Diameter of housing abutment
D_a	max. 92 mm	Diameter of housing abutment
D_b	min. 95 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 9 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	113 kN
Basic static load rating	C_0	102 kN
Fatigue load limit	P_u	12.5 kN
Reference speed		5 000 r/min
Limiting speed		6 700 r/min
Limiting value	e	0.83
Calculation factor	Y	0.72
Calculation factor	Y_0	0.4

Mass

Mass	0.95 kg

31310

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width, total	29.25 mm
Width, inner ring	27 mm
Width, outer ring	19 mm
Contact angle	28.811 °

Performance

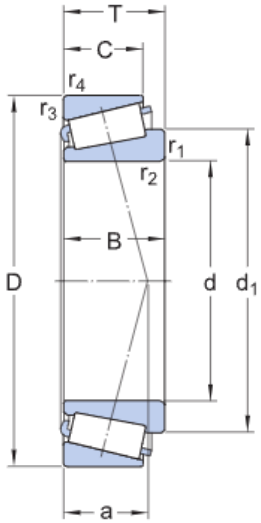
Basic dynamic load rating	131 kN
Basic static load rating	120 kN
Reference speed	4 500 r/min
Limiting speed	6 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

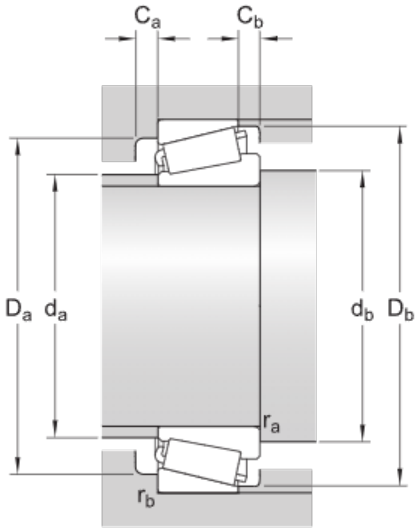
Technical Specification

SKF performance class	SKF Explorer
Dimension series	7FB



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
T	29.25 mm	Total width
d_1	≈ 81.5 mm	Shoulder diameter of inner ring
B	27 mm	Width of inner ring
C	19 mm	Width of outer ring
$r_{1,2}$	min. 2.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension of outer ring
a	33.669 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 63 mm	Diameter of shaft abutment
d_b	min. 61 mm	Diameter of shaft abutment
D_a	min. 87 mm	Diameter of housing abutment
D_a	max. 101 mm	Diameter of housing abutment
D_b	min. 104 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 10 mm	Minimum width of space required in housing on small side face
r_a	max. 2.5 mm	Radius of shaft fillet

r_b max. 2 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	131 kN
Basic static load rating	C_0	120 kN
Fatigue load limit	P_u	14.3 kN
Reference speed		4 500 r/min
Limiting speed		6 000 r/min
Limiting value	e	0.83
Calculation factor	Y	0.72
Calculation factor	Y_0	0.4

Mass

Mass	1.22 kg

32004 X

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	42 mm
Width, total	15 mm
Width, inner ring	15 mm
Width, outer ring	12 mm
Contact angle	14 °

Performance

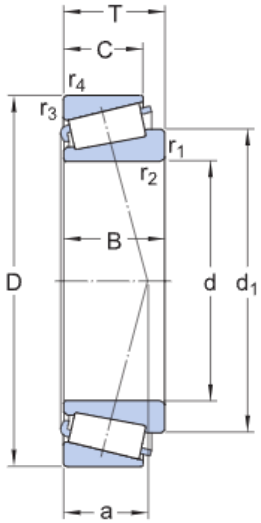
Basic dynamic load rating	29.7 kN
Basic static load rating	27 kN
Reference speed	13 000 r/min
Limiting speed	16 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

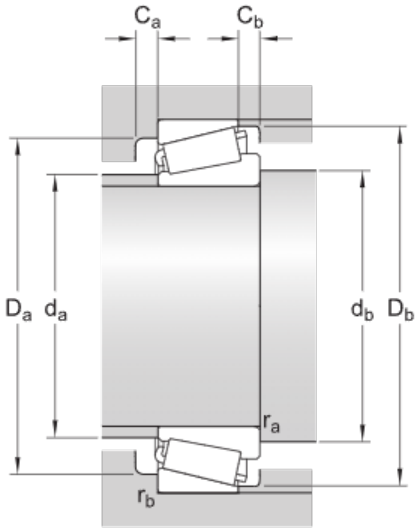
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3CC



Dimensions

d	20 mm	Bore diameter
D	42 mm	Outside diameter
T	15 mm	Total width
d_1	≈ 32.1 mm	Shoulder diameter of inner ring
B	15 mm	Width of inner ring
C	12 mm	Width of outer ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of outer ring
a	10.184 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 25 mm	Diameter of shaft abutment
d_b	min. 25.5 mm	Diameter of shaft abutment
D_a	min. 36 mm	Diameter of housing abutment
D_a	max. 37.5 mm	Diameter of housing abutment
D_b	min. 39 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 0.6 mm	Radius of shaft fillet

r_b	max. 0.6 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	29.7 kN
Basic static load rating	C_0	27 kN
Fatigue load limit	P_u	2.65 kN
Reference speed		13 000 r/min
Limiting speed		16 000 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.098 kg

32005 X

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	47 mm
Width, total	15 mm
Width, inner ring	15 mm
Width, outer ring	11.5 mm
Contact angle	16 °

Performance

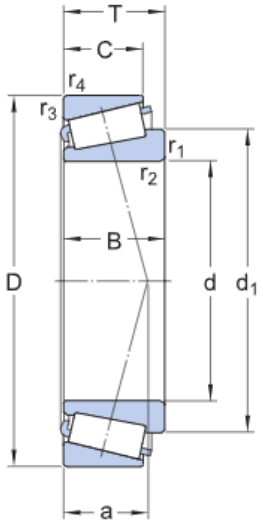
Basic dynamic load rating	33.2 kN
Basic static load rating	32.5 kN
Reference speed	12 000 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

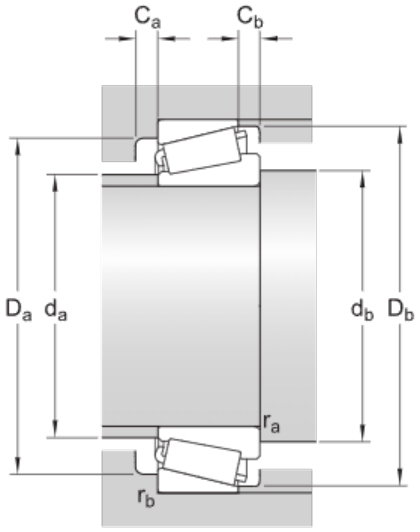
Technical Specification

SKF performance class	SKF Explorer
Dimension series	4CC



Dimensions

d	25 mm	Bore diameter
D	47 mm	Outside diameter
T	15 mm	Total width
d_1	≈ 37.5 mm	Shoulder diameter of inner ring
B	15 mm	Width of inner ring
C	11.5 mm	Width of outer ring
$r_{1,2}$	min. 0.6 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.6 mm	Chamfer dimension of outer ring
a	11.433 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 30 mm	Diameter of shaft abutment
d_b	min. 31 mm	Diameter of shaft abutment
D_a	min. 40 mm	Diameter of housing abutment
D_a	max. 42 mm	Diameter of housing abutment
D_b	min. 44 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 0.6 mm	Radius of shaft fillet

r_b	max. 0.6 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	33.2 kN
Basic static load rating	C_0	32.5 kN
Fatigue load limit	P_u	3.25 kN
Reference speed		12 000 r/min
Limiting speed		14 000 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.11 kg

32006 X

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	55 mm
Width, total	17 mm
Width, inner ring	17 mm
Width, outer ring	13 mm
Contact angle	16 °

Performance

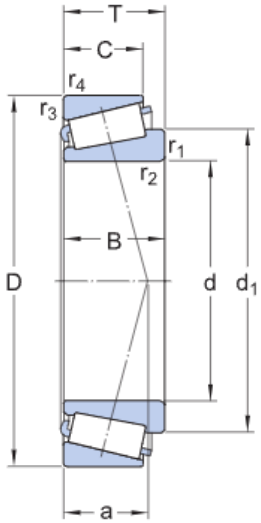
Basic dynamic load rating	43.9 kN
Basic static load rating	44 kN
Reference speed	10 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

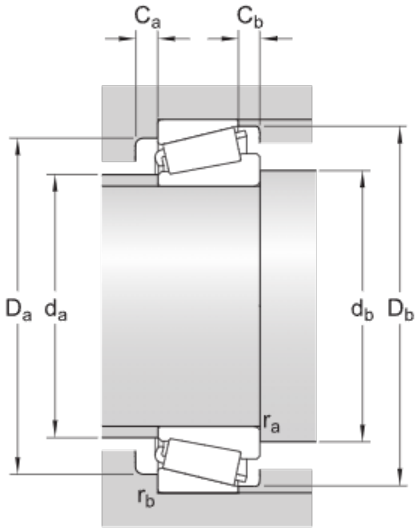
Technical Specification

SKF performance class	SKF Explorer
Dimension series	4CC



Dimensions

d	30 mm	Bore diameter
D	55 mm	Outside diameter
T	17 mm	Total width
d_1	≈ 43.6 mm	Shoulder diameter of inner ring
B	17 mm	Width of inner ring
C	13 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	13.165 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 36 mm	Diameter of shaft abutment
d_b	min. 37 mm	Diameter of shaft abutment
D_a	min. 48 mm	Diameter of housing abutment
D_a	max. 49 mm	Diameter of housing abutment
D_b	min. 52 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	43.9 kN
Basic static load rating	C_0	44 kN
Fatigue load limit	P_u	4.55 kN
Reference speed		10 000 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.17 kg

32007 X

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	62 mm
Width, total	18 mm
Width, inner ring	18 mm
Width, outer ring	14 mm
Contact angle	16.833 °

Performance

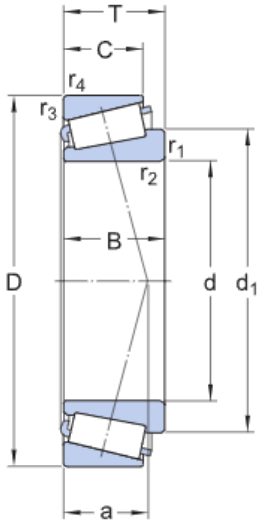
Basic dynamic load rating	52.3 kN
Basic static load rating	54 kN
Reference speed	8 500 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

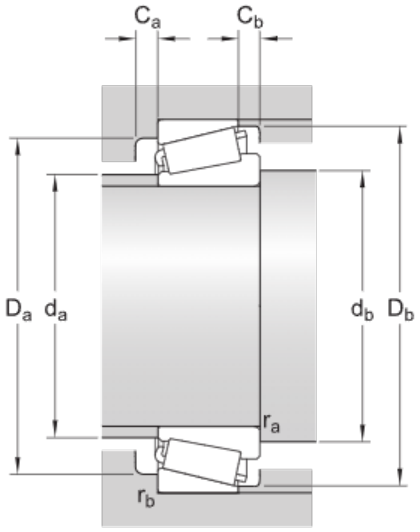
Technical Specification

SKF performance class	SKF Explorer
Dimension series	4CC



Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
T	18 mm	Total width
d_1	≈ 49.6 mm	Shoulder diameter of inner ring
B	18 mm	Width of inner ring
C	14 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	14.8 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 41 mm	Diameter of shaft abutment
d_b	min. 42 mm	Diameter of shaft abutment
D_a	min. 54 mm	Diameter of housing abutment
D_a	max. 56 mm	Diameter of housing abutment
D_b	min. 59 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	52.3 kN
Basic static load rating	C_0	54 kN
Fatigue load limit	P_u	5.85 kN
Reference speed		8 500 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.46
Calculation factor	Y	1.3
Calculation factor	Y_0	0.7

Mass

Mass	0.23 kg

32008 X

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	68 mm
Width, total	19 mm
Width, inner ring	19 mm
Width, outer ring	14.5 mm
Contact angle	14.167 °

Performance

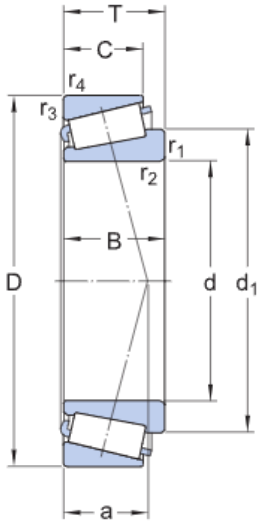
Basic dynamic load rating	64.7 kN
Basic static load rating	71 kN
Reference speed	7 500 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

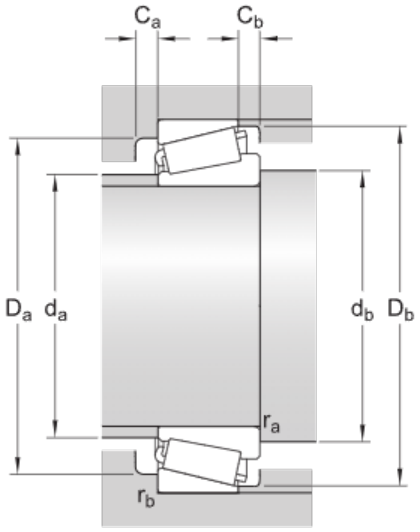
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3CD



Dimensions

d	40 mm	Bore diameter
D	68 mm	Outside diameter
T	19 mm	Total width
d_1	≈ 54.7 mm	Shoulder diameter of inner ring
B	19 mm	Width of inner ring
C	14.5 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	14.8 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 46 mm	Diameter of shaft abutment
d_b	min. 47.5 mm	Diameter of shaft abutment
D_a	min. 60 mm	Diameter of housing abutment
D_a	max. 61.5 mm	Diameter of housing abutment
D_b	min. 65 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	64.7 kN
Basic static load rating	C_0	71 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		7 500 r/min
Limiting speed		9 500 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.28 kg

32009 X

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	75 mm
Width, total	20 mm
Width, inner ring	20 mm
Width, outer ring	15.5 mm
Contact angle	14.667 °

Performance

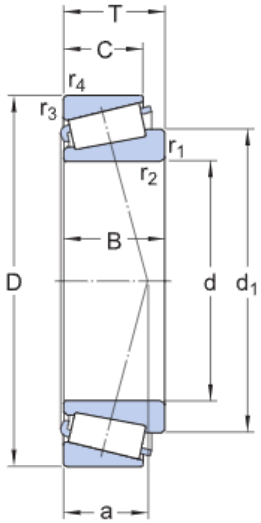
Basic dynamic load rating	71.7 kN
Basic static load rating	80 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

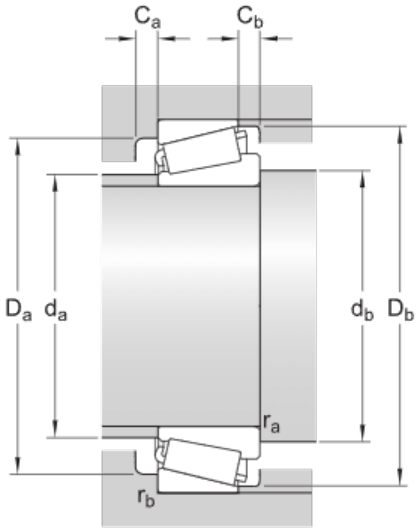
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3CC



Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
T	20 mm	Total width
d_1	≈ 60.73 mm	Shoulder diameter of inner ring
B	20 mm	Width of inner ring
C	15.5 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	16.3 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 52 mm	Diameter of shaft abutment
d_b	min. 52.5 mm	Diameter of shaft abutment
D_a	min. 67 mm	Diameter of housing abutment
D_a	max. 68.5 mm	Diameter of housing abutment
D_b	min. 72 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	71.7 kN
Basic static load rating	C_0	80 kN
Fatigue load limit	P_u	8.8 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.34 kg

32010 X

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	80 mm
Width, total	20 mm
Width, inner ring	20 mm
Width, outer ring	15.5 mm
Contact angle	15.75 °

Performance

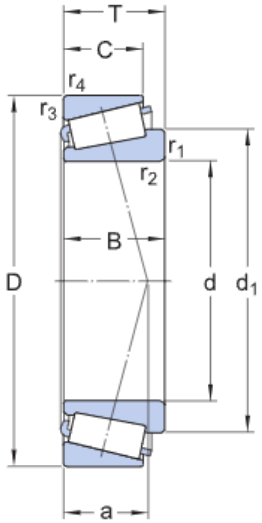
Basic dynamic load rating	75.1 kN
Basic static load rating	88 kN
Reference speed	6 300 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

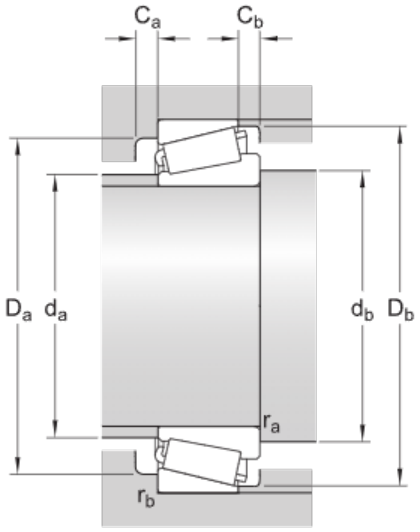
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3CC



Dimensions

d	50 mm	Bore diameter
D	80 mm	Outside diameter
T	20 mm	Total width
d_1	≈ 65.95 mm	Shoulder diameter of inner ring
B	20 mm	Width of inner ring
C	15.5 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	17.554 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 57 mm	Diameter of shaft abutment
d_b	min. 57.5 mm	Diameter of shaft abutment
D_a	min. 72 mm	Diameter of housing abutment
D_a	max. 73.5 mm	Diameter of housing abutment
D_b	min. 77 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	75.1 kN
Basic static load rating	C_0	88 kN
Fatigue load limit	P_u	9.65 kN
Reference speed		6 300 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.38 kg

32205 B

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width, total	19.25 mm
Width, inner ring	18 mm
Width, outer ring	15 mm
Contact angle	21.25 °

Performance

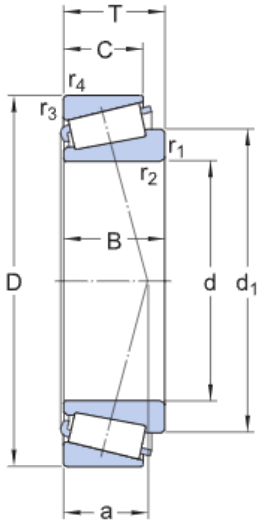
Basic dynamic load rating	44.5 kN
Basic static load rating	44 kN
Reference speed	10 000 r/min
Limiting speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

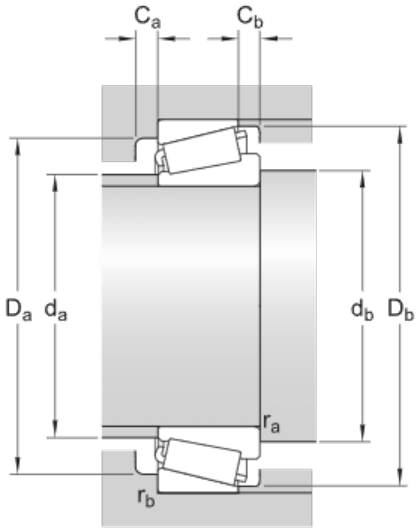
Technical Specification

SKF performance class	SKF Explorer
Dimension series	5CD



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
T	19.25 mm	Total width
d_1	≈ 41.5 mm	Shoulder diameter of inner ring
B	18 mm	Width of inner ring
C	15 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	15.81 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 30 mm	Diameter of shaft abutment
d_b	min. 32 mm	Diameter of shaft abutment
D_a	min. 41 mm	Diameter of housing abutment
D_a	max. 46.5 mm	Diameter of housing abutment
D_b	min. 50 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	44.5 kN
Basic static load rating	C_0	44 kN
Fatigue load limit	P_u	4.65 kN
Reference speed		10 000 r/min
Limiting speed		13 000 r/min
Limiting value	e	0.57
Calculation factor	Y	1.05
Calculation factor	Y_0	0.6

Mass

Mass	0.19 kg

32206

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width, total	21.25 mm
Width, inner ring	20 mm
Width, outer ring	17 mm
Contact angle	14.036 °

