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604-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

KF

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.806 kN
Outside diameter	12 mm	Basic static load rating	0.28 kN
Width	4 mm	Limiting speed	60 000 r/min
		Reference speed	120 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact



618/5

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter

Outside diameter

Performance

5 mm	Basic dynamic load rating	0.468 kN
11 mm	Basic static load rating	0.143 kN
3 mm	Limiting speed	75 000 r/min
	Reference speed	120 000 r/min

Properties

Width

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





619/5

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

5 mm

13 mm

4 mm

Overview

Dimensions

Bore diameter

Outside diameter

Performance

Basic dynamic load rating	0.884 kN
Basic static load rating	0.335 kN
Limiting speed	70 000 r/min
Reference speed	110 000 r/min

Properties

Width

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





619/5-2Z



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.884 kN
Outside diameter	13 mm	Basic static load rating	0.335 kN
Width	4 mm	Limiting speed	50 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact



623

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

3 mm

10 mm

4 mm

Overview

Dimensions

Bore diameter

Outside diameter

Performance

Basic dynamic load rating	0.54 kN
Basic static load rating	0.18 kN
Limiting speed	80 000 r/min
Reference speed	130 000 r/min

Properties

Width

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without







Dimensions

d	3 mm	Bore diameter
D	10 mm	Outside diameter
В	4 mm	Width
d_1	≈ 4.8 mm	Shoulder diameter
D ₂	≈ 8.2 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions



d _a	min. 4.2	mm	Diameter of shaft abutment
D _a	max. 8.8	mm	Diameter of housing abutment
r _a	max. 0.1	mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.54 kN
Basic static load rating	C ₀	0.18 kN
Fatigue load limit	Pu	0.007 kN
Reference speed		130 000 r/min
Limiting speed		80 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	7.5



Mass

Mass bearing

0.0015 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



623-2RS1



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.54 kN
Outside diameter	10 mm	Basic static load rating	0.18 kN
Width	4 mm	Limiting speed	40 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

d	3 mm	Bore diameter
D	10 mm	Outside diameter
В	4 mm	Width
d_1	≈ 4.8 mm	Shoulder diameter
D ₂	≈ 8.2 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension



d _a min. 4.2 mm	Diameter of shaft abutment
d _a max. 5.1 mm	Diameter of shaft abutment
D _a max. 8.8 mm	Diameter of housing abutment
r _a max. 0.1 mm	Radius of shaft or housing fillet

Calculation data

Da

Basic dynamic load rating	С	0.54 kN
Basic static load rating	C ₀	0.18 kN
Fatigue load limit	P _u	0.007 kN
Limiting speed		40 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	7.5



da



Mass

Mass bearing

0.0015 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



623-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.54 kN
Outside diameter	10 mm	Basic static load rating	0.18 kN
Width	4 mm	Limiting speed	60 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact







Dimensions

d	3 mm	Bore diameter
D	10 mm	Outside diameter
В	4 mm	Width
d_1	≈ 4.8 mm	Shoulder diameter
D ₂	≈ 8.2 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension



d _a min. 4.2 mm	Diameter of shaft abutment
d _a max. 5.1 mm	Diameter of shaft abutment
D _a max. 8.8 mm	Diameter of housing abutment
r _a max. 0.1 mm	Radius of shaft or housing fillet

Calculation data

Da

Basic dynamic load rating	С	0.54 kN
Basic static load rating	C _O	0.18 kN
Fatigue load limit	Pu	0.007 kN
Reference speed		130 000 r/min
Limiting speed		60 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	7.5



da



Mass

Mass bearing

0.0015 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



623-Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

KF

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.54 kN
Outside diameter	10 mm	Basic static load rating	0.18 kN
Width	4 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on one side
Sealing type	Non-contact





Dimensions

d	3 mm	Bore diameter
D	10 mm	Outside diameter
В	4 mm	Width
d_1	≈ 4.8 mm	Shoulder diameter
D ₂	≈ 8.2 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension



d _a min. 4.2 mm	Diameter of shaft abutment
d _a max. 5.1 mm	Diameter of shaft abutment
D _a max. 8.8 mm	Diameter of housing abutment
r _a max. 0.1 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	0.54 kN
Basic static load rating	C ₀	0.18 kN
Fatigue load limit	P _u	0.007 kN
Reference speed		130 000 r/min
Limiting speed		80 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f _O	7.5