Performance

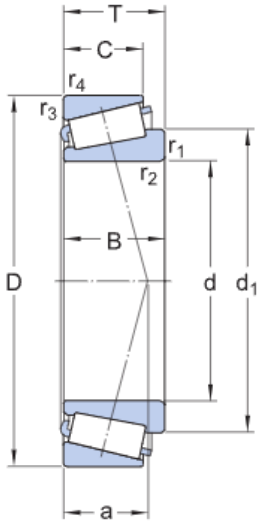
Basic dynamic load rating	61.8 kN
Basic static load rating	57 kN
Reference speed	9 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

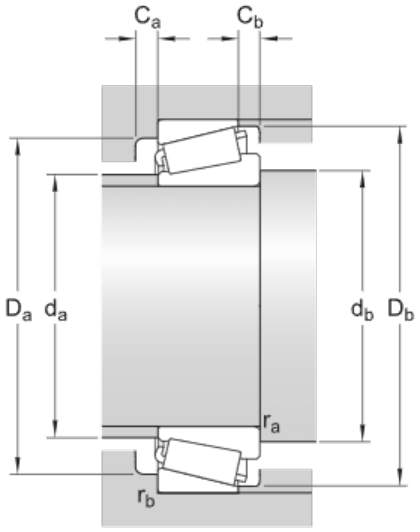
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DC



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
T	21.25 mm	Total width
d_1	≈ 45.2 mm	Shoulder diameter of inner ring
B	20 mm	Width of inner ring
C	17 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	15.15 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 37 mm	Diameter of shaft abutment
d_b	min. 37 mm	Diameter of shaft abutment
D_a	min. 52 mm	Diameter of housing abutment
D_a	max. 56 mm	Diameter of housing abutment
D_b	min. 58 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	61.8 kN
Basic static load rating	C_0	57 kN
Fatigue load limit	P_u	6.3 kN
Reference speed		9 000 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.29 kg

32207

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width, total	24.25 mm
Width, inner ring	23 mm
Width, outer ring	19 mm
Contact angle	14.036 °

Performance

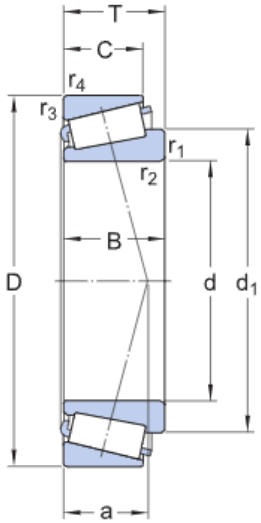
Basic dynamic load rating	81.2 kN
Basic static load rating	78 kN
Reference speed	8 000 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

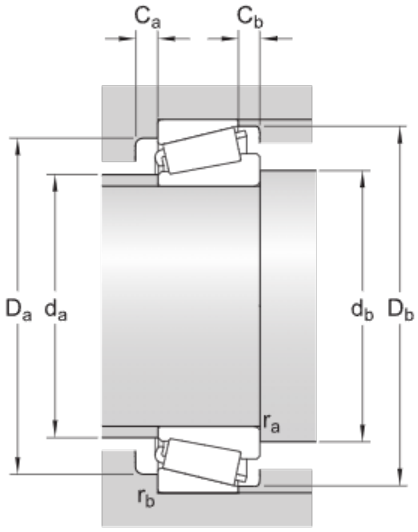
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DC



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
T	24.25 mm	Total width
d_1	≈ 52.4 mm	Shoulder diameter of inner ring
B	23 mm	Width of inner ring
C	19 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	17.45 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 43 mm	Diameter of shaft abutment
d_b	min. 43.5 mm	Diameter of shaft abutment
D_a	min. 61 mm	Diameter of housing abutment
D_a	max. 64.5 mm	Diameter of housing abutment
D_b	min. 67 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	81.2 kN
Basic static load rating	C_0	78 kN
Fatigue load limit	P_u	8.5 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.44 kg

32208

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width, total	24.75 mm
Width, inner ring	23 mm
Width, outer ring	19 mm
Contact angle	14.036 °

Performance

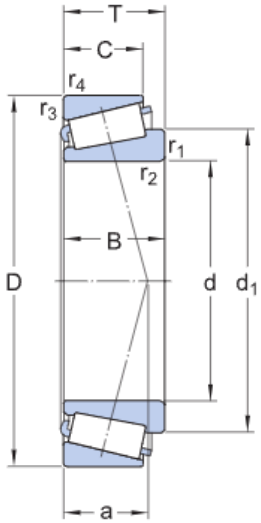
Basic dynamic load rating	91.6 kN
Basic static load rating	86.5 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

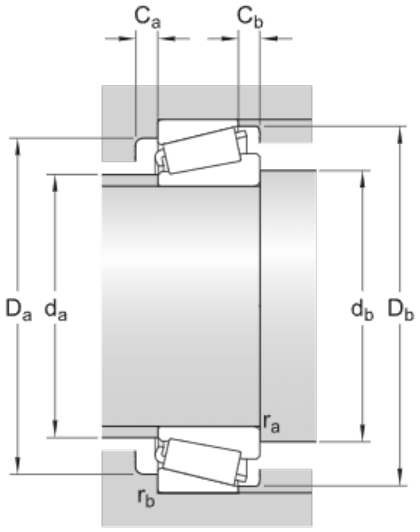
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DC



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
T	24.75 mm	Total width
d_1	≈ 58.45 mm	Shoulder diameter of inner ring
B	23 mm	Width of inner ring
C	19 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	18.639 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 49 mm	Diameter of shaft abutment
d_b	min. 48.5 mm	Diameter of shaft abutment
D_a	min. 68 mm	Diameter of housing abutment
D_a	max. 72.5 mm	Diameter of housing abutment
D_b	min. 75 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 5.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	91.6 kN
Basic static load rating	C_0	86.5 kN
Fatigue load limit	P_u	9.8 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.53 kg

32209

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width, total	24.75 mm
Width, inner ring	23 mm
Width, outer ring	19 mm
Contact angle	15.109 °

Performance

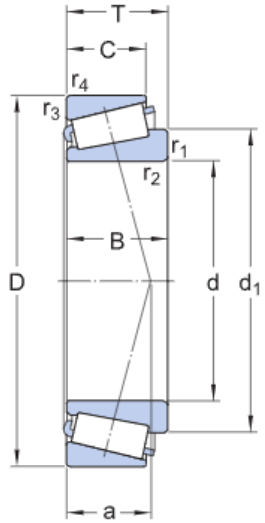
Basic dynamic load rating	98.7 kN
Basic static load rating	98 kN
Reference speed	6 300 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

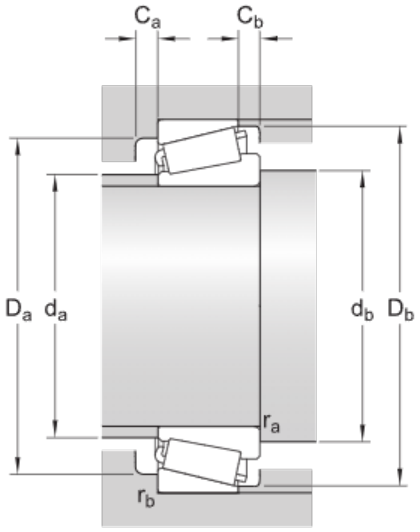
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DC



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
T	24.75 mm	Total width
d_1	≈ 64.1 mm	Shoulder diameter of inner ring
B	23 mm	Width of inner ring
C	19 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	19.883 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 54 mm	Diameter of shaft abutment
d_b	min. 53.5 mm	Diameter of shaft abutment
D_a	min. 73 mm	Diameter of housing abutment
D_a	max. 77.5 mm	Diameter of housing abutment
D_b	min. 80 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 5.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	98.7 kN
Basic static load rating	C_0	98 kN
Fatigue load limit	P_u	11 kN
Reference speed		6 300 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.58 kg

32210

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width, total	24.75 mm
Width, inner ring	23 mm
Width, outer ring	19 mm
Contact angle	15.642 °

Performance

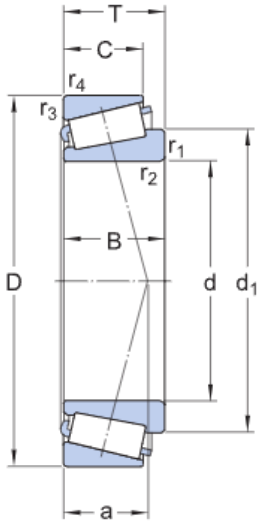
Basic dynamic load rating	101 kN
Basic static load rating	100 kN
Reference speed	6 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

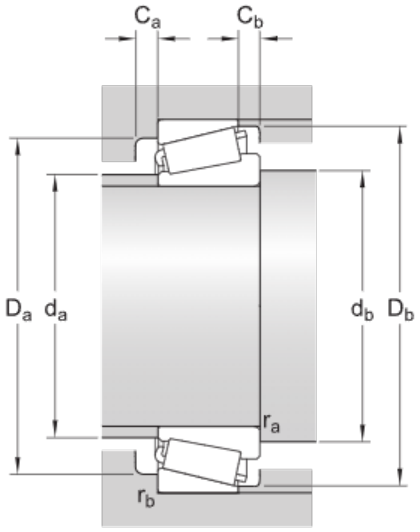
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DC



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
T	24.75 mm	Total width
d_1	≈ 68.5 mm	Shoulder diameter of inner ring
B	23 mm	Width of inner ring
C	19 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	20.769 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 58 mm	Diameter of shaft abutment
d_b	min. 59 mm	Diameter of shaft abutment
D_a	min. 78 mm	Diameter of housing abutment
D_a	max. 82 mm	Diameter of housing abutment
D_b	min. 85 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 5.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	101 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	11.4 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.62 kg

32303

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	47 mm
Width, total	20.25 mm
Width, inner ring	19 mm
Width, outer ring	16 mm
Contact angle	10.758 °

Performance

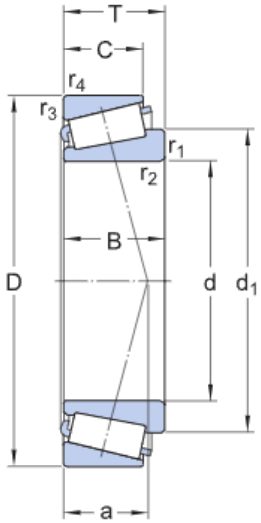
Basic dynamic load rating	42.8 kN
Basic static load rating	33.5 kN
Reference speed	12 000 r/min
Limiting speed	16 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

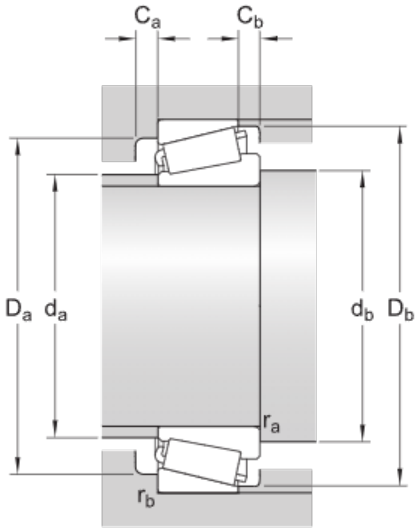
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FD



Dimensions

d	17 mm	Bore diameter
D	47 mm	Outside diameter
T	20.25 mm	Total width
d_1	≈ 30.7 mm	Shoulder diameter of inner ring
B	19 mm	Width of inner ring
C	16 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	12.15 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 24 mm	Diameter of shaft abutment
d_b	min. 23.5 mm	Diameter of shaft abutment
D_a	min. 39 mm	Diameter of housing abutment
D_a	max. 41.5 mm	Diameter of housing abutment
D_b	min. 43 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	42.8 kN
Basic static load rating	C_0	33.5 kN
Fatigue load limit	P_u	3.65 kN
Reference speed		12 000 r/min
Limiting speed		16 000 r/min
Limiting value	e	0.28
Calculation factor	Y	2.1
Calculation factor	Y_0	1.1

Mass

Mass	0.17 kg

32304

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	20 mm
Outside diameter	52 mm
Width, total	22.25 mm
Width, inner ring	21 mm
Width, outer ring	18 mm
Contact angle	11.31 °

Performance

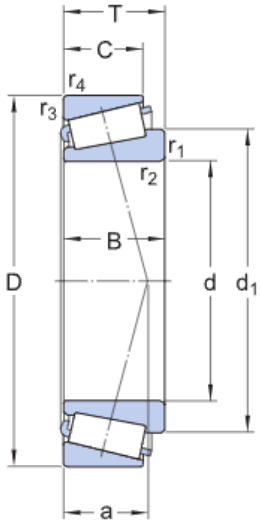
Basic dynamic load rating	54.3 kN
Basic static load rating	45.5 kN
Reference speed	11 000 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

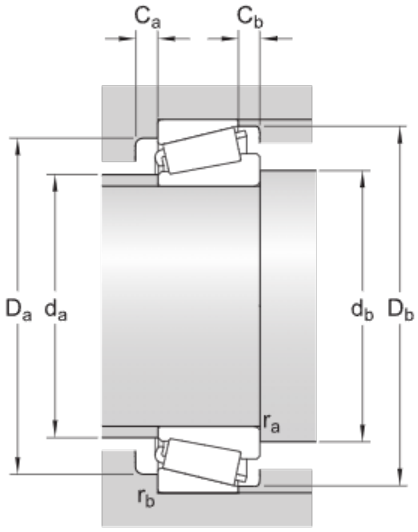
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FD



Dimensions

d	20 mm	Bore diameter
D	52 mm	Outside diameter
T	22.25 mm	Total width
d_1	≈ 34.6 mm	Shoulder diameter of inner ring
B	21 mm	Width of inner ring
C	18 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	13.618 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 27 mm	Diameter of shaft abutment
d_b	min. 27.5 mm	Diameter of shaft abutment
D_a	min. 43 mm	Diameter of housing abutment
D_a	max. 45.5 mm	Diameter of housing abutment
D_b	min. 47 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	54.3 kN
Basic static load rating	C_0	45.5 kN
Fatigue load limit	P_u	5 kN
Reference speed		11 000 r/min
Limiting speed		14 000 r/min
Limiting value	e	0.3
Calculation factor	Y	2
Calculation factor	Y_0	1.1

Mass

Mass	0.23 kg

32305

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width, total	25.25 mm
Width, inner ring	24 mm
Width, outer ring	20 mm
Contact angle	11.31 °

Performance

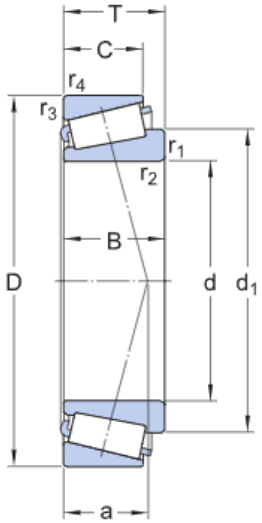
Basic dynamic load rating	74.1 kN
Basic static load rating	63 kN
Reference speed	9 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

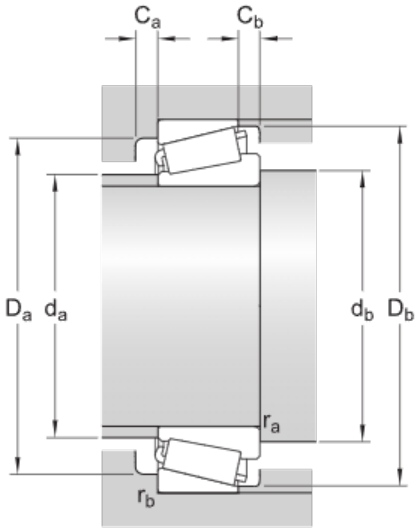
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FD



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
T	25.25 mm	Total width
d_1	≈ 41.7 mm	Shoulder diameter of inner ring
B	24 mm	Width of inner ring
C	20 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	15.25 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 33 mm	Diameter of shaft abutment
d_b	min. 33 mm	Diameter of shaft abutment
D_a	min. 52 mm	Diameter of housing abutment
D_a	max. 55 mm	Diameter of housing abutment
D_b	min. 57 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	74.1 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	7.1 kN
Reference speed		9 000 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.3
Calculation factor	Y	2
Calculation factor	Y_0	1.1

Mass

Mass	0.36 kg

32306

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width, total	28.75 mm
Width, inner ring	27 mm
Width, outer ring	23 mm
Contact angle	11.86 °

Performance

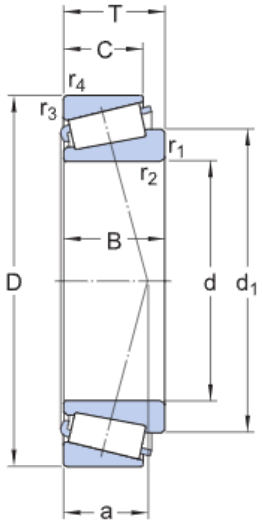
Basic dynamic load rating	95 kN
Basic static load rating	85 kN
Reference speed	7 500 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

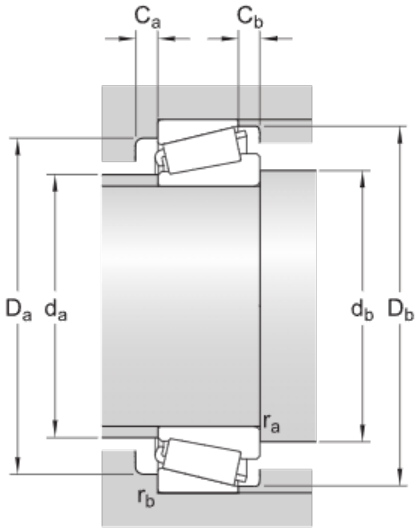
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FD



Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
T	28.75 mm	Total width
d_1	≈ 48.7 mm	Shoulder diameter of inner ring
B	27 mm	Width of inner ring
C	23 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	17.569 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 39 mm	Diameter of shaft abutment
d_b	min. 38 mm	Diameter of shaft abutment
D_a	min. 59 mm	Diameter of housing abutment
D_a	max. 65 mm	Diameter of housing abutment
D_b	min. 66 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 5.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	95 kN
Basic static load rating	C_0	85 kN
Fatigue load limit	P_u	9.65 kN
Reference speed		7 500 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	Y_0	1.1

Mass

Mass	0.55 kg

32307 B

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width, total	32.75 mm
Width, inner ring	31 mm
Width, outer ring	25 mm
Contact angle	20 °

Performance

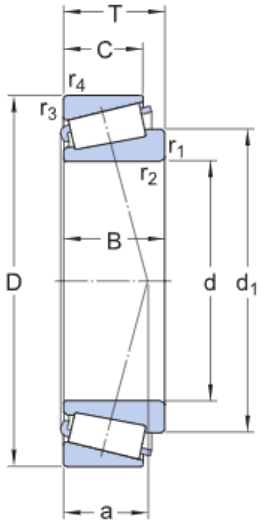
Basic dynamic load rating	115 kN
Basic static load rating	114 kN
Reference speed	6 300 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

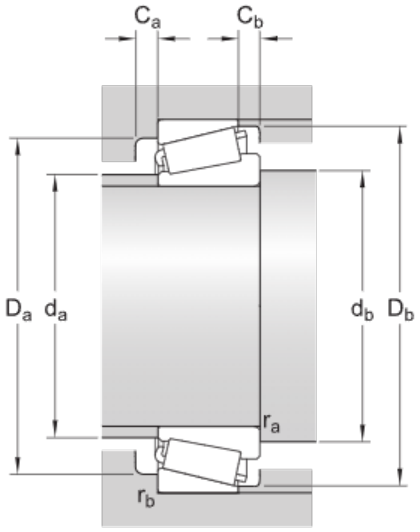
Technical Specification

SKF performance class	SKF Explorer
Dimension series	5FE



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
T	32.75 mm	Total width
d_1	≈ 59.35 mm	Shoulder diameter of inner ring
B	31 mm	Width of inner ring
C	25 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	24.322 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 43 mm	Diameter of shaft abutment
d_b	min. 44.5 mm	Diameter of shaft abutment
D_a	min. 61 mm	Diameter of housing abutment
D_a	max. 72.5 mm	Diameter of housing abutment
D_b	min. 76 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 7.5 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	115 kN
Basic static load rating	C_0	114 kN
Fatigue load limit	P_u	12.9 kN
Reference speed		6 300 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.8 kg

32307

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width, total	32.75 mm
Width, inner ring	31 mm
Width, outer ring	25 mm
Contact angle	11.86 °

Performance

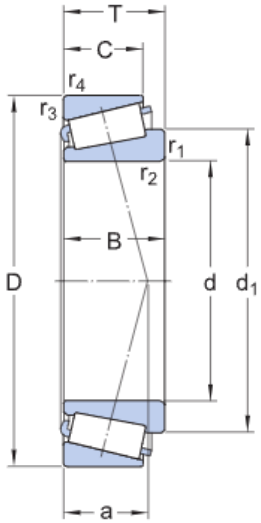
Basic dynamic load rating	117 kN
Basic static load rating	106 kN
Reference speed	6 700 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

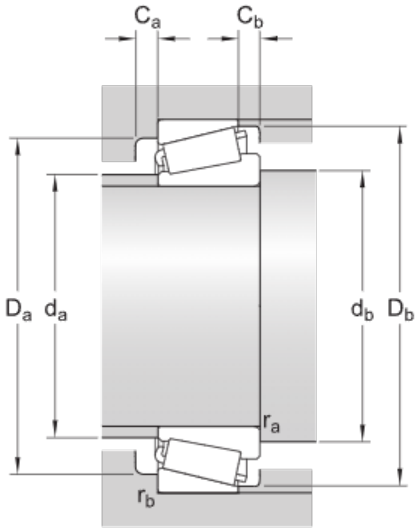
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FE



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
T	32.75 mm	Total width
d_1	≈ 54.85 mm	Shoulder diameter of inner ring
B	31 mm	Width of inner ring
C	25 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	20.15 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 44 mm	Diameter of shaft abutment
d_b	min. 44.5 mm	Diameter of shaft abutment
D_a	min. 66 mm	Diameter of housing abutment
D_a	max. 72.5 mm	Diameter of housing abutment
D_b	min. 74 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 7.5 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	117 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	12.2 kN
Reference speed		6 700 r/min
Limiting speed		9 000 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	Y_0	1.1

Mass

Mass	0.75 kg

32308

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width, total	35.25 mm
Width, inner ring	33 mm
Width, outer ring	27 mm
Contact angle	12.953 °

Performance

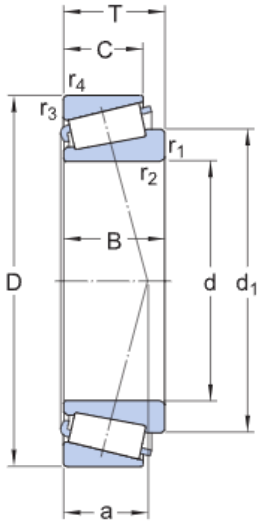
Basic dynamic load rating	143 kN
Basic static load rating	140 kN
Reference speed	6 000 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

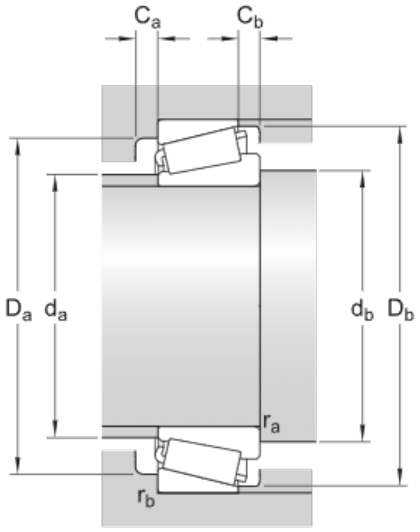
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FD



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
T	35.25 mm	Total width
d_1	≈ 62.95 mm	Shoulder diameter of inner ring
B	33 mm	Width of inner ring
C	27 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	22.95 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 51 mm	Diameter of shaft abutment
d_b	min. 49.5 mm	Diameter of shaft abutment
D_a	min. 73 mm	Diameter of housing abutment
D_a	max. 82.5 mm	Diameter of housing abutment
D_b	min. 82 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 8 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b max. 1.5 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	143 kN
Basic static load rating	C_0	140 kN
Fatigue load limit	P_u	16 kN
Reference speed		6 000 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	1.04 kg

32309 B/CL7C

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width, total	38.25 mm
Width, inner ring	36 mm
Width, outer ring	30 mm
Contact angle	20 °

Performance

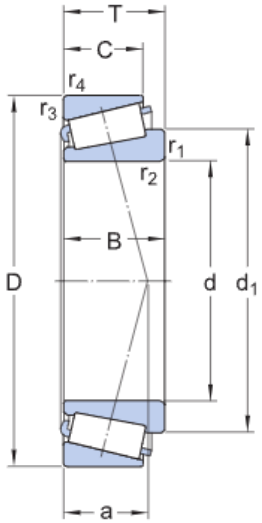
Basic dynamic load rating	166 kN
Basic static load rating	176 kN
Reference speed	5 000 r/min
Limiting speed	6 700 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

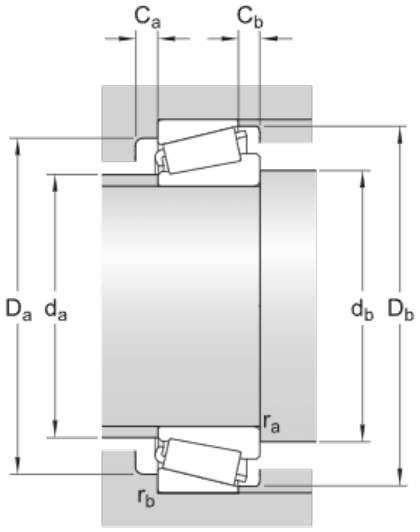
Technical Specification

SKF performance class	SKF Explorer
Dimension series	5FD



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
T	38.25 mm	Total width
d_1	≈ 76.13 mm	Shoulder diameter of inner ring
B	36 mm	Width of inner ring
C	30 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	29.905 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 56 mm	Diameter of shaft abutment
d_b	min. 55 mm	Diameter of shaft abutment
D_a	min. 76 mm	Diameter of housing abutment
D_a	max. 92 mm	Diameter of housing abutment
D_b	min. 94 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 8 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	166 kN
Basic static load rating	C_0	176 kN
Fatigue load limit	P_u	20 kN
Reference speed		5 000 r/min
Limiting speed		6 700 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	1.48 kg

32309

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	100 mm
Width, total	38.25 mm
Width, inner ring	36 mm
Width, outer ring	30 mm
Contact angle	12.953 °

Performance

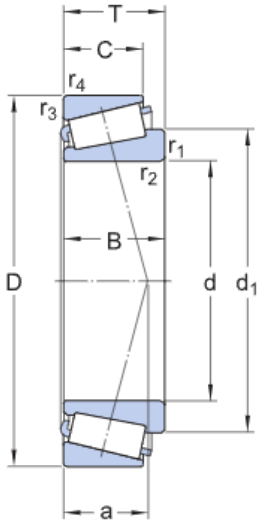
Basic dynamic load rating	173 kN
Basic static load rating	170 kN
Reference speed	5 300 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

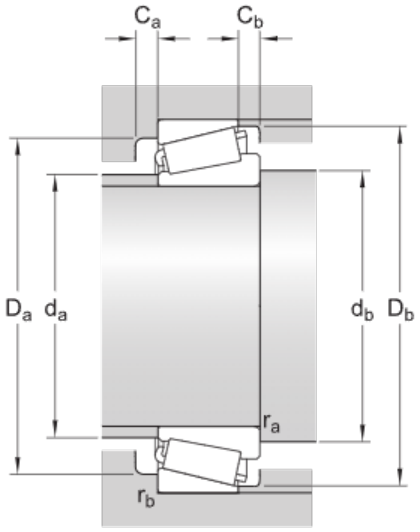
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FD



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
T	38.25 mm	Total width
d_1	≈ 71.1 mm	Shoulder diameter of inner ring
B	36 mm	Width of inner ring
C	30 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	24.75 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 57 mm	Diameter of shaft abutment
d_b	min. 55 mm	Diameter of shaft abutment
D_a	min. 82 mm	Diameter of housing abutment
D_a	max. 92 mm	Diameter of housing abutment
D_b	min. 93 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 8 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	173 kN
Basic static load rating	C_0	170 kN
Fatigue load limit	P_u	20.4 kN
Reference speed		5 300 r/min
Limiting speed		7 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	1.39 kg

32310 B

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width, total	42.25 mm
Width, inner ring	40 mm
Width, outer ring	33 mm
Contact angle	20 °

Performance

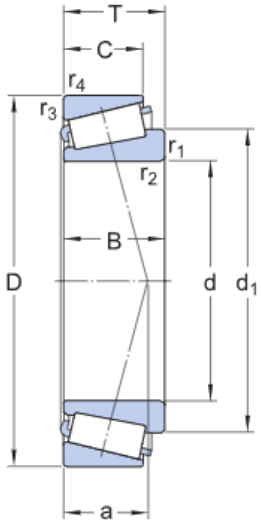
Basic dynamic load rating	196 kN
Basic static load rating	216 kN
Reference speed	4 500 r/min
Limiting speed	6 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

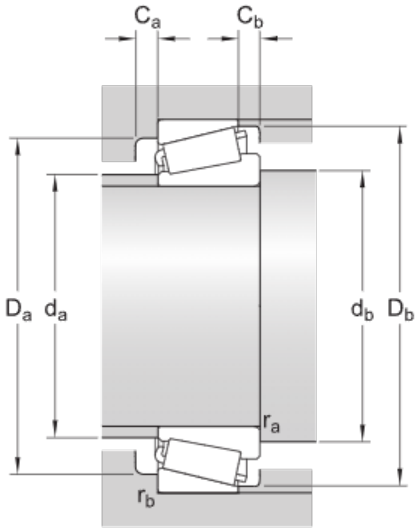
Technical Specification

SKF performance class	SKF Explorer
Dimension series	5FD



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
T	42.25 mm	Total width
d_1	≈ 83.1 mm	Shoulder diameter of inner ring
B	40 mm	Width of inner ring
C	33 mm	Width of outer ring
$r_{1,2}$	min. 2.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension of outer ring
a	33.591 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 62 mm	Diameter of shaft abutment
d_b	min. 61.5 mm	Diameter of shaft abutment
D_a	min. 83 mm	Diameter of housing abutment
D_a	max. 101 mm	Diameter of housing abutment
D_b	min. 103 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 9 mm	Minimum width of space required in housing on small side face
r_a	max. 2.5 mm	Radius of shaft fillet

r_b max. 2 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	196 kN
Basic static load rating	C_0	216 kN
Fatigue load limit	P_u	24.5 kN
Reference speed		4 500 r/min
Limiting speed		6 000 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	1.95 kg

32310

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width, total	42.25 mm
Width, inner ring	40 mm
Width, outer ring	33 mm
Contact angle	12.953 °

Performance

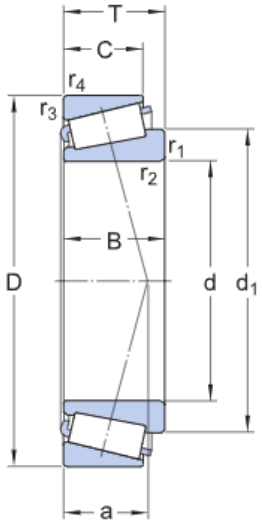
Basic dynamic load rating	211 kN
Basic static load rating	212 kN
Reference speed	4 800 r/min
Limiting speed	6 300 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

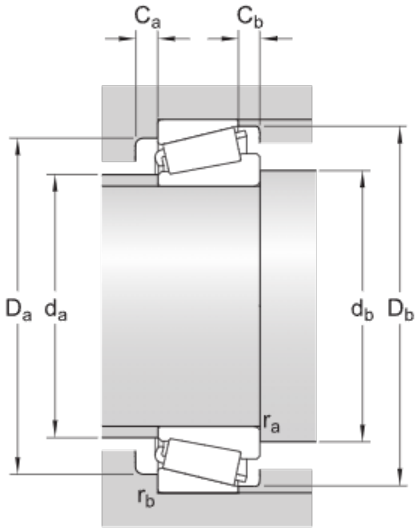
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2FD



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
T	42.25 mm	Total width
d_1	≈ 77.7 mm	Shoulder diameter of inner ring
B	40 mm	Width of inner ring
C	33 mm	Width of outer ring
$r_{1,2}$	min. 2.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension of outer ring
a	27.45 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 63 mm	Diameter of shaft abutment
d_b	min. 61 mm	Diameter of shaft abutment
D_a	min. 90 mm	Diameter of housing abutment
D_a	max. 101 mm	Diameter of housing abutment
D_b	min. 102 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 9 mm	Minimum width of space required in housing on small side face
r_a	max. 2.5 mm	Radius of shaft fillet

r_b max. 2 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	211 kN
Basic static load rating	C_0	212 kN
Fatigue load limit	P_u	24 kN
Reference speed		4 800 r/min
Limiting speed		6 300 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	1.84 kg

32910

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	72 mm
Width, total	15 mm
Width, inner ring	15 mm
Width, outer ring	12 mm
Contact angle	12.833 °

Performance

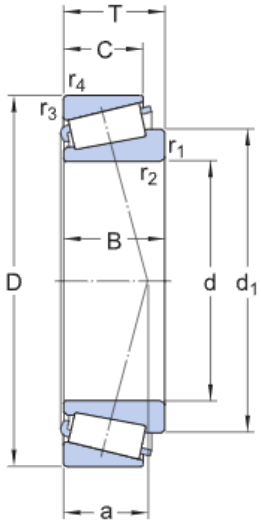
Basic dynamic load rating	41.3 kN
Basic static load rating	53 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

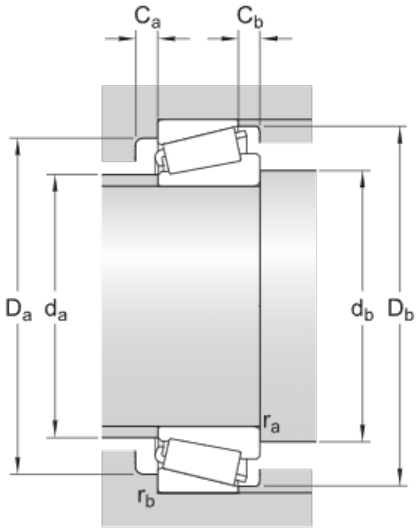
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2BC



Dimensions

d	50 mm	Bore diameter
D	72 mm	Outside diameter
T	15 mm	Total width
d_1	≈ 62.2 mm	Shoulder diameter of inner ring
B	15 mm	Width of inner ring
C	12 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	13.457 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 56 mm	Diameter of shaft abutment
d_b	min. 57.5 mm	Diameter of shaft abutment
D_a	min. 66 mm	Diameter of housing abutment
D_a	max. 66.5 mm	Diameter of housing abutment
D_b	min. 69 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	41.3 kN
Basic static load rating	C_0	53 kN
Fatigue load limit	P_u	5.6 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.19 kg

33010

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	80 mm
Width, total	24 mm
Width, inner ring	24 mm
Width, outer ring	19 mm
Contact angle	11.917 °

Performance

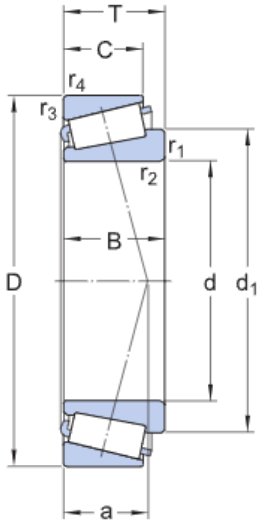
Basic dynamic load rating	84.8 kN
Basic static load rating	102 kN
Reference speed	6 300 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

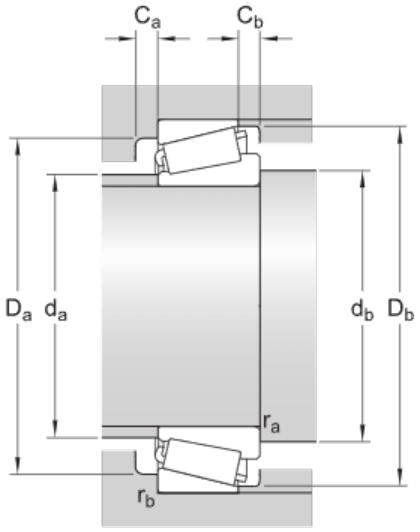
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2CE



Dimensions

d	50 mm	Bore diameter
D	80 mm	Outside diameter
T	24 mm	Total width
d_1	≈ 65.3 mm	Shoulder diameter of inner ring
B	24 mm	Width of inner ring
C	19 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	17.391 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 57 mm	Diameter of shaft abutment
d_b	min. 57.5 mm	Diameter of shaft abutment
D_a	min. 72 mm	Diameter of housing abutment
D_a	max. 73.5 mm	Diameter of housing abutment
D_b	min. 76 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 5 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b max. 1 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	84.8 kN
Basic static load rating	C_0	102 kN
Fatigue load limit	P_u	11.4 kN
Reference speed		6 300 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	Y_0	1.1

Mass

Mass	0.45 kg

33108

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	75 mm
Width, total	26 mm
Width, inner ring	26 mm
Width, outer ring	20.5 mm
Contact angle	13.333 °

Performance

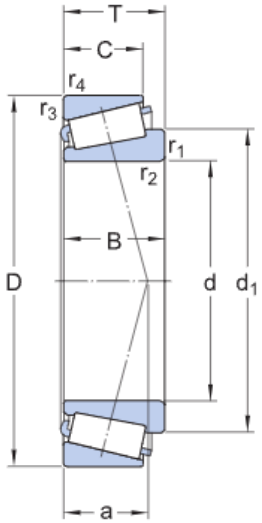
Basic dynamic load rating	97.5 kN
Basic static load rating	104 kN
Reference speed	7 000 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

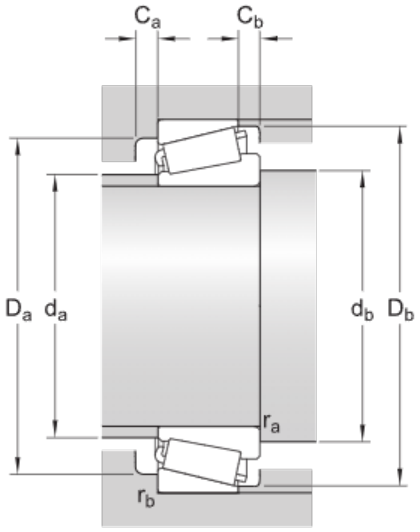
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2CE



Dimensions

d	40 mm	Bore diameter
D	75 mm	Outside diameter
T	26 mm	Total width
d_1	≈ 57.5 mm	Shoulder diameter of inner ring
B	26 mm	Width of inner ring
C	20.5 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	17.877 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 47 mm	Diameter of shaft abutment
d_b	min. 48.5 mm	Diameter of shaft abutment
D_a	min. 65 mm	Diameter of housing abutment
D_a	max. 67.5 mm	Diameter of housing abutment
D_b	min. 71 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 5.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	97.5 kN
Basic static load rating	C_0	104 kN
Fatigue load limit	P_u	11.4 kN
Reference speed		7 000 r/min
Limiting speed		9 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.5 kg

33109

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	80 mm
Width, total	26 mm
Width, inner ring	26 mm
Width, outer ring	20.5 mm
Contact angle	14.333 °

Performance

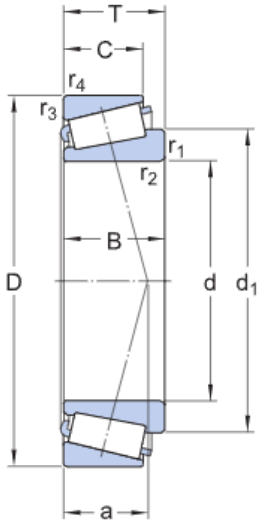
Basic dynamic load rating	104 kN
Basic static load rating	114 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

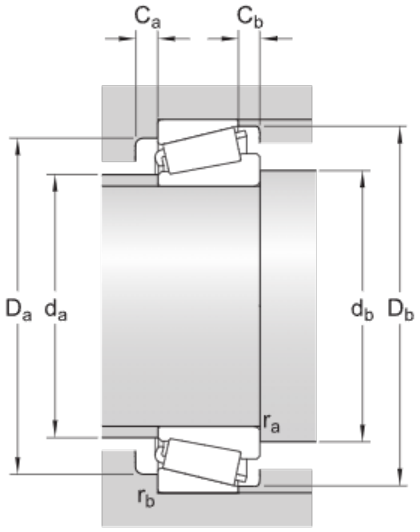
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3CE