Mass

Mass bearing

0.0015 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



624-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

KF

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.936 kN
Outside diameter	13 mm	Basic static load rating	0.29 kN
Width	5 mm	Limiting speed	53 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact



624

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

4 mm

13 mm

5 mm

Overview

Dimensions

Bore diameter

Outside diameter

Performance

Basic dynamic load rating	0.936 kN
Basic static load rating	0.29 kN
Limiting speed	67 000 r/min
Reference speed	110 000 r/min

SKF

Properties

Width

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



624-Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.936 kN
Outside diameter	13 mm	Basic static load rating	0.29 kN
Width	5 mm	Limiting speed	67 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on one side
Sealing type	Non-contact





625

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Width

Bore diameter

Outside diameter

Performance

5 mm	Basic dynamic load rating	1.14 kN
16 mm	Basic static load rating	0.38 kN
5 mm	Limiting speed	60 000 r/min
	Reference speed	95 000 r/min
	SKF performance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





625-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

SKF

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	1.14 kN
Outside diameter	16 mm	Basic static load rating	0.38 kN
Width	5 mm	Limiting speed	48 000 r/min
		Reference speed	95 000 r/min
		SKF performance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



625-Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

SKF

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	1.14 kN
Outside diameter	16 mm	Basic static load rating	0.38 kN
Width	5 mm	Limiting speed	60 000 r/min
		Reference speed	95 000 r/min
		SKF performance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on one side



626

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

6 mm

19 mm

6 mm

Overview

Dimensions

Width

Bore diameter

Outside diameter

Performance

Basic dynamic load rating	2.34 kN
Basic static load rating	0.95 kN
Limiting speed	50 000 r/min
Reference speed	80 000 r/min
SKF performance class	SKF Explorer

KF

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



SKF performance class





Dimensions

d	6 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₁	≈ 11.1 mm	Shoulder diameter
D ₂	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a	min. 8.4 mm	Diameter of shaft abutment
D_{a}	max. 16.6 mm	Diameter of housing abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet



Da

d,

Calculation data

Basic dynamic load rating	С	2.34 kN
Basic static load rating	C ₀	0.95 kN
Fatigue load limit	P _u	0.04 kN
Reference speed		80 000 r/min



Limiting speed		50 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	13
Mass		
Mass bearing		0.0081 kg
Tolerance class		
Dimensional tolerances		P6
Radial run-out		Normal



626-2RSH

Deep groove ball bearing with seals

Single row deep groove ball bearings with seals on one or both sides are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	2.34 kN
Outside diameter	19 mm	Basic static load rating	0.95 kN
Width	6 mm	Limiting speed	24 000 r/min
		SKF performance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





SKF performance class

SKF Explorer



Dimensions

d	6 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 9.5 mm	Recess diameter
D ₂	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a min. 8.4 mm	Diameter of shaft abutment
d _a max. 9.4 mm	Diameter of shaft abutment
D _a max. 16.6 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	2.34 kN
Basic static load rating	C _O	0.95 kN
Fatigue load limit	P _u	0.04 kN
Limiting speed		24 000 r/min





Minimum load factor	k _r	0.025
Calculation factor	f ₀	13
Mass		
Mass bearing		0.0083 kg
l olerance class		
Dimensional tolerances		P6
Radial run-out		Normal



626-2RSL

Deep groove ball bearing with seals

Single row deep groove ball bearings with seals on one or both sides are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	2.34 kN
Outside diameter	19 mm	Basic static load rating	0.95 kN
Width	6 mm	Limiting speed	40 000 r/min
		Reference speed	80 000 r/min
		SKF performance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