Dimensions

d	45 mm	Bore diameter
D	80 mm	Outside diameter
T	26 mm	Total width
d_1	≈ 63.05 mm	Shoulder diameter of inner ring
B	26 mm	Width of inner ring
C	20.5 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	18.991 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 52 mm	Diameter of shaft abutment
d_b	min. 53.5 mm	Diameter of shaft abutment
D_a	min. 69 mm	Diameter of housing abutment
D_a	max. 72.5 mm	Diameter of housing abutment
D_b	min. 77 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 5.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	104 kN
Basic static load rating	C_0	114 kN
Fatigue load limit	P_u	12.9 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.55 kg

33110

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	85 mm
Width, total	26 mm
Width, inner ring	26 mm
Width, outer ring	20 mm
Contact angle	15.333 °

Performance

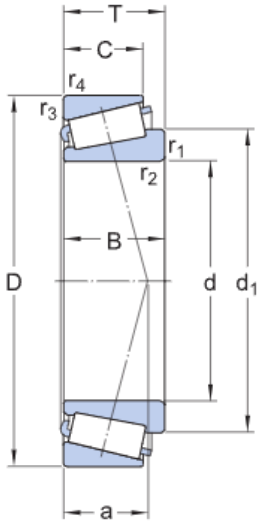
Basic dynamic load rating	106 kN
Basic static load rating	122 kN
Reference speed	6 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

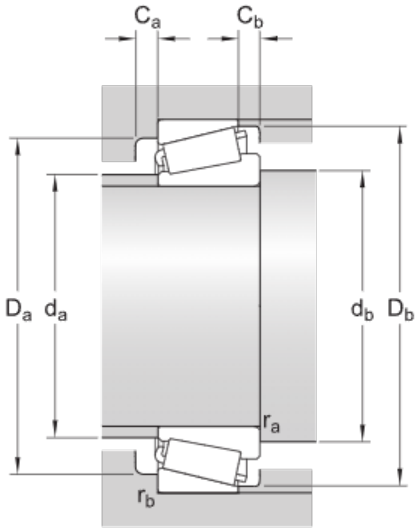
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3CE



Dimensions

d	50 mm	Bore diameter
D	85 mm	Outside diameter
T	26 mm	Total width
d_1	≈ 68 mm	Shoulder diameter of inner ring
B	26 mm	Width of inner ring
C	20 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	20.202 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 57 mm	Diameter of shaft abutment
d_b	min. 59 mm	Diameter of shaft abutment
D_a	min. 74 mm	Diameter of housing abutment
D_a	max. 77 mm	Diameter of housing abutment
D_b	min. 82 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	122 kN
Fatigue load limit	P_u	13.4 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.58 kg

33205

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width, total	22 mm
Width, inner ring	22 mm
Width, outer ring	18 mm
Contact angle	13.167 °

Performance

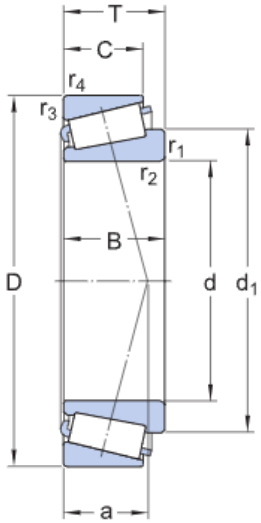
Basic dynamic load rating	57.9 kN
Basic static load rating	56 kN
Reference speed	10 000 r/min
Limiting speed	13 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

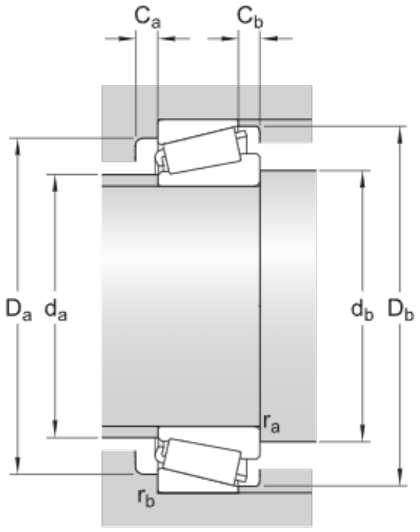
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2CE



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
T	22 mm	Total width
d_1	≈ 38.7 mm	Shoulder diameter of inner ring
B	22 mm	Width of inner ring
C	18 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	13.873 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 31 mm	Diameter of shaft abutment
d_b	min. 32 mm	Diameter of shaft abutment
D_a	min. 43 mm	Diameter of housing abutment
D_a	max. 46 mm	Diameter of housing abutment
D_b	min. 49 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	57.9 kN
Basic static load rating	C_0	56 kN
Fatigue load limit	P_u	6 kN
Reference speed		10 000 r/min
Limiting speed		13 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.22 kg

33206

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width, total	25 mm
Width, inner ring	25 mm
Width, outer ring	19.5 mm
Contact angle	12.833 °

Performance

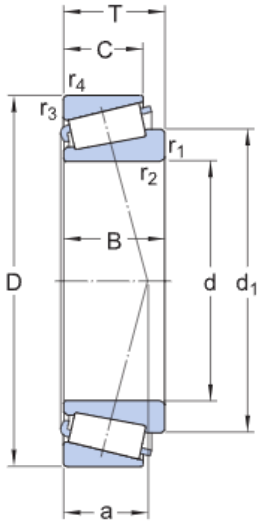
Basic dynamic load rating	79.7 kN
Basic static load rating	76.5 kN
Reference speed	8 500 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

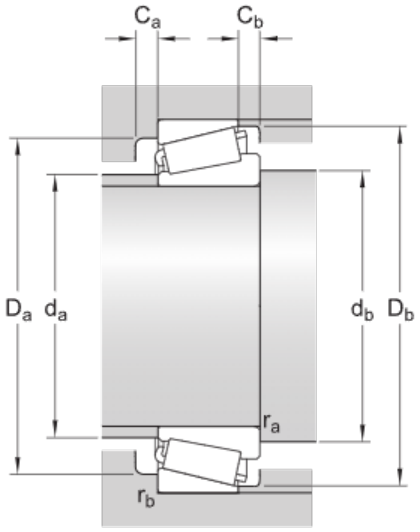
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2DE



Dimensions

d	30 mm	Bore diameter
D	62 mm	Outside diameter
T	25 mm	Total width
d_1	≈ 45.85 mm	Shoulder diameter of inner ring
B	25 mm	Width of inner ring
C	19.5 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	15.747 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 37 mm	Diameter of shaft abutment
d_b	min. 37 mm	Diameter of shaft abutment
D_a	min. 53 mm	Diameter of housing abutment
D_a	max. 56 mm	Diameter of housing abutment
D_b	min. 59 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 5.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1 mm	Radius of shaft fillet

r_b	max. 1 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	79.7 kN
Basic static load rating	C_0	76.5 kN
Fatigue load limit	P_u	8.5 kN
Reference speed		8 500 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.35 kg

33207

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width, total	28 mm
Width, inner ring	28 mm
Width, outer ring	22 mm
Contact angle	13.25 °

Performance

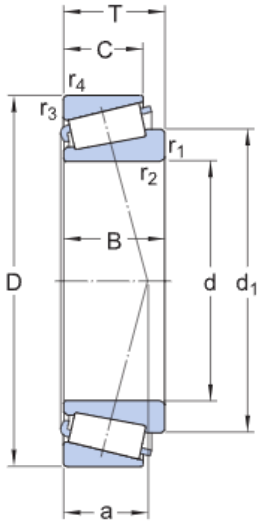
Basic dynamic load rating	104 kN
Basic static load rating	106 kN
Reference speed	7 000 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

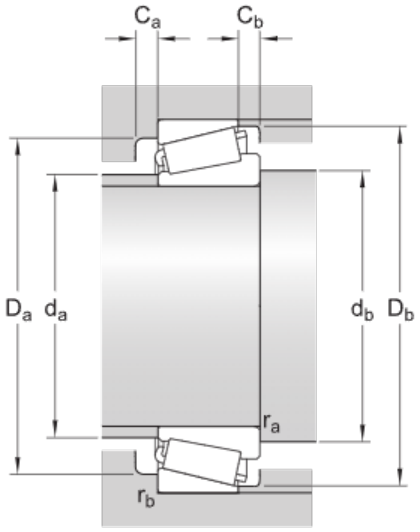
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2DE



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
T	28 mm	Total width
d_1	≈ 53.45 mm	Shoulder diameter of inner ring
B	28 mm	Width of inner ring
C	22 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	18.084 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 43 mm	Diameter of shaft abutment
d_b	min. 43.5 mm	Diameter of shaft abutment
D_a	min. 61 mm	Diameter of housing abutment
D_a	max. 64.5 mm	Diameter of housing abutment
D_b	min. 68 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	104 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		7 000 r/min
Limiting speed		9 500 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.53 kg

33208

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width, total	32 mm
Width, inner ring	32 mm
Width, outer ring	25 mm
Contact angle	13.417 °

Performance

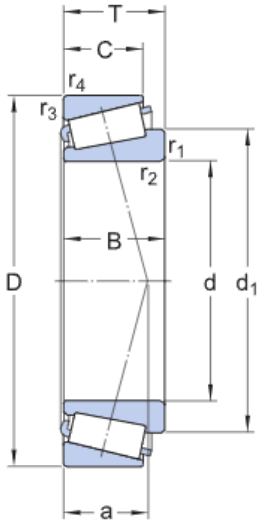
Basic dynamic load rating	128 kN
Basic static load rating	132 kN
Reference speed	6 300 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

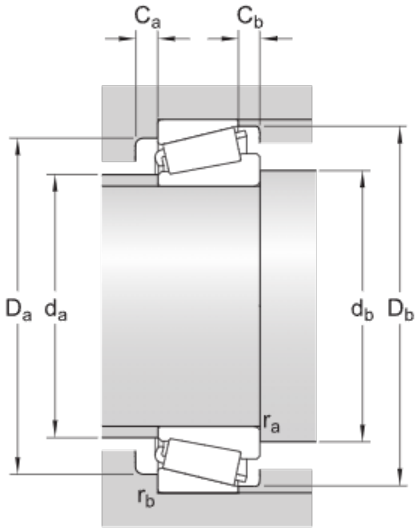
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2DE



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
T	32 mm	Total width
d_1	≈ 59.75 mm	Shoulder diameter of inner ring
B	32 mm	Width of inner ring
C	25 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	20.557 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 47 mm	Diameter of shaft abutment
d_b	min. 48.5 mm	Diameter of shaft abutment
D_a	min. 67 mm	Diameter of housing abutment
D_a	max. 72.5 mm	Diameter of housing abutment
D_b	min. 76 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 7 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	128 kN
Basic static load rating	C_0	132 kN
Fatigue load limit	P_u	15 kN
Reference speed		6 300 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.73 kg

33209

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	85 mm
Width, total	32 mm
Width, inner ring	32 mm
Width, outer ring	25 mm
Contact angle	14.417 °

Performance

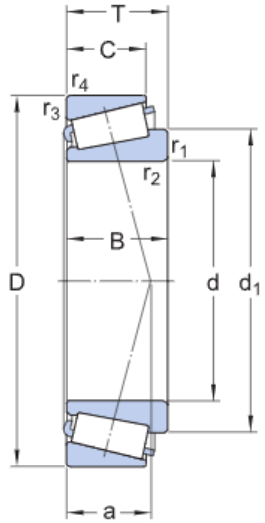
Basic dynamic load rating	132 kN
Basic static load rating	143 kN
Reference speed	6 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

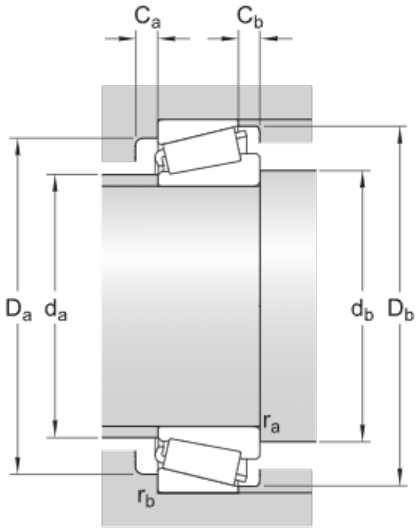
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DE



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
T	32 mm	Total width
d_1	≈ 65.35 mm	Shoulder diameter of inner ring
B	32 mm	Width of inner ring
C	25 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	21.715 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 52 mm	Diameter of shaft abutment
d_b	min. 53.5 mm	Diameter of shaft abutment
D_a	min. 72 mm	Diameter of housing abutment
D_a	max. 77.5 mm	Diameter of housing abutment
D_b	min. 81 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 7 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	132 kN
Basic static load rating	C_0	143 kN
Fatigue load limit	P_u	16.3 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.79 kg

33210

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width, total	32 mm
Width, inner ring	32 mm
Width, outer ring	24.5 mm
Contact angle	15.417 °

Performance

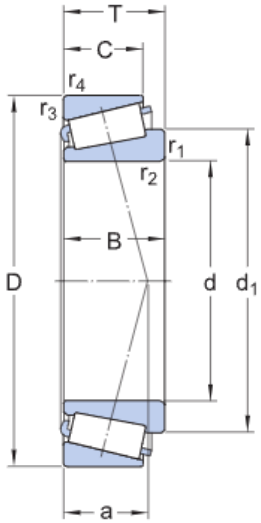
Basic dynamic load rating	142 kN
Basic static load rating	160 kN
Reference speed	5 300 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

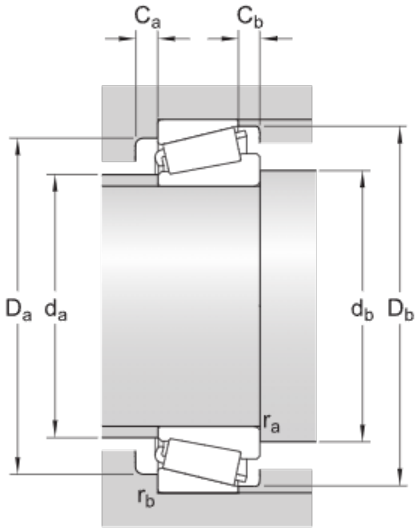
Technical Specification

SKF performance class	SKF Explorer
Dimension series	3DE



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
T	32 mm	Total width
d_1	≈ 70.8 mm	Shoulder diameter of inner ring
B	32 mm	Width of inner ring
C	24.5 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	22.975 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 57 mm	Diameter of shaft abutment
d_b	min. 59 mm	Diameter of shaft abutment
D_a	min. 77 mm	Diameter of housing abutment
D_a	max. 82 mm	Diameter of housing abutment
D_b	min. 87 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 7.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	142 kN
Basic static load rating	C_0	160 kN
Fatigue load limit	P_u	18.3 kN
Reference speed		5 300 r/min
Limiting speed		7 000 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.86 kg

53178/53377

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	44.45 mm
Outside diameter	95.25 mm
Width, total	30.958 mm
Width, inner ring	28.3 mm
Width, outer ring	20.638 mm
Contact angle	26.25 °

Performance

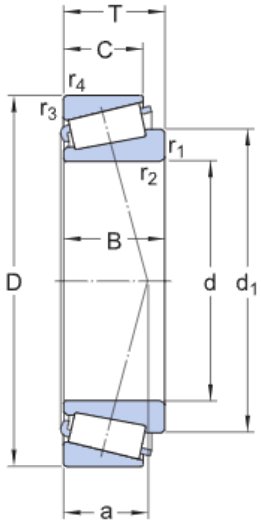
Basic dynamic load rating	108 kN
Basic static load rating	96.5 kN
Reference speed	5 300 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

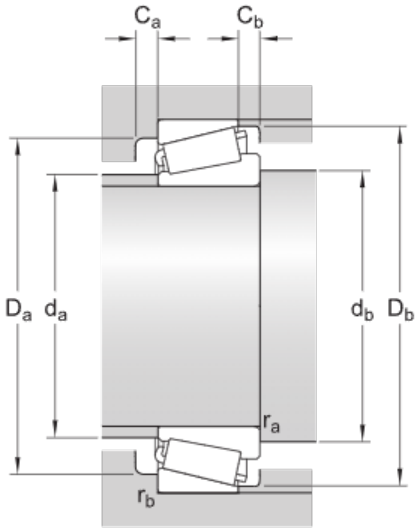
Technical Specification

SKF performance class	SKF Explorer
Dimension series	53000



Dimensions

d	44.45 mm	Bore diameter
D	95.25 mm	Outside diameter
T	30.958 mm	Total width
d_1	≈ 69.39 mm	Shoulder diameter of inner ring
B	28.3 mm	Width of inner ring
C	20.638 mm	Width of outer ring
$r_{1,2}$	min. 2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2.3 mm	Chamfer dimension of outer ring
a	30.006 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 54.5 mm	Diameter of shaft abutment
D_a	min. 72 mm	Diameter of housing abutment
D_a	max. 86 mm	Diameter of housing abutment
D_b	min. 89 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 10 mm	Minimum width of space required in housing on small side face
r_a	max. 2 mm	Radius of shaft fillet

r_b	max. 2.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	108 kN
Basic static load rating	C_0	96.5 kN
Fatigue load limit	P_u	11.4 kN
Reference speed		5 300 r/min
Limiting speed		7 000 r/min
Limiting value	e	0.75
Calculation factor	Y	0.8
Calculation factor	Y_0	0.45

Mass

Mass	0.93 kg

331138 AG

Four-row tapered roller bearing

Four-row tapered roller bearings can accommodate combined heavy radial and axial loads at low to moderate speeds. They are used almost exclusively in work roll applications such as rolling mills. SKF manufactures four-row tapered roller bearings in TQO and TQI designs, in many variants and with different features.

- Very high radial load carrying capacity
- Accommodate axial loads in both directions
- Axial space-saving solution for roll necks
- Low friction
- Long service life

Overview

Dimensions

Bore diameter	5.5 in
Outside diameter	7.875 in
Width, inner ring	6.187 in
Width, outer ring	6.313 in
Width, total	6.313 in

Performance

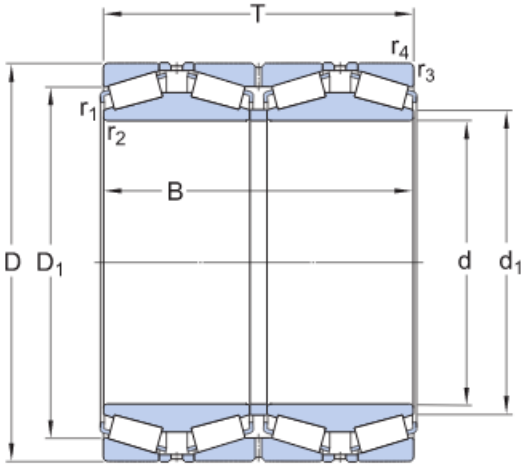
Basic dynamic load rating	192 886 lbf
Basic static load rating	467 603 lbf

Properties

Arrangement of contact angle (double-row bearing)	Not applicable
Bearing part	Complete bearing
Bore type	Cylindrical with helical groove
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Number of rows	4
Relubrication feature	With
Sealing	Without

Technical Specification

Design variant/feature	TQO/GWI
Bore type	Cylindrical with helical groove



Dimensions

d	5.5 in	Bore diameter
D	7.875 in	Outside diameter
B	6.187 in	Total bearing width over inner rings
T	6.313 in	Total bearing width over outer rings
d_1	≈ 6.142 in	Abutment diameter shaft
D_1	≈ 7.126 in	Abutment diameter housing
$r_{1,2}$	min. 0.031 in	Chamfer dimension inner ring
$r_{3,4}$	min. 0.13 in	Outer ring radius (chamfer)

Calculation data

Basic dynamic load rating	C	192 886 lbf
Basic static load rating	C_0	467 603 lbf
Fatigue load limit	P_u	45 861 lbf
Comparative radial load rating	C_F	56 202 lbf
Comparative axial load rating	C_{Fa}	9 307 lbf
Thrust factor	K	1.74
Limiting value	e	0.33
Calculation factor	Y_1	2
Calculation factor	Y_2	3
Calculation factor	Y_0	2

Mass

331945

Double row tapered roller bearing

SKF double row tapered roller bearings are available in many designs and variants, such as double row tapered roller bearings in TDI and TDO designs, and matched single row tapered roller bearings. Depending on their design, the bearings can accommodate heavy radial loads, axial loads in both directions and have a high degree of stiffness.

- High radial load carrying capacity
- Accommodate axial loads in both directions (except for tandem arrangements)
- High stiffness
- Low friction
- Long service life

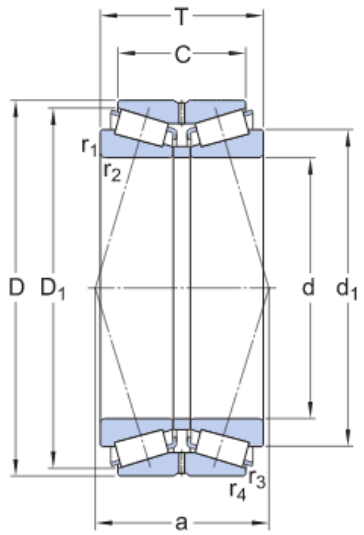
Overview

Properties

Arrangement of contact angle (double-row bearing)	Back-to-back (O)
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Number of rows	2
Relubrication feature	Without
Sealing	Without

Technical Specification

Design variant/feature	TDO/D



Dimensions

d	9 in	Bore diameter
D	19.25 in	Outside diameter
T	10 in	Total width
C	6 in	Width of outer ring
d_1	≈ 9.961 in	Diameter of shaft abutment
d_1	≈ 15.748 in	Diameter of shaft abutment
D_1	≈ 0 in	Diameter of housing abutment
D_1	≈ 17.953 in	Diameter of housing abutment
$r_{1,2}$	min. 0.252 in	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.059 in	Chamfer dimension of outer ring
$r_{3,4}$	min. 0.059 in	Chamfer dimension of outer ring
a	12.851 in	Distance between pressure points

Calculation data

Basic dynamic load rating	C	706 575 lbf
Basic static load rating	C_0	1 011,640 lbf
Fatigue load limit	P_u	87 675 lbf
Limiting value	e	0.94
Calculation factor	Y_1	0.72
Calculation factor	Y_2	1.07
Calculation factor	Y_0	0.7
Comparative radial load rating	C_F	165 235 lbf
Comparative axial load rating	C_{Fa}	150 397 lbf
Thrust factor	K	0.62

Mass

Mass	431.054 lb

A 4059/A 4138

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	0.59 in
Outside diameter	1.377 in
Width, inner ring	0.433 in
Width, outer ring	0.344 in
Width, total	0.433 in

Performance

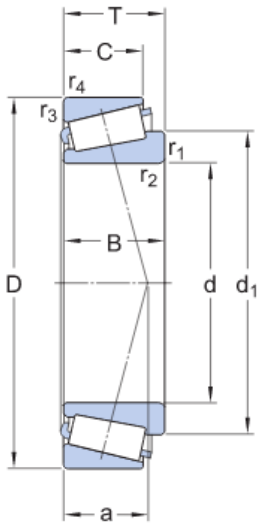
Basic dynamic load rating	3 709 lbf
Basic static load rating	2 967 lbf
Limiting speed	22 000 r/min
Reference speed	17 000 r/min
SKF performance class	SKF Explorer

Properties

Arrangement of contact angle (double-row bearing)	Not applicable
Bearing part	Complete bearing
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Number of rows	1
Relubrication feature	Without
Sealing	Without

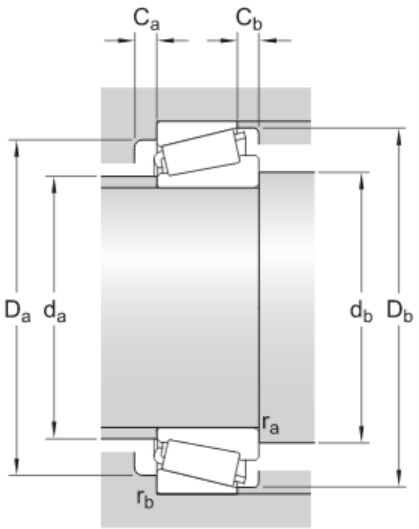
Technical Specification

SKF performance class	SKF Explorer
Dimension series	A 4000



Dimensions

d	0.59 in	Bore diameter
D	1.377 in	Outside diameter
T	0.433 in	Total width
d_1	≈ 0.996 in	Shoulder diameter of inner ring
B	0.433 in	Width of inner ring
C	0.344 in	Width of outer ring
$r_{1,2}$	min. 0.031 in	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.051 in	Chamfer dimension of outer ring
a	0.318 in	Distance side face to pressure point



Abutment dimensions

d_a	max. 0.787 in	Diameter of shaft abutment
d_b	min. 0.807 in	Diameter of shaft abutment
D_a	min. 1.102 in	Diameter of housing abutment
D_a	max. 1.142 in	Diameter of housing abutment
D_b	min. 1.22 in	Diameter of housing abutment
C_a	min. 0.079 in	Minimum width of space required in housing on large side face
C_b	min. 0.079 in	Minimum width of space required in housing on small side face
r_a	max. 0.031 in	Radius of shaft fillet

r_b	max. 0.051 in	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	3 709 lbf
Basic static load rating	C_0	2 967 lbf
Fatigue load limit	P_u	290 lbf
Reference speed		17 000 r/min
Limiting speed		22 000 r/min
Limiting value	e	0.46
Calculation factor	Y	1.3
Calculation factor	Y_0	0.7

Mass

Mass	0.113 lb

HM 88542/510

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	31.75 mm
Outside diameter	73.025 mm
Width, total	29.37 mm
Width, inner ring	27.783 mm
Width, outer ring	23.02 mm
Contact angle	20 °

Performance

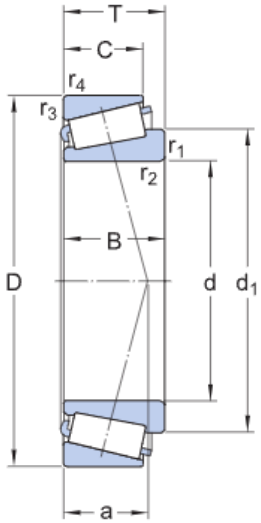
Basic dynamic load rating	86.5 kN
Basic static load rating	95 kN
Reference speed	7 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

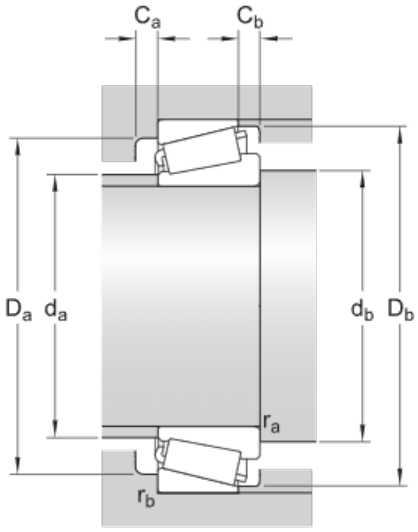
Technical Specification

SKF performance class	SKF Explorer
Dimension series	HM 88500



Dimensions

d	31.75 mm	Bore diameter
D	73.025 mm	Outside diameter
T	29.37 mm	Total width
d_1	≈ 56.9 mm	Shoulder diameter of inner ring
B	27.783 mm	Width of inner ring
C	23.02 mm	Width of outer ring
$r_{1,2}$	min. 1.2 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	23.276 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 42 mm	Diameter of shaft abutment
d_b	min. 39.5 mm	Diameter of shaft abutment
D_a	min. 55 mm	Diameter of housing abutment
D_a	max. 62 mm	Diameter of housing abutment
D_b	min. 69 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 1.2 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	86.5 kN
Basic static load rating	C_0	95 kN
Fatigue load limit	P_u	10.4 kN
Reference speed		7 500 r/min
Limiting speed		9 000 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.62 kg

HM 88649/610

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	34.925 mm
Outside diameter	72.233 mm
Width, total	25.4 mm
Width, inner ring	25.4 mm
Width, outer ring	19.842 mm
Contact angle	20 °

Performance

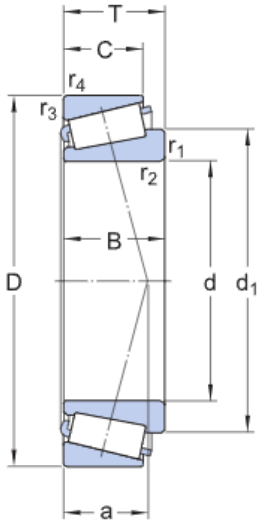
Basic dynamic load rating	83 kN
Basic static load rating	90 kN
Reference speed	7 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

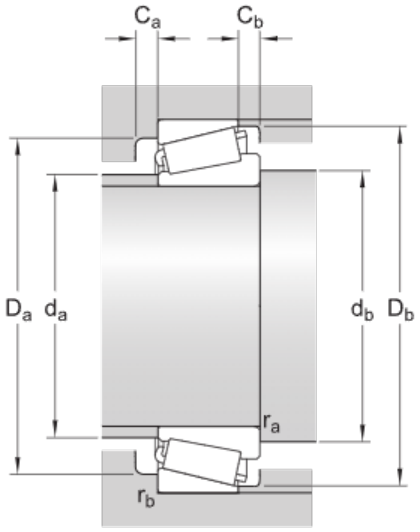
Technical Specification

SKF performance class	SKF Explorer
Dimension series	HM 88600



Dimensions

d	34.925 mm	Bore diameter
D	72.233 mm	Outside diameter
T	25.4 mm	Total width
d_1	≈ 56.6 mm	Shoulder diameter of inner ring
B	25.4 mm	Width of inner ring
C	19.842 mm	Width of outer ring
$r_{1,2}$	min. 2.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2.3 mm	Chamfer dimension of outer ring
a	20.367 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 42 mm	Diameter of shaft abutment
d_b	min. 45 mm	Diameter of shaft abutment
D_a	min. 57 mm	Diameter of housing abutment
D_a	max. 63.5 mm	Diameter of housing abutment
D_b	min. 68 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 5.5 mm	Minimum width of space required in housing on small side face
r_a	max. 2.3 mm	Radius of shaft fillet

r_b	max. 2.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	83 kN
Basic static load rating	C_0	90 kN
Fatigue load limit	P_u	10 kN
Reference speed		7 500 r/min
Limiting speed		9 000 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.5 kg

HM 89446/410

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	34.925 mm
Outside diameter	76.2 mm
Width, total	29.37 mm
Width, inner ring	28.575 mm
Width, outer ring	23.02 mm
Contact angle	20 °

Performance

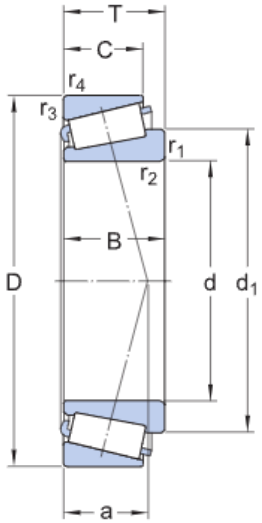
Basic dynamic load rating	95.2 kN
Basic static load rating	106 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

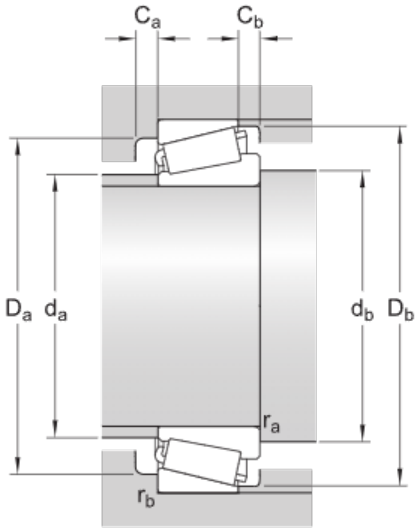
Technical Specification

SKF performance class	SKF Explorer
Dimension series	HM 89400



Dimensions

d	34.925 mm	Bore diameter
D	76.2 mm	Outside diameter
T	29.37 mm	Total width
d_1	≈ 59.3 mm	Shoulder diameter of inner ring
B	28.575 mm	Width of inner ring
C	23.02 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	23.527 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 44 mm	Diameter of shaft abutment
d_b	min. 47.5 mm	Diameter of shaft abutment
D_a	min. 58 mm	Diameter of housing abutment
D_a	max. 65.5 mm	Diameter of housing abutment
D_b	min. 72 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	95.2 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.66 kg

HM 89446/410

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	34.925 mm
Outside diameter	76.2 mm
Width, total	29.37 mm
Width, inner ring	28.575 mm
Width, outer ring	23.02 mm
Contact angle	20 °

Performance

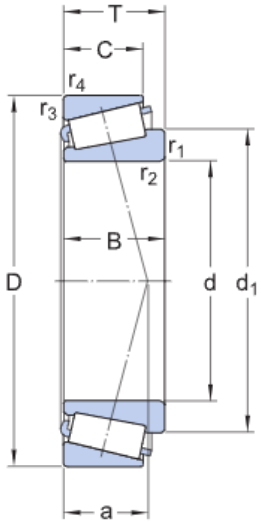
Basic dynamic load rating	95.2 kN
Basic static load rating	106 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

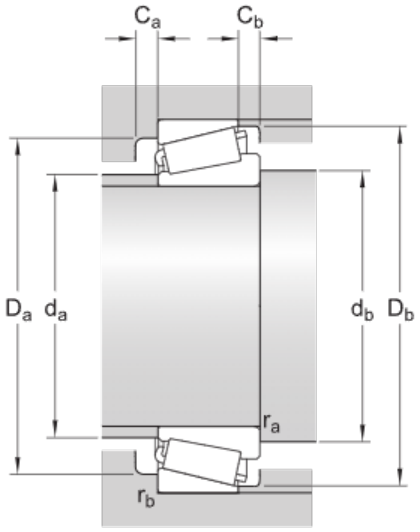
Technical Specification

SKF performance class	SKF Explorer
Dimension series	HM 89400



Dimensions

d	34.925 mm	Bore diameter
D	76.2 mm	Outside diameter
T	29.37 mm	Total width
d_1	≈ 59.3 mm	Shoulder diameter of inner ring
B	28.575 mm	Width of inner ring
C	23.02 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	23.527 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 44 mm	Diameter of shaft abutment
d_b	min. 47.5 mm	Diameter of shaft abutment
D_a	min. 58 mm	Diameter of housing abutment
D_a	max. 65.5 mm	Diameter of housing abutment
D_b	min. 72 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	95.2 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.66 kg

HM 89449/410

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	36.512 mm
Outside diameter	76.2 mm
Width, total	29.37 mm
Width, inner ring	28.575 mm
Width, outer ring	23.02 mm
Contact angle	20 °

Performance

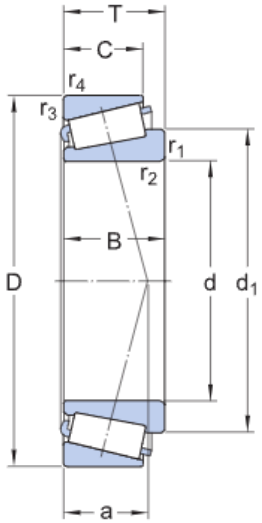
Basic dynamic load rating	95.2 kN
Basic static load rating	106 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

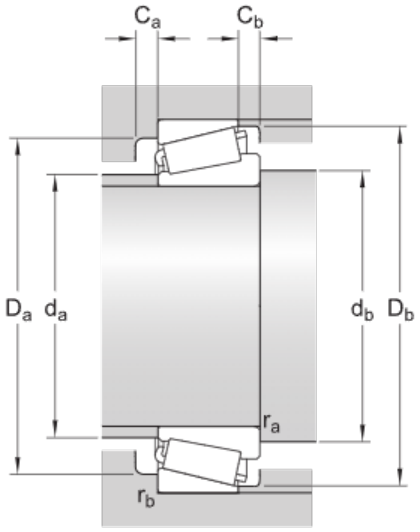
Technical Specification

SKF performance class	SKF Explorer
Dimension series	HM 89400



Dimensions

d	36.512 mm	Bore diameter
D	76.2 mm	Outside diameter
T	29.37 mm	Total width
d_1	≈ 59.3 mm	Shoulder diameter of inner ring
B	28.575 mm	Width of inner ring
C	23.02 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	23.527 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 44 mm	Diameter of shaft abutment
d_b	min. 49 mm	Diameter of shaft abutment
D_a	min. 58 mm	Diameter of housing abutment
D_a	max. 65.5 mm	Diameter of housing abutment
D_b	min. 72 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	95.2 kN
Basic static load rating	C_0	106 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.64 kg

HM 801346 X/310

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	38.1 mm
Outside diameter	82.55 mm
Width, total	29.37 mm
Width, inner ring	28.575 mm
Width, outer ring	23.02 mm
Contact angle	20 °

Performance

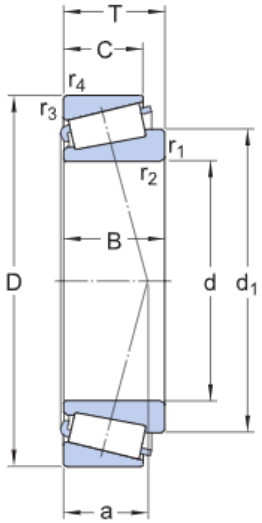
Basic dynamic load rating	106 kN
Basic static load rating	118 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

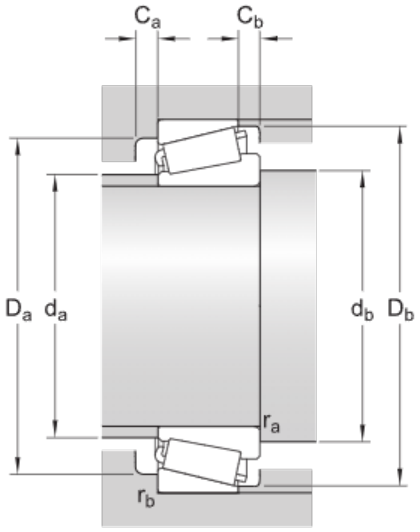
Technical Specification

SKF performance class	SKF Explorer
Dimension series	HM 801300



Dimensions

d	38.1 mm	Bore diameter
D	82.55 mm	Outside diameter
T	29.37 mm	Total width
d_1	≈ 64.15 mm	Shoulder diameter of inner ring
B	28.575 mm	Width of inner ring
C	23.02 mm	Width of outer ring
$r_{1,2}$	min. 2.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	24.155 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 49 mm	Diameter of shaft abutment
d_b	min. 48.5 mm	Diameter of shaft abutment
D_a	min. 64 mm	Diameter of housing abutment
D_a	max. 71.5 mm	Diameter of housing abutment
D_b	min. 78 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 2.3 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C_0	118 kN
Fatigue load limit	P_u	13.4 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.77 kg

HM 803146/110

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	41.275 mm
Outside diameter	88.9 mm
Width, total	30.162 mm
Width, inner ring	29.37 mm
Width, outer ring	23.02 mm
Contact angle	20 °

Performance

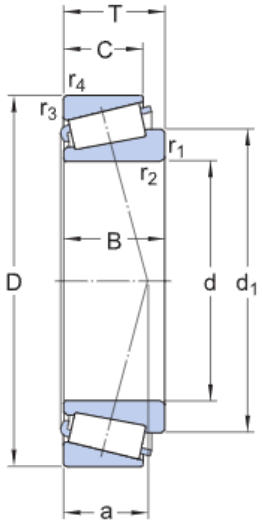
Basic dynamic load rating	116 kN
Basic static load rating	127 kN
Reference speed	6 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

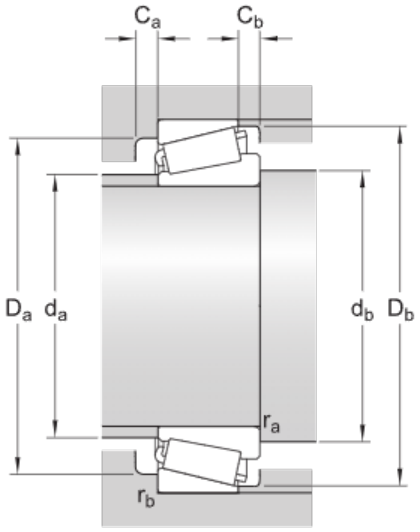
Technical Specification

SKF performance class	SKF Explorer
Dimension series	HM 803100



Dimensions

d	41.275 mm	Bore diameter
D	88.9 mm	Outside diameter
T	30.162 mm	Total width
d_1	≈ 69 mm	Shoulder diameter of inner ring
B	29.37 mm	Width of inner ring
C	23.02 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	25.497 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 54 mm	Diameter of shaft abutment
D_a	min. 70 mm	Diameter of housing abutment
D_a	max. 77.5 mm	Diameter of housing abutment
D_b	min. 84 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 7 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	116 kN
Basic static load rating	C_0	127 kN
Fatigue load limit	P_u	14.6 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.91 kg

HM 803149/110

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	44.45 mm
Outside diameter	88.9 mm
Width, total	30.162 mm
Width, inner ring	29.37 mm
Width, outer ring	23.02 mm
Contact angle	20 °

Performance

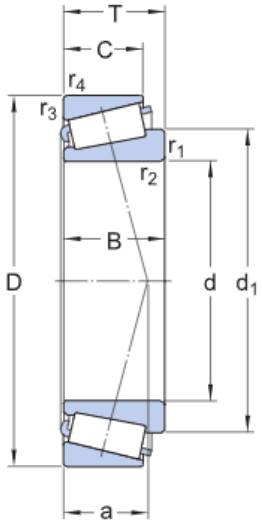
Basic dynamic load rating	116 kN
Basic static load rating	127 kN
Reference speed	6 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

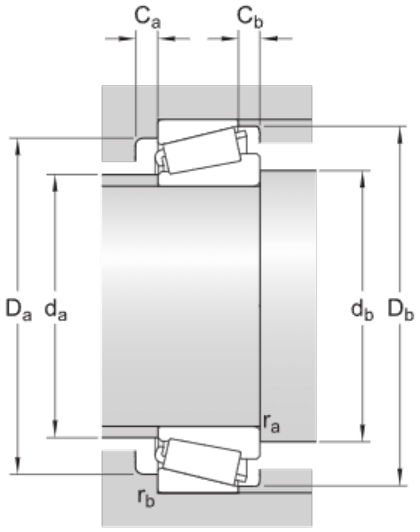
Technical Specification

SKF performance class	SKF Explorer
Dimension series	HM 803000



Dimensions

d	44.45 mm	Bore diameter
D	88.9 mm	Outside diameter
T	30.162 mm	Total width
d_1	≈ 69 mm	Shoulder diameter of inner ring
B	29.37 mm	Width of inner ring
C	23.02 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	25.497 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 57.5 mm	Diameter of shaft abutment
D_a	min. 70 mm	Diameter of housing abutment
D_a	max. 77.5 mm	Diameter of housing abutment
D_b	min. 84 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 7 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	116 kN
Basic static load rating	C_0	127 kN
Fatigue load limit	P_u	14.6 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.86 kg

JL 69349/310

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	38 mm
Outside diameter	63 mm
Width, total	17 mm
Width, inner ring	17 mm
Width, outer ring	13.5 mm
Contact angle	15.5 °

Performance

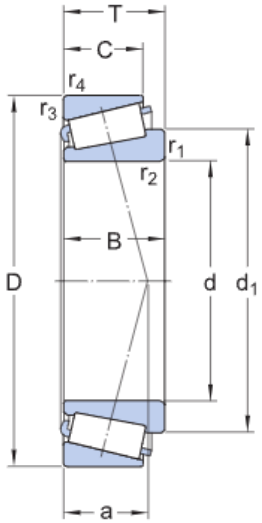
Basic dynamic load rating	45.7 kN
Basic static load rating	52 kN
Reference speed	8 500 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

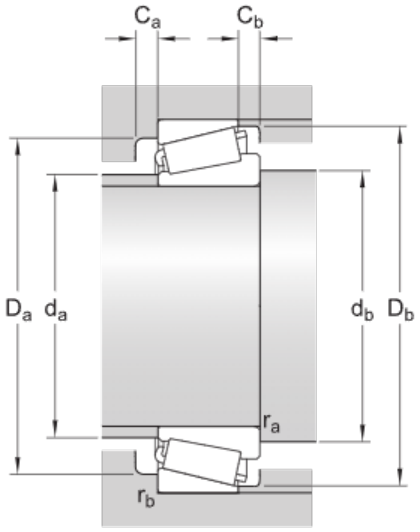
Technical Specification

SKF performance class	SKF Explorer
Dimension series	L 69300



Dimensions

d	38 mm	Bore diameter
D	63 mm	Outside diameter
T	17 mm	Total width
d_1	≈ 52.2 mm	Shoulder diameter of inner ring
B	17 mm	Width of inner ring
C	13.5 mm	Width of outer ring
$r_{1,2}$	min. 3.6 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	14.3 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 44 mm	Diameter of shaft abutment
d_b	min. 50.5 mm	Diameter of shaft abutment
D_a	min. 55 mm	Diameter of housing abutment
D_a	max. 56 mm	Diameter of housing abutment
D_b	min. 60 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.6 mm	Radius of shaft fillet

r_b	max. 1.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	45.7 kN
Basic static load rating	C_0	52 kN
Fatigue load limit	P_u	5.4 kN
Reference speed		8 500 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.2 kg

JL 69349 A/310

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	38 mm
Outside diameter	63 mm
Width, total	17 mm
Width, inner ring	17 mm
Width, outer ring	13.5 mm
Contact angle	15.5 °

Performance

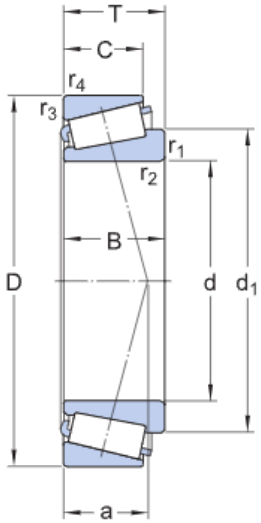
Basic dynamic load rating	45.7 kN
Basic static load rating	52 kN
Reference speed	8 500 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

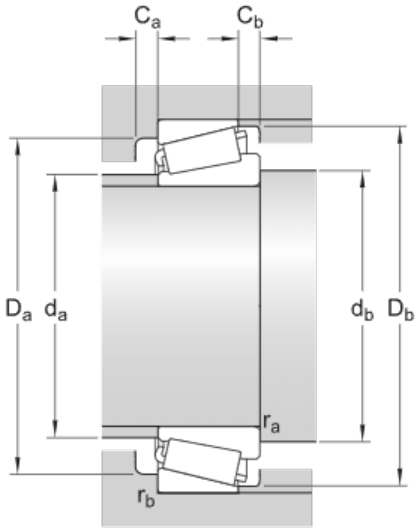
Technical Specification

SKF performance class	SKF Explorer
Dimension series	L 69300



Dimensions

d	38 mm	Bore diameter
D	63 mm	Outside diameter
T	17 mm	Total width
d_1	≈ 52.2 mm	Shoulder diameter of inner ring
B	17 mm	Width of inner ring
C	13.5 mm	Width of outer ring
$r_{1,2}$	min. 1.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	14.279 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 44 mm	Diameter of shaft abutment
d_b	min. 46 mm	Diameter of shaft abutment
D_a	min. 55 mm	Diameter of housing abutment
D_a	max. 56 mm	Diameter of housing abutment
D_b	min. 60 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.3 mm	Radius of shaft fillet

r_b	max. 1.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	45.7 kN
Basic static load rating	C_0	52 kN
Fatigue load limit	P_u	5.4 kN
Reference speed		8 500 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.21 kg

JL 69349 X/310

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	38 mm
Outside diameter	63 mm
Width, total	17 mm
Width, inner ring	17 mm
Width, outer ring	13.5 mm
Contact angle	15.5 °

Performance

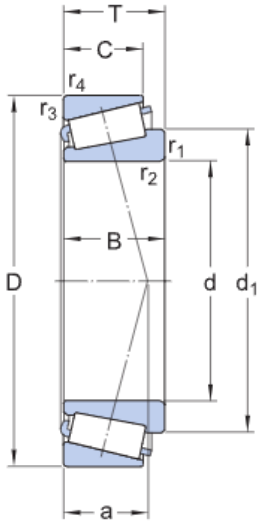
Basic dynamic load rating	45.7 kN
Basic static load rating	52 kN
Reference speed	8 500 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

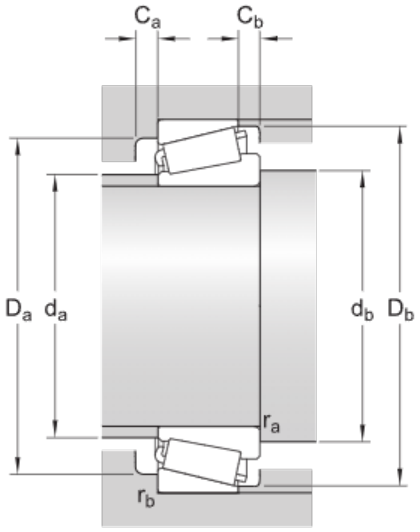
Technical Specification

SKF performance class	SKF Explorer
Dimension series	L 69300



Dimensions

d	38 mm	Bore diameter
D	63 mm	Outside diameter
T	17 mm	Total width
d_1	≈ 52.2 mm	Shoulder diameter of inner ring
B	17 mm	Width of inner ring
C	13.5 mm	Width of outer ring
$r_{1,2}$	min. 2.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	14.279 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 44 mm	Diameter of shaft abutment
d_b	min. 48 mm	Diameter of shaft abutment
D_a	min. 55 mm	Diameter of housing abutment
D_a	max. 56 mm	Diameter of housing abutment
D_b	min. 60 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 2.3 mm	Radius of shaft fillet

r_b	max. 1.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	45.7 kN
Basic static load rating	C_0	52 kN
Fatigue load limit	P_u	5.4 kN
Reference speed		8 500 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.21 kg

JLM 104945/910

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	82 mm
Width, total	27.7 mm
Width, inner ring	27.7 mm
Width, outer ring	17 mm
Contact angle	11.5 °

Performance

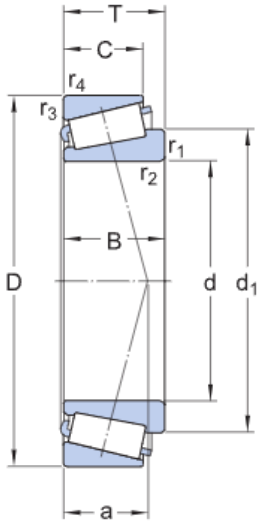
Basic dynamic load rating	88.9 kN
Basic static load rating	100 kN
Reference speed	6 300 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

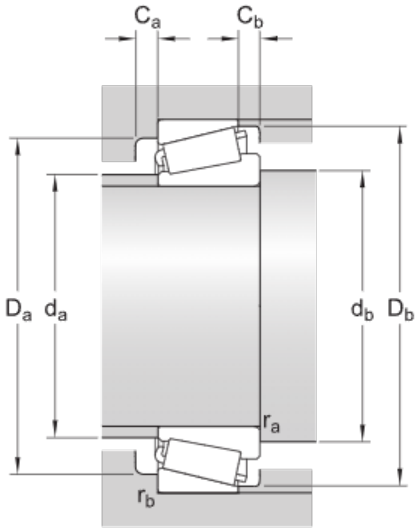
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 104900



Dimensions

d	50 mm	Bore diameter
D	82 mm	Outside diameter
T	21.501 mm	Total width
d_1	≈ 65.2 mm	Shoulder diameter of inner ring
B	27.7 mm	Width of inner ring
C	17 mm	Width of outer ring
$r_{1,2}$	min. 3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.5 mm	Chamfer dimension of outer ring
a	15.754 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 57 mm	Diameter of shaft abutment
d_b	min. 61.5 mm	Diameter of shaft abutment
D_a	min. 74 mm	Diameter of housing abutment
D_a	max. 76 mm	Diameter of housing abutment
D_b	min. 78 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3 mm	Radius of shaft fillet

r_b	max. 0.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	88.9 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	11 kN
Reference speed		6 300 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.3
Calculation factor	Y	2
Calculation factor	Y_0	1.1

Mass

Mass	0.46 kg

JM 205149/110 A

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width, total	28 mm
Width, inner ring	28 mm
Width, outer ring	23 mm
Contact angle	12.367 °

Performance

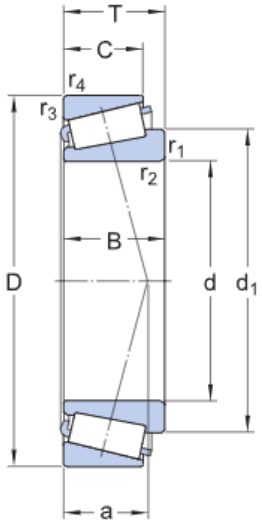
Basic dynamic load rating	130 kN
Basic static load rating	140 kN
Reference speed	6 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

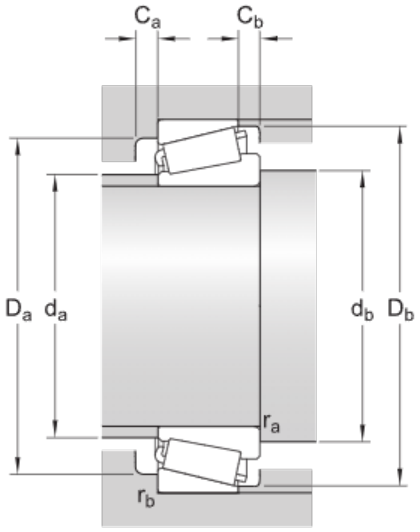
Technical Specification

SKF performance class	SKF Explorer
Dimension series	M 205100



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
T	28 mm	Total width
d_1	≈ 68.8 mm	Shoulder diameter of inner ring
B	28 mm	Width of inner ring
C	23 mm	Width of outer ring
$r_{1,2}$	min. 3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.8 mm	Chamfer dimension of outer ring
a	20.024 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 58 mm	Diameter of shaft abutment
d_b	min. 62 mm	Diameter of shaft abutment
D_a	min. 78 mm	Diameter of housing abutment
D_a	max. 83.5 mm	Diameter of housing abutment
D_b	min. 85 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 5 mm	Minimum width of space required in housing on small side face
r_a	max. 3 mm	Radius of shaft fillet

r_b	max. 0.8 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	130 kN
Basic static load rating	C_0	140 kN
Fatigue load limit	P_u	16 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.75 kg

JM 205149/110

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width, total	28 mm
Width, inner ring	28 mm
Width, outer ring	23 mm
Contact angle	12.367 °

Performance

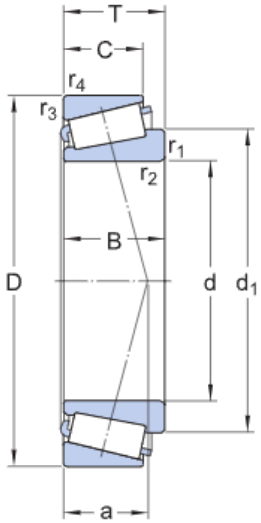
Basic dynamic load rating	130 kN
Basic static load rating	140 kN
Reference speed	6 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

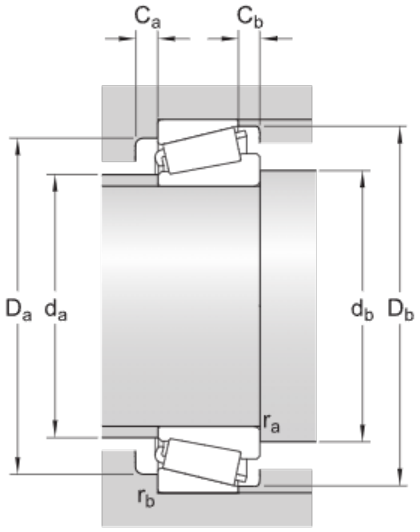
Technical Specification

SKF performance class	SKF Explorer
Dimension series	M 205100



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
T	28 mm	Total width
d_1	≈ 68.8 mm	Shoulder diameter of inner ring
B	28 mm	Width of inner ring
C	23 mm	Width of outer ring
$r_{1,2}$	min. 3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2.5 mm	Chamfer dimension of outer ring
a	20 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 58 mm	Diameter of shaft abutment
d_b	min. 62 mm	Diameter of shaft abutment
D_a	min. 78 mm	Diameter of housing abutment
D_a	max. 80 mm	Diameter of housing abutment
D_b	min. 85 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 5 mm	Minimum width of space required in housing on small side face
r_a	max. 3 mm	Radius of shaft fillet

r_b	max. 2.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	130 kN
Basic static load rating	C_0	140 kN
Fatigue load limit	P_u	16 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.75 kg

L 68149/111

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	34.987 mm
Outside diameter	59.975 mm
Width, total	16.764 mm
Width, inner ring	16.764 mm
Width, outer ring	11.938 mm
Contact angle	15.5 °

Performance

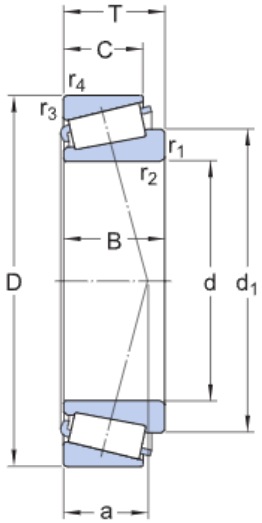
Basic dynamic load rating	40.6 kN
Basic static load rating	44 kN
Reference speed	9 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

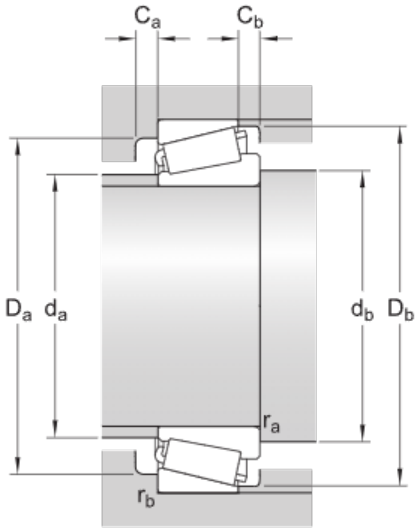
Technical Specification

SKF performance class	SKF Explorer
Dimension series	L 68100



Dimensions

d	34.987 mm	Bore diameter
D	59.975 mm	Outside diameter
T	15.875 mm	Total width
d_1	≈ 48.4 mm	Shoulder diameter of inner ring
B	16.764 mm	Width of inner ring
C	11.938 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	13.416 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 41 mm	Diameter of shaft abutment
d_b	min. 47 mm	Diameter of shaft abutment
D_a	min. 52 mm	Diameter of housing abutment
D_a	max. 53 mm	Diameter of housing abutment
D_b	min. 56 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b max. 1.3 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	40.6 kN
Basic static load rating	C_0	44 kN
Fatigue load limit	P_u	4.5 kN
Reference speed		9 000 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.18 kg

LM 11949/910

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	19.05 mm
Outside diameter	45.237 mm
Width, total	16.637 mm
Width, inner ring	16.637 mm
Width, outer ring	12.065 mm
Contact angle	11.333 °

Performance

Basic dynamic load rating	33.8 kN
Basic static load rating	27.5 kN
Reference speed	13 000 r/min
Limiting speed	16 000 r/min
SKF performance class	SKF Explorer

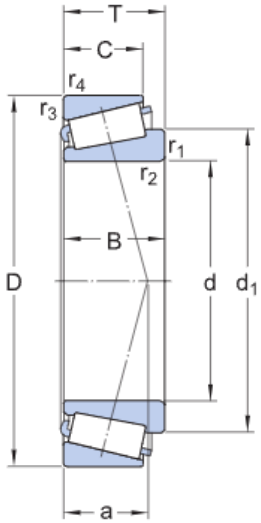
Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

Relubrication feature	Without

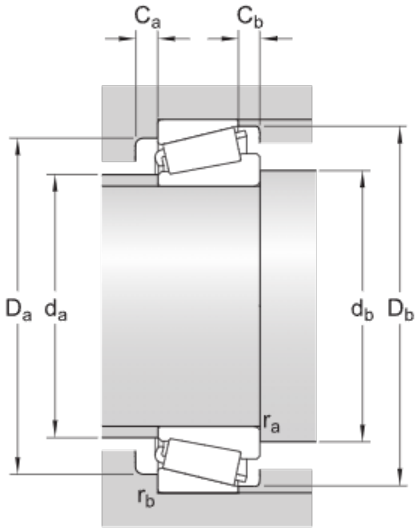
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 11900



Dimensions

d	19.05 mm	Bore diameter
D	45.237 mm	Outside diameter
T	15.494 mm	Total width
d_1	≈ 31.4 mm	Shoulder diameter of inner ring
B	16.637 mm	Width of inner ring
C	12.065 mm	Width of outer ring
$r_{1,2}$	min. 1.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	9.825 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 26 mm	Diameter of shaft abutment
d_b	min. 26 mm	Diameter of shaft abutment
D_a	min. 38 mm	Diameter of housing abutment
D_a	max. 39 mm	Diameter of housing abutment
D_b	min. 41 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3 mm	Minimum width of space required in housing on small side face
r_a	max. 1.3 mm	Radius of shaft fillet

r_b	max. 1.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	33.8 kN
Basic static load rating	C_0	27.5 kN
Fatigue load limit	P_u	2.9 kN
Reference speed		13 000 r/min
Limiting speed		16 000 r/min
Limiting value	e	0.3
Calculation factor	Y	2
Calculation factor	Y_0	1.1

Mass

Mass	0.12 kg

LM 29749/711

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	38.1 mm
Outside diameter	65.088 mm
Width, total	19.812 mm
Width, inner ring	18.288 mm
Width, outer ring	15.748 mm
Contact angle	12.5 °

Performance

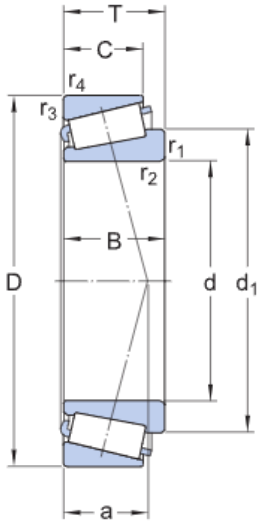
Basic dynamic load rating	53 kN
Basic static load rating	57 kN
Reference speed	8 000 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

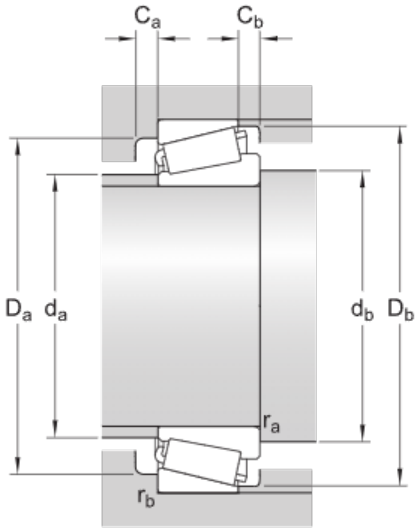
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 29700



Dimensions

d	38.1 mm	Bore diameter
D	65.088 mm	Outside diameter
T	19.812 mm	Total width
d_1	≈ 51.38 mm	Shoulder diameter of inner ring
B	18.288 mm	Width of inner ring
C	15.748 mm	Width of outer ring
$r_{1,2}$	min. 2.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	15.24 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 45 mm	Diameter of shaft abutment
d_b	min. 48 mm	Diameter of shaft abutment
D_a	min. 57 mm	Diameter of housing abutment
D_a	max. 58 mm	Diameter of housing abutment
D_b	min. 61 mm	Diameter of housing abutment
C_a	min. 2 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 2.3 mm	Radius of shaft fillet

r_b	max. 1.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	53 kN
Basic static load rating	C_0	57 kN
Fatigue load limit	P_u	6.1 kN
Reference speed		8 000 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	0.25 kg

LM 48548 A/510

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	34.925 mm
Outside diameter	65.088 mm
Width, total	18.288 mm
Width, inner ring	18.288 mm
Width, outer ring	13.97 mm
Contact angle	14.083 °

Performance

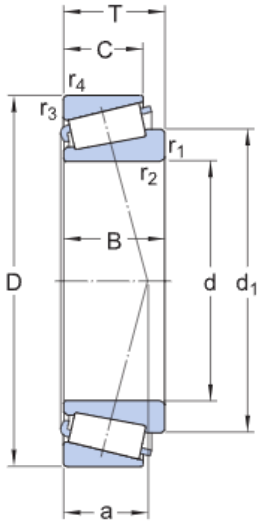
Basic dynamic load rating	58 kN
Basic static load rating	57 kN
Reference speed	8 500 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

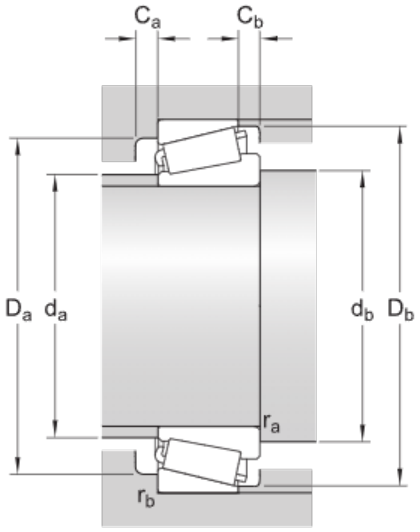
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 48500



Dimensions

d	34.925 mm	Bore diameter
D	65.088 mm	Outside diameter
T	18.034 mm	Total width
d_1	≈ 50 mm	Shoulder diameter of inner ring
B	18.288 mm	Width of inner ring
C	13.97 mm	Width of outer ring
$r_{1,2}$	min. 0.8 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	14.025 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 42 mm	Diameter of shaft abutment
d_b	min. 41.5 mm	Diameter of shaft abutment
D_a	min. 57 mm	Diameter of housing abutment
D_a	max. 58.5 mm	Diameter of housing abutment
D_b	min. 61 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 0.8 mm	Radius of shaft fillet

r_b	max. 1.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	58 kN
Basic static load rating	C_0	57 kN
Fatigue load limit	P_u	6.2 kN
Reference speed		8 500 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.37
Calculation factor	Y	1.6
Calculation factor	Y_0	0.9

Mass

Mass	0.26 kg

LM 102949/910

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45.242 mm
Outside diameter	73.431 mm
Width, total	19.812 mm
Width, inner ring	19.812 mm
Width, outer ring	15.748 mm
Contact angle	11.5 °

Performance

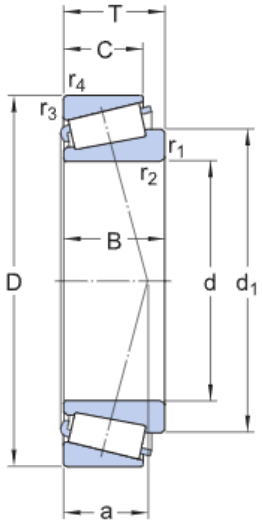
Basic dynamic load rating	66 kN
Basic static load rating	75 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

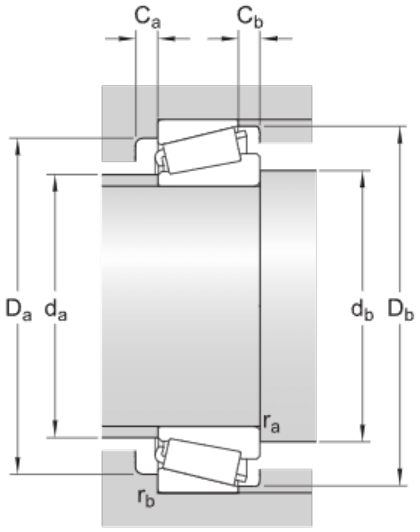
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 102900



Dimensions

d	45.242 mm	Bore diameter
D	73.431 mm	Outside diameter
T	19.558 mm	Total width
d_1	≈ 59.4 mm	Shoulder diameter of inner ring
B	19.812 mm	Width of inner ring
C	15.748 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.8 mm	Chamfer dimension of outer ring
a	14.727 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 52 mm	Diameter of shaft abutment
d_b	min. 57.5 mm	Diameter of shaft abutment
D_a	min. 66 mm	Diameter of housing abutment
D_a	max. 67.5 mm	Diameter of housing abutment
D_b	min. 70 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 0.8 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	66 kN
Basic static load rating	C_0	75 kN
Fatigue load limit	P_u	8.15 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.3
Calculation factor	Y	2
Calculation factor	Y_0	1.1

Mass

Mass	0.31 kg

LM 300849/811

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40.987 mm
Outside diameter	67.975 mm
Width, total	18 mm
Width, inner ring	18 mm
Width, outer ring	13.5 mm
Contact angle	13.083 °

Performance

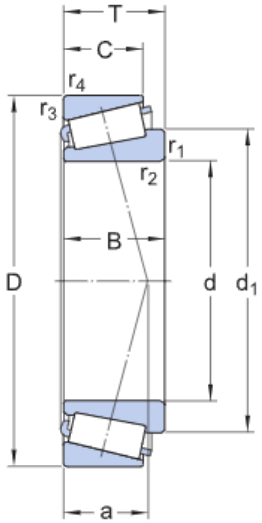
Basic dynamic load rating	53.6 kN
Basic static load rating	58.5 kN
Reference speed	8 000 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

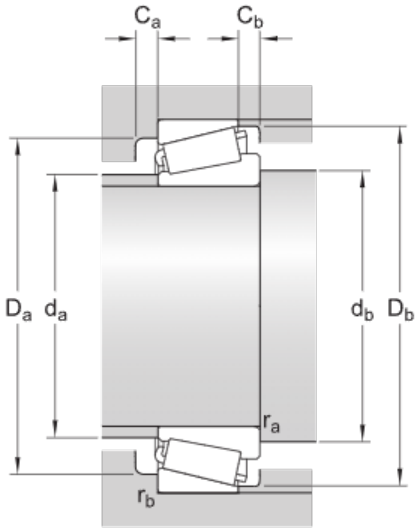
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 300800



Dimensions

d	40.987 mm	Bore diameter
D	67.975 mm	Outside diameter
T	17.5 mm	Total width
d_1	≈ 55.4 mm	Shoulder diameter of inner ring
B	18 mm	Width of inner ring
C	13.5 mm	Width of outer ring
$r_{1,2}$	min. 3.6 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	13.741 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 47 mm	Diameter of shaft abutment
d_b	min. 53.5 mm	Diameter of shaft abutment
D_a	min. 61 mm	Diameter of housing abutment
D_a	max. 61.5 mm	Diameter of housing abutment
D_b	min. 64 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 3.6 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	53.6 kN
Basic static load rating	C_0	58.5 kN
Fatigue load limit	P_u	6.3 kN
Reference speed		8 000 r/min
Limiting speed		9 500 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.24 kg

LM 501349/310

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	41.275 mm
Outside diameter	73.431 mm
Width, total	19.812 mm
Width, inner ring	19.812 mm
Width, outer ring	14.732 mm
Contact angle	14.917 °

Performance

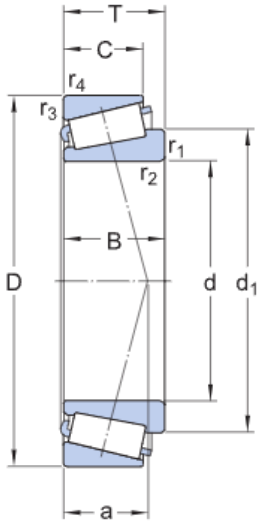
Basic dynamic load rating	67.6 kN
Basic static load rating	68 kN
Reference speed	7 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

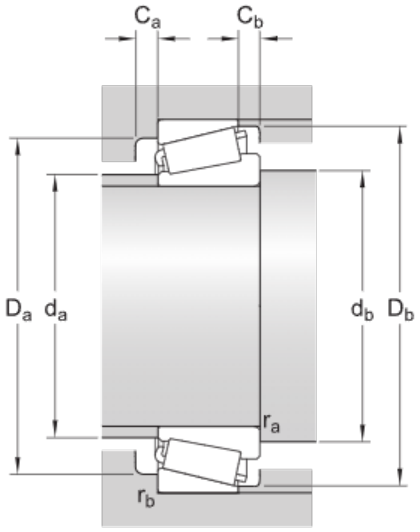
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 501300



Dimensions

d	41.275 mm	Bore diameter
D	73.431 mm	Outside diameter
T	19.558 mm	Total width
d_1	≈ 57.7 mm	Shoulder diameter of inner ring
B	19.812 mm	Width of inner ring
C	14.732 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.8 mm	Chamfer dimension of outer ring
a	15.94 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 48 mm	Diameter of shaft abutment
d_b	min. 53.5 mm	Diameter of shaft abutment
D_a	min. 64 mm	Diameter of housing abutment
D_a	max. 67.5 mm	Diameter of housing abutment
D_b	min. 69 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 0.8 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	67.6 kN
Basic static load rating	C_0	68 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		7 500 r/min
Limiting speed		9 000 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.34 kg

LM 501349/314

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	41.275 mm
Outside diameter	73.431 mm
Width, total	21.43 mm
Width, inner ring	19.812 mm
Width, outer ring	16.604 mm
Contact angle	14.917 °

Performance

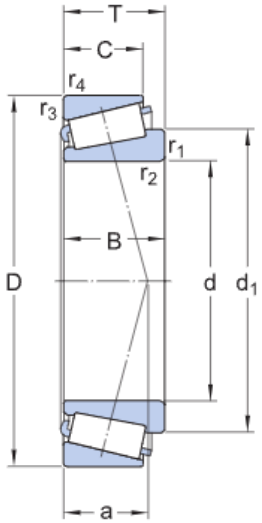
Basic dynamic load rating	67.6 kN
Basic static load rating	68 kN
Reference speed	7 500 r/min
Limiting speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

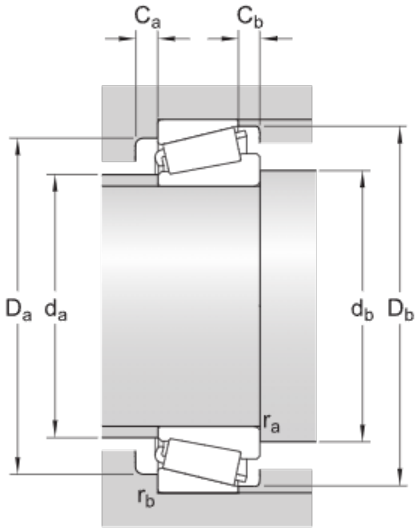
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 501300



Dimensions

d	41.275 mm	Bore diameter
D	73.431 mm	Outside diameter
T	21.43 mm	Total width
d_1	≈ 57.7 mm	Shoulder diameter of inner ring
B	19.812 mm	Width of inner ring
C	16.604 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.8 mm	Chamfer dimension of outer ring
a	17.812 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 48 mm	Diameter of shaft abutment
d_b	min. 53.5 mm	Diameter of shaft abutment
D_a	min. 63 mm	Diameter of housing abutment
D_a	max. 67.5 mm	Diameter of housing abutment
D_b	min. 69 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 0.8 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	67.6 kN
Basic static load rating	C_0	68 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		7 500 r/min
Limiting speed		9 000 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.36 kg

LM 503349/310

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45.987 mm
Outside diameter	74.975 mm
Width, total	18 mm
Width, inner ring	18 mm
Width, outer ring	14 mm
Contact angle	15 °

Performance

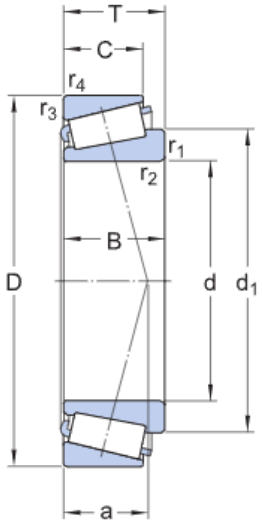
Basic dynamic load rating	62.1 kN
Basic static load rating	71 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

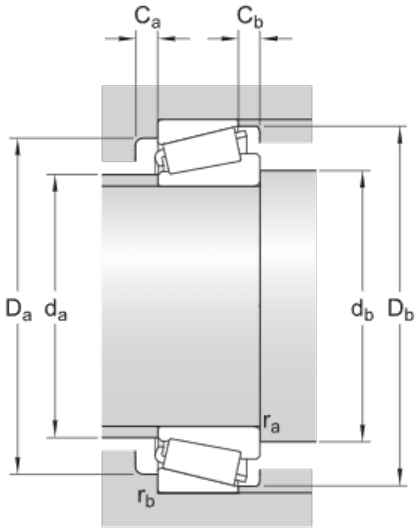
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 503300



Dimensions

d	45.987 mm	Bore diameter
D	74.975 mm	Outside diameter
T	18 mm	Total width
d_1	≈ 61 mm	Shoulder diameter of inner ring
B	18 mm	Width of inner ring
C	14 mm	Width of outer ring
$r_{1,2}$	min. 2.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.6 mm	Chamfer dimension of outer ring
a	15.786 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 53 mm	Diameter of shaft abutment
d_b	min. 56 mm	Diameter of shaft abutment
D_a	min. 67 mm	Diameter of housing abutment
D_a	max. 67 mm	Diameter of housing abutment
D_b	min. 71 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4 mm	Minimum width of space required in housing on small side face
r_a	max. 2.3 mm	Radius of shaft fillet

r_b	max. 1.6 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	62.1 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		8 500 r/min
Limiting value	e	0.4
Calculation factor	Y	1.5
Calculation factor	Y_0	0.8

Mass

Mass	0.3 kg

LM 603049/011

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45.242 mm
Outside diameter	77.788 mm
Width, total	19.842 mm
Width, inner ring	19.842 mm
Width, outer ring	15.08 mm
Contact angle	15.883 °

Performance

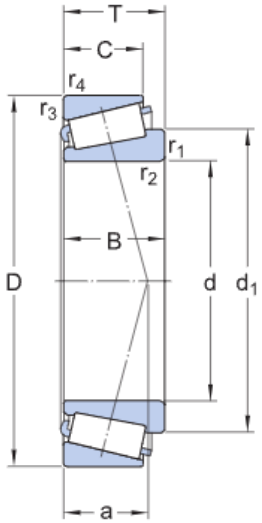
Basic dynamic load rating	66.8 kN
Basic static load rating	69.5 kN
Reference speed	7 000 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

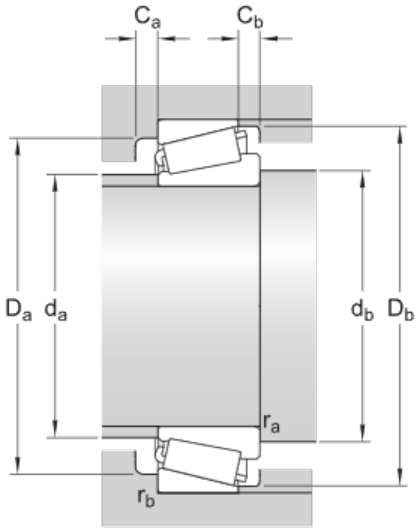
Technical Specification

SKF performance class	SKF Explorer
Dimension series	LM 603000



Dimensions

d	45.242 mm	Bore diameter
D	77.788 mm	Outside diameter
T	19.842 mm	Total width
d_1	≈ 62 mm	Shoulder diameter of inner ring
B	19.842 mm	Width of inner ring
C	15.08 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.8 mm	Chamfer dimension of outer ring
a	17.068 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 52 mm	Diameter of shaft abutment
d_b	min. 58 mm	Diameter of shaft abutment
D_a	min. 68 mm	Diameter of housing abutment
D_a	max. 71.5 mm	Diameter of housing abutment
D_b	min. 74 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 0.8 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	66.8 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		7 000 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.43
Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

Mass

Mass	0.37 kg

M 12649/610

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	21.43 mm
Outside diameter	50.005 mm
Width, total	18.288 mm
Width, inner ring	18.288 mm
Width, outer ring	13.97 mm
Contact angle	10.5 °

Performance

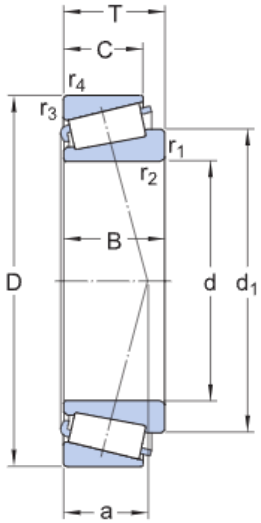
Basic dynamic load rating	45.4 kN
Basic static load rating	38 kN
Reference speed	12 000 r/min
Limiting speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

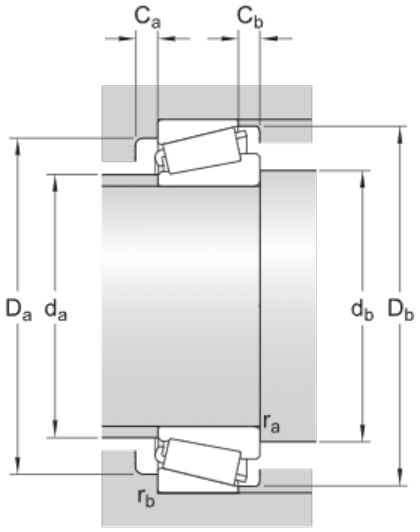
Technical Specification

SKF performance class	SKF Explorer
Dimension series	M 12600



Dimensions

d	21.43 mm	Bore diameter
D	50.005 mm	Outside diameter
T	17.526 mm	Total width
d_1	≈ 34.6 mm	Shoulder diameter of inner ring
B	18.288 mm	Width of inner ring
C	13.97 mm	Width of outer ring
$r_{1,2}$	min. 1.3 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.3 mm	Chamfer dimension of outer ring
a	10.745 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 28 mm	Diameter of shaft abutment
d_b	min. 28.5 mm	Diameter of shaft abutment
D_a	min. 43 mm	Diameter of housing abutment
D_a	max. 43.5 mm	Diameter of housing abutment
D_b	min. 46 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 3.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.3 mm	Radius of shaft fillet

r_b max. 1.3 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	45.4 kN
Basic static load rating	C_0	38 kN
Fatigue load limit	P_u	4.15 kN
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Limiting value	e	0.28
Calculation factor	Y	2.1
Calculation factor	Y_0	1.1

Mass

Mass	0.17 kg

M 84548/510

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	25.4 mm
Outside diameter	57.15 mm
Width, total	19.431 mm
Width, inner ring	19.431 mm
Width, outer ring	14.732 mm
Contact angle	20 °

Performance

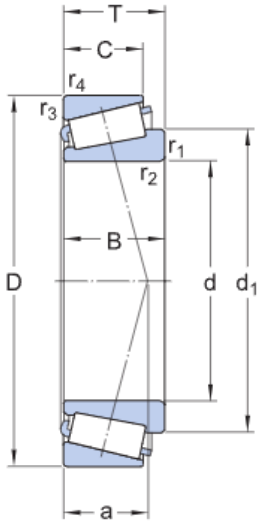
Basic dynamic load rating	48.8 kN
Basic static load rating	45 kN
Reference speed	10 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

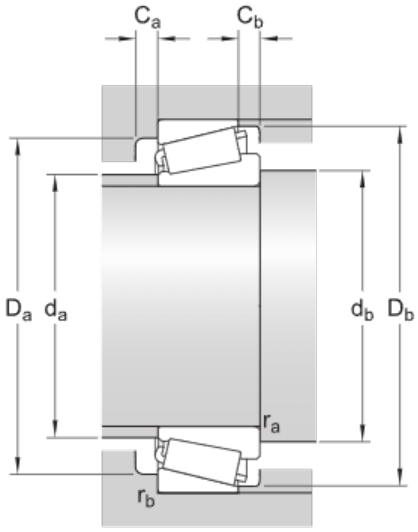
Technical Specification

SKF performance class	SKF Explorer
Dimension series	M 84500



Dimensions

d	25.4 mm	Bore diameter
D	57.15 mm	Outside diameter
T	19.431 mm	Total width
d_1	≈ 42.5 mm	Shoulder diameter of inner ring
B	19.431 mm	Width of inner ring
C	14.732 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	15.749 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 33 mm	Diameter of shaft abutment
d_b	min. 33.5 mm	Diameter of shaft abutment
D_a	min. 45 mm	Diameter of housing abutment
D_a	max. 50.5 mm	Diameter of housing abutment
D_b	min. 53 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	48.8 kN
Basic static load rating	C_0	45 kN
Fatigue load limit	P_u	5 kN
Reference speed		10 000 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.24 kg

M 86649/610

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30.162 mm
Outside diameter	64.292 mm
Width, total	21.433 mm
Width, inner ring	21.433 mm
Width, outer ring	16.67 mm
Contact angle	20 °

Performance

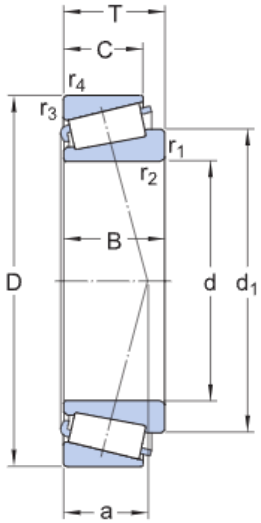
Basic dynamic load rating	60.4 kN
Basic static load rating	61 kN
Reference speed	8 500 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

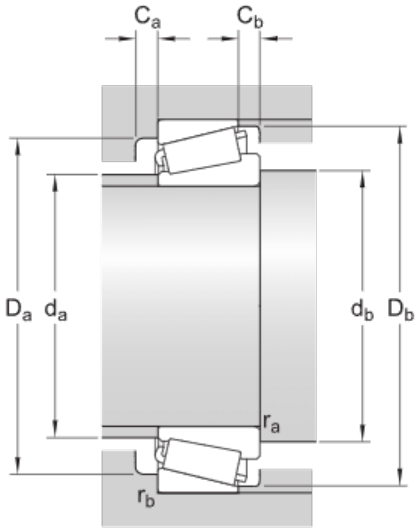
Technical Specification

SKF performance class	SKF Explorer
Dimension series	M 86600



Dimensions

d	30.162 mm	Bore diameter
D	64.292 mm	Outside diameter
T	21.433 mm	Total width
d_1	≈ 50.19 mm	Shoulder diameter of inner ring
B	21.433 mm	Width of inner ring
C	16.67 mm	Width of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.5 mm	Chamfer dimension of outer ring
a	17.621 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 38 mm	Diameter of shaft abutment
d_b	min. 38.5 mm	Diameter of shaft abutment
D_a	min. 51 mm	Diameter of housing abutment
D_a	max. 57.5 mm	Diameter of housing abutment
D_b	min. 60 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet

r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	60.4 kN
Basic static load rating	C_0	61 kN
Fatigue load limit	P_u	6.8 kN
Reference speed		8 500 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.34 kg

M 88043/010

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30.162 mm
Outside diameter	68.262 mm
Width, total	22.28 mm
Width, inner ring	22.28 mm
Width, outer ring	17.462 mm
Contact angle	20 °

Performance

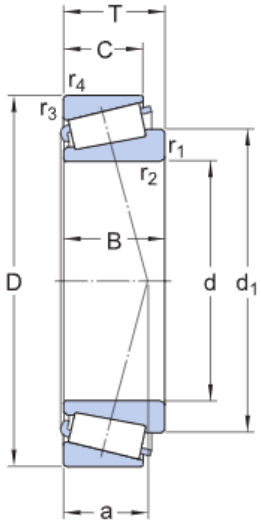
Basic dynamic load rating	67.1 kN
Basic static load rating	69.5 kN
Reference speed	8 000 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

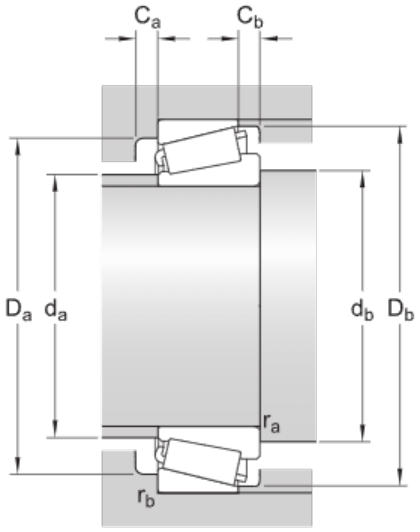
Technical Specification

SKF performance class	SKF Explorer
Dimension series	M 88000



Dimensions

d	30.162 mm	Bore diameter
D	68.262 mm	Outside diameter
T	22.225 mm	Total width
d_1	≈ 52.3 mm	Shoulder diameter of inner ring
B	22.28 mm	Width of inner ring
C	17.462 mm	Width of outer ring
$r_{1,2}$	min. 2.4 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1.6 mm	Chamfer dimension of outer ring
a	18.877 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 41 mm	Diameter of shaft abutment
d_b	min. 40 mm	Diameter of shaft abutment
D_a	min. 54 mm	Diameter of housing abutment
D_a	max. 61 mm	Diameter of housing abutment
D_b	min. 64 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 4.5 mm	Minimum width of space required in housing on small side face
r_a	max. 2.4 mm	Radius of shaft fillet

r_b	max. 1.6 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	67.1 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	7.8 kN
Reference speed		8 000 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.41 kg

M 802048/011

Single row tapered roller bearing, inch size

Single row tapered roller bearings, inch sizes, are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	41.275 mm
Outside diameter	82.55 mm
Width, total	26.543 mm
Width, inner ring	25.654 mm
Width, outer ring	20.193 mm
Contact angle	20 °

Performance

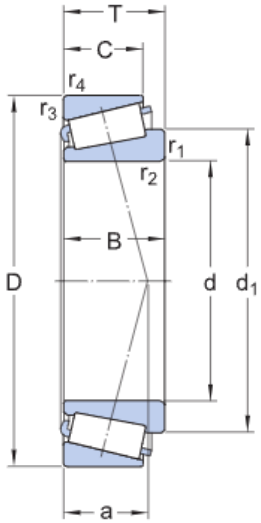
Basic dynamic load rating	91.2 kN
Basic static load rating	91.5 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

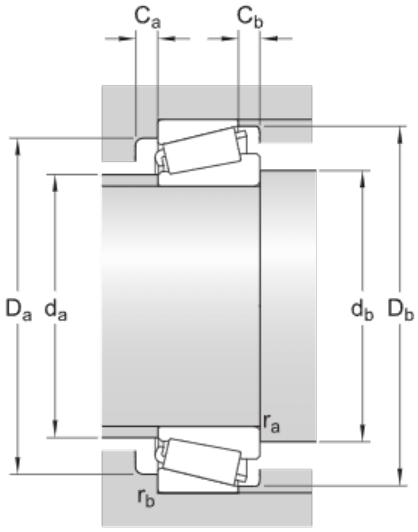
Technical Specification

SKF performance class	SKF Explorer
Dimension series	M 802000



Dimensions

d	41.275 mm	Bore diameter
D	82.55 mm	Outside diameter
T	26.543 mm	Total width
d_1	≈ 62.35 mm	Shoulder diameter of inner ring
B	25.654 mm	Width of inner ring
C	20.193 mm	Width of outer ring
$r_{1,2}$	min. 3.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3.3 mm	Chamfer dimension of outer ring
a	22.343 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 49 mm	Diameter of shaft abutment
d_b	min. 54 mm	Diameter of shaft abutment
D_a	min. 66 mm	Diameter of housing abutment
D_a	max. 71.5 mm	Diameter of housing abutment
D_b	min. 78 mm	Diameter of housing abutment
C_a	min. 4 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 3.5 mm	Radius of shaft fillet

r_b	max. 3.3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	91.2 kN
Basic static load rating	C_0	91.5 kN
Fatigue load limit	P_u	10.6 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

Mass

Mass	0.64 kg

T2ED 045

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	95 mm
Width, total	36 mm
Width, inner ring	35 mm
Width, outer ring	30 mm
Contact angle	12.15 °

Performance

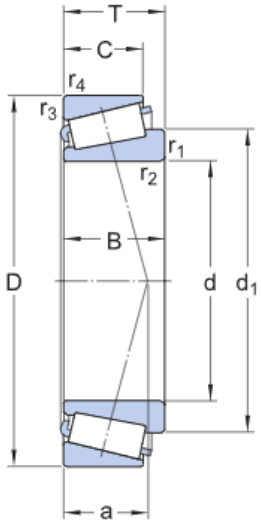
Basic dynamic load rating	182 kN
Basic static load rating	186 kN
Reference speed	6 000 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

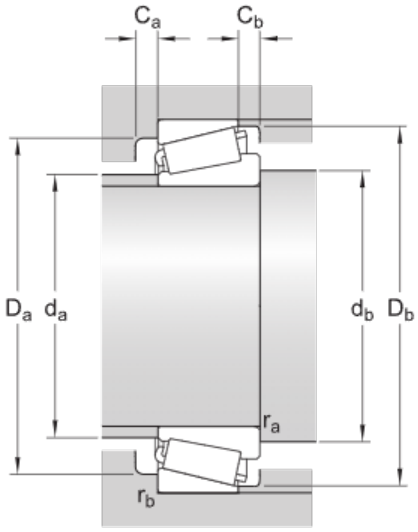
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2ED



Dimensions

d	45 mm	Bore diameter
D	95 mm	Outside diameter
T	36 mm	Total width
d_1	≈ 68.7 mm	Shoulder diameter of inner ring
B	35 mm	Width of inner ring
C	30 mm	Width of outer ring
$r_{1,2}$	min. 2.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2.5 mm	Chamfer dimension of outer ring
a	23.434 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 55 mm	Diameter of shaft abutment
d_b	min. 56 mm	Diameter of shaft abutment
D_a	min. 80 mm	Diameter of housing abutment
D_a	max. 85 mm	Diameter of housing abutment
D_b	min. 89 mm	Diameter of housing abutment
C_a	min. 6 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 2.5 mm	Radius of shaft fillet

r_b	max. 2.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	182 kN
Basic static load rating	C_0	186 kN
Fatigue load limit	P_u	20.8 kN
Reference speed		6 000 r/min
Limiting speed		7 000 r/min
Limiting value	e	0.33
Calculation factor	Y	1.8
Calculation factor	Y_0	1

Mass

Mass	1.22 kg

T2ED 050

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	100 mm
Width, total	36 mm
Width, inner ring	35 mm
Width, outer ring	30 mm
Contact angle	12.85 °

Performance

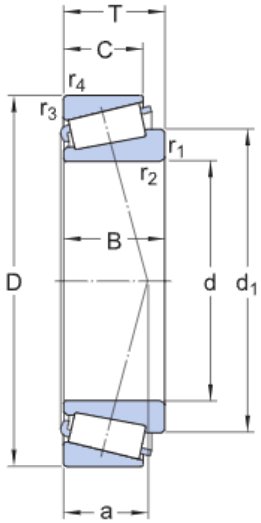
Basic dynamic load rating	189 kN
Basic static load rating	200 kN
Reference speed	5 600 r/min
Limiting speed	6 700 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

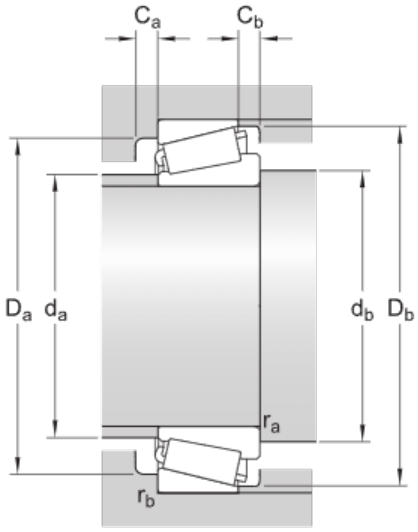
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2ED



Dimensions

d	50 mm	Bore diameter
D	100 mm	Outside diameter
T	36 mm	Total width
d_1	≈ 73.5 mm	Shoulder diameter of inner ring
B	35 mm	Width of inner ring
C	30 mm	Width of outer ring
$r_{1,2}$	min. 2.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2.5 mm	Chamfer dimension of outer ring
a	24.5 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 59 mm	Diameter of shaft abutment
d_b	min. 61 mm	Diameter of shaft abutment
D_a	min. 84 mm	Diameter of housing abutment
D_a	max. 90 mm	Diameter of housing abutment
D_b	min. 94 mm	Diameter of housing abutment
C_a	min. 6 mm	Minimum width of space required in housing on large side face
C_b	min. 6 mm	Minimum width of space required in housing on small side face
r_a	max. 2.5 mm	Radius of shaft fillet

r_b	max. 2.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	189 kN
Basic static load rating	C_0	200 kN
Fatigue load limit	P_u	22.4 kN
Reference speed		5 600 r/min
Limiting speed		6 700 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	1.31 kg

T2EE 040

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	85 mm
Width, total	33 mm
Width, inner ring	32.5 mm
Width, outer ring	28 mm
Contact angle	12.917 °

Performance

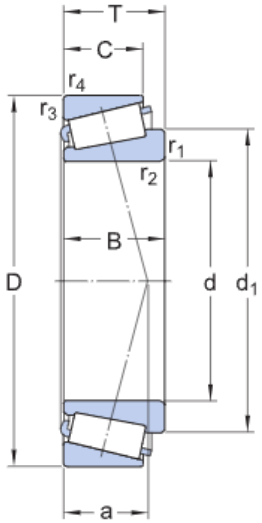
Basic dynamic load rating	150 kN
Basic static load rating	150 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

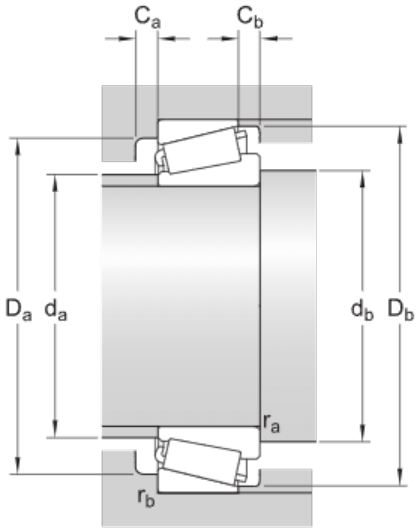
Technical Specification

SKF performance class	SKF Explorer
Dimension series	2EE



Dimensions

d	40 mm	Bore diameter
D	85 mm	Outside diameter
T	33 mm	Total width
d_1	≈ 61.2 mm	Shoulder diameter of inner ring
B	32.5 mm	Width of inner ring
C	28 mm	Width of outer ring
$r_{1,2}$	min. 2.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2 mm	Chamfer dimension of outer ring
a	21.906 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 48 mm	Diameter of shaft abutment
d_b	min. 50.5 mm	Diameter of shaft abutment
D_a	min. 70 mm	Diameter of housing abutment
D_a	max. 76.5 mm	Diameter of housing abutment
D_b	min. 80 mm	Diameter of housing abutment
C_a	min. 5 mm	Minimum width of space required in housing on large side face
C_b	min. 5 mm	Minimum width of space required in housing on small side face
r_a	max. 2.5 mm	Radius of shaft fillet

r_b max. 2 mm		Radius of housing fillet

Calculation data

Basic dynamic load rating	C	150 kN
Basic static load rating	C_0	150 kN
Fatigue load limit	P_u	17.3 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Limiting value	e	0.35
Calculation factor	Y	1.7
Calculation factor	Y_0	0.9

Mass

Mass	0.9 kg

T7FC 045

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	95 mm
Width, total	29 mm
Width, inner ring	26.5 mm
Width, outer ring	20 mm
Contact angle	30 °

Performance

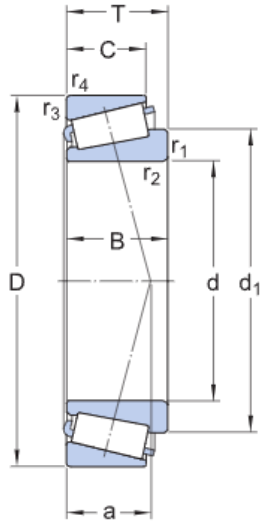
Basic dynamic load rating	110 kN
Basic static load rating	112 kN
Reference speed	5 300 r/min
Limiting speed	7 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None

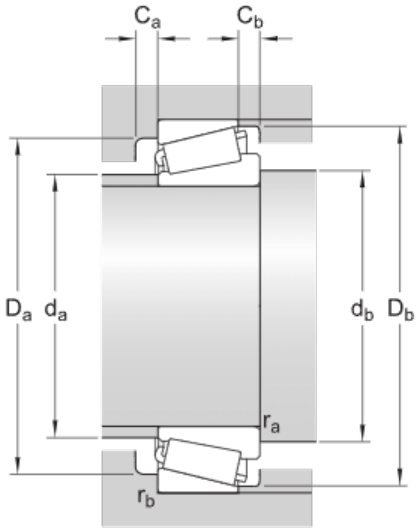
Technical Specification

SKF performance class	SKF Explorer
Dimension series	7FC



Dimensions

d	45 mm	Bore diameter
D	95 mm	Outside diameter
T	29 mm	Total width
d_1	≈ 73.4 mm	Shoulder diameter of inner ring
B	26.5 mm	Width of inner ring
C	20 mm	Width of outer ring
$r_{1,2}$	min. 2.5 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 2.5 mm	Chamfer dimension of outer ring
a	32.236 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 54 mm	Diameter of shaft abutment
d_b	min. 56 mm	Diameter of shaft abutment
D_a	min. 71 mm	Diameter of housing abutment
D_a	max. 85.5 mm	Diameter of housing abutment
D_b	min. 91 mm	Diameter of housing abutment
C_a	min. 3 mm	Minimum width of space required in housing on large side face
C_b	min. 9 mm	Minimum width of space required in housing on small side face
r_a	max. 2.5 mm	Radius of shaft fillet

r_b	max. 2.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	110 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	12.7 kN
Reference speed		5 300 r/min
Limiting speed		7 000 r/min
Limiting value	e	0.88
Calculation factor	Y	0.68
Calculation factor	Y_0	0.4

Mass

Mass	0.93 kg

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