SKF performance class





Dimensions

d	6 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 9.5 mm	Recess diameter
D ₂	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a min. 8.4 mm	Diameter of shaft abutment
d _a max. 9.4 mm	Diameter of shaft abutment
D _a max. 16.6 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Da

d

Basic dynamic load rating	С	2.34 kN
Basic static load rating	C ₀	0.95 kN
Fatigue load limit	Pu	0.04 kN
Reference speed		80 000 r/min



Limiting speed		40 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	13
Mass		
Mass bearing		0.0083 kg
Tolerance class		
Dimensional tolerances		P6
Radial run-out		Normal



626-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

SKF

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	2.34 kN
Outside diameter	19 mm	Basic static load rating	0.95 kN
Width	6 mm	Limiting speed	40 000 r/min
		Reference speed	80 000 r/min
		SKF performance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



SKF performance class





Dimensions

d	6 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₁	≈ 11.1 mm	Shoulder diameter
D ₂	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a min. 8.4 mm	Diameter of shaft abutment
d _a max. 11 mm	Diameter of shaft abutment
D _a max. 16.6 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	2.34 kN
Basic static load rating	C ₀	0.95 kN
Fatigue load limit	P _u	0.04 kN
Reference speed		80 000 r/min



Limiting speed		40 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	13
Mass		
Mass bearing		0.0088 kg
Tolerance class		
Dimensional tolerances		P6
Radial run-out		Normal



626-RSH

Deep groove ball bearing with seals

Single row deep groove ball bearings with seals on one or both sides are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	2.34 kN
Outside diameter	19 mm	Basic static load rating	0.95 kN
Width	6 mm	Limiting speed	24 000 r/min
		SKF performance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on one side
Sealing type	Contact




SKF performance class





Dimensions

d	6 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 9.5 mm	Recess diameter
D_2	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a min. 8.4 mm	Diameter of shaft abutment
d _a max. 9.4 mm	Diameter of shaft abutment
D _a max. 16.6 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	2.34 kN
Basic static load rating	C _O	0.95 kN
Fatigue load limit	P _u	0.04 kN
Limiting speed		24 000 r/min



Minimum load factor	k _r	0.025
Calculation factor	f ₀	13
N4		
Mass		
Mass bearing		0.0084 kg
Tolerance class		
Dimensional tolerances		P6
Radial run-out		Normal



626-Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	2.34 kN
Outside diameter	19 mm	Basic static load rating	0.95 kN
Width	6 mm	Limiting speed	50 000 r/min
		Reference speed	80 000 r/min
		SKF performance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on one side



SKF performance class





Dimensions

d	6 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₁	≈11.1 mm	Shoulder diameter
D ₂	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a min. 8.4 mm	Diameter of shaft abutment
d _a max. 11 mm	Diameter of shaft abutment
D _a max. 16.6 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	2.34 kN
Basic static load rating	C ₀	0.95 kN
Fatigue load limit	P _u	0.04 kN
Reference speed		80 000 r/min





Limiting speed		50 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	13
Mass		
Mass bearing		0.0088 kg
Tolerance class		
Dimensional tolerances		P6
Radial run-out		Normal



628/5-2Z



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.468 kN
Outside diameter	11 mm	Basic static load rating	0.143 kN
Width	4 mm	Limiting speed	60 000 r/min
		Reference speed	120 000 r/min

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without
Sealing type	Non-contact



628/6-2Z



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.88 kN
Outside diameter	13 mm	Basic static load rating	0.35 kN
Width	5 mm	Limiting speed	53 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without
Sealing type	Non-contact





Dimensions

d	6 mm	Bore diameter
D	13 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.4 mm	Recess diameter
D ₂	≈ 11.7 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension



	r _a	
Da		d _a
,		t

d _a min. 6.8 mm	Diameter of shaft abutment
d _a max. 7.2 mm	Diameter of shaft abutment
D _a max. 12.2 mm	Diameter of housing abutment
r _a max. 0.1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.88 kN
Basic static load rating	C _O	0.35 kN
Fatigue load limit	P _u	0.015 kN
Reference speed		110 000 r/min
Limiting speed		53 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7



Mass

Mass bearing

0.0025 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



634-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

KF

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	1.11 kN
Outside diameter	16 mm	Basic static load rating	0 38 kN
Width	5 mm	Limiting speed	48 000 r/min
		Reference speed	95 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact



634

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

4 mm

16 mm

5 mm

Overview

Dimensions

Bore diameter

Outside diameter

Performance

Basic dynamic load rating	1.11 kN
Basic static load rating	0.38 kN
Limiting speed	60 000 r/min
Reference speed	95 000 r/min

KF

Properties

Width

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



635

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

5 mm

19 mm

6 mm

Overview

Dimensions

Width

Bore diameter

Outside diameter

Performance

Basic dy	namic load rating	2.34 kN
Basic sta	tic load rating	0.95 kN
Limiting	speed	50 000 r/min
Reference	e speed	80 000 r/min
SKF perf	ormance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





SKF performance class





Dimensions

d	5 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₁	≈ 11.1 mm	Shoulder diameter
D ₂	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a	min. 7.4 mm	Diameter of shaft abutment
Da	max. 16.6 mm	Diameter of housing abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	2.34 kN
Basic static load rating	C ₀	0.95 kN
Fatigue load limit	P _u	0.04 kN
Reference speed		80 000 r/min



Limiting speed		50 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	13
Mass		
Mass bearing		0.0085 kg
Tolerance class		
Dimensional tolerances		P6
Radial run-out		Normal



635-2Z

Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

SKF

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	2.34 kN
Outside diameter	19 mm	Basic static load rating	0.95 kN
Width	6 mm	Limiting speed	40 000 r/min
		Reference speed	80 000 r/min
		SKF performance class	SKF Explorer

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



SKF performance class





Dimensions

d	5 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₁	≈ 11.1 mm	Shoulder diameter
D ₂	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a min. 7.4 mm	Diameter of shaft abutment
d _a max. 10.6 mm	Diameter of shaft abutment
D _a max. 16.6 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Da da

Calculation data

Basic dynamic load rating	С	2.34 kN
Basic static load rating	C _O	0.95 kN
Fatigue load limit	Pu	0.04 kN
Reference speed		80 000 r/min



Limiting speed		40 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	13
Mass		
Mass bearing		0.0093 kg
Tolerance class		
Dimensional tolerances		P6
Radial run-out		Normal



638/5-2Z



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.468 kN
Outside diameter	11 mm	Basic static load rating	0.143 kN
Width	5 mm	Limiting speed	60 000 r/min
		Reference speed	120 000 r/min

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact





Dimensions

d	5 mm	Bore diameter
D	11 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.2 mm	Recess diameter
D ₂	≈ 9.9 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension



d _a	min. 5.8 mm	Diameter of shaft abutment
d _a	max. 6 mm	Diameter of shaft abutment
D _a	max. 10.2 mm	Diameter of housing abutment
r _a	max. 0.1 mm	Radius of shaft or housing fillet

Calculation data

Da

 d_a

Basic dynamic load rating	С	0.468 kN
Basic static load rating	C ₀	0.143 kN
Fatigue load limit	Pu	0.006 kN
Reference speed		120 000 r/min
Limiting speed		60 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.1



Mass

Mass bearing

0.0018 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



618/4

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

4 mm

9 mm

2.5 mm

Overview

Dimensions

Bore diameter

Outside diameter

Performance

Basic dynamic load rating	0.423 kN
Basic static load rating	0.116 kN
Limiting speed	85 000 r/min
Reference speed	140 000 r/min

Properties

Width

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





619/4-2Z



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.624 kN
Outside diameter	11 mm	Basic static load rating	0.18 kN
Width	4 mm	Limiting speed	63 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact



619/4

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

4 mm

11 mm

4 mm

Overview

Dimensions

Bore diameter

Outside diameter

Performance

Basic dynamic load rating	0.624 kN
Basic static load rating	0.18 kN
Limiting speed	80 000 r/min
Reference speed	130 000 r/min

Properties

Width

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



628/4-2Z



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.423 kN
Outside diameter	9 mm	Basic static load rating	0.116 kN
Width	3.5 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact



638/4-2Z



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.423 kN
Outside diameter	9 mm	Basic static load rating	0.116 kN
Width	4 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact



D/W R1-5-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2.38 mm	Basic dynamic load rating	0.312 kN
Outside diameter	7.938 mm	Basic static load rating	0.088 kN
Width	3.571 mm	Limiting speed	80 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	2.38 mm	Bore diameter
D	7.938 mm	Outside diameter
В	3.571 mm	Width
d_1	≈ 4.1 mm	Shoulder diameter
d ₂	≈ 4.1 mm	Recess diameter
D ₂	≈ 7.04 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d_a	min. 3.6 mm	Diameter of shaft abutment
d _a	max. 4 mm	Diameter of shaft abutment
D _a	max. 7.1 mm	Diameter of housing abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Da

da

Basic dynamic load rating	С	0.312 kN
Basic static load rating	C _O	0.088 kN
Fatigue load limit	P _u	0.004 kN
Reference speed		160 000 r/min
Limiting speed		80 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	5.9



Mass

Mass bearing

0.000817 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



D/W R1-5

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.38 mm	Basic dynamic load rating	0.312 kN
Outside diameter	7.938 mm	Basic static load rating	0.088 kN
Width	2.779 mm	Limiting speed	95 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R1-5 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.38 mm	Basic dynamic load rating	0.312 kN
Dutside diameter	7.938 mm	Basic static load rating	0.088 kN
Width	2.779 mm	Limiting speed	95 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	2.38 mm	Bore diameter
D	7.938 mm	Outside diameter
В	2.779 mm	Width
d_1	≈ 4.1 mm	Shoulder diameter
D_1	≈ 6.4 mm	Shoulder diameter
D_2	≈ 6.4 mm	Recess diameter
D ₃	9.119 mm	Flange diameter
С	0.584 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d_a	min. 3.6 mm	Diameter of shaft abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	0.312 kN
Basic static load rating	C ₀	0.088 kN
Fatigue load limit	P _u	0.004 kN
Reference speed		160 000 r/min
Limiting speed		95 000 r/min
Minimum load factor	k _r	0.03



Calculation factor	f ₀	5.9
Mass		
Mass bearing		0.0007 kg
l olerance class		

Dimens	ional tolerances	Normal
Radial r	run-out	Normal



D/W R1-5 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2.38 mm	Basic dynamic load rating	0.312 kN
Outside diameter	7.938 mm	Basic static load rating	0.088 kN
Width	3.571 mm	Limiting speed	80 000 r/min

Reference speed 160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact



D/W R3

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.741 kN
Outside diameter	12.7 mm	Basic static load rating	0.25 kN
Width	3.967 mm	Limiting speed	70 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



D/W R3-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.741 kN
Outside diameter	12.7 mm	Basic static load rating	0.25 kN
Width	4.978 mm	Limiting speed	56 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides


D/W R3A-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.852 kN
Outside diameter	15.875 mm	Basic static load rating	0.315 kN
Width	4.978 mm	Limiting speed	28 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



D/W R3A-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.852 kN
Outside diameter	15.875 mm	Basic static load rating	0.315 kN
Width	4.978 mm	Limiting speed	45 000 r/min
		Reference speed	85 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R3A

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.852 kN
Outside diameter	15.875 mm	Basic static load rating	0.315 kN
Width	4.978 mm	Limiting speed	56 000 r/min
		Reference speed	85 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R3 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.741 kN
Outside diameter	12.7 mm	Basic static load rating	0.25 kN
Width	4.978 mm	Limiting speed	70 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



D/W R3 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.741 kN
Outside diameter	12.7 mm	Basic static load rating	0.25 kN
Width	4.978 mm	Limiting speed	32 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



D/W R3W.1562-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.605 kN
Outside diameter	12.7 mm	Basic static load rating	0.216 kN
Width	3.967 mm	Limiting speed	56 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R3W.1562 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.741 kN
Outside diameter	12.7 mm	Basic static load rating	0.25 kN
Width	3.967 mm	Limiting speed	70 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



D/W R133

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.38 mm	Basic dynamic load rating	0.104 kN
Outside diameter	4.762 mm	Basic static load rating	0.03 kN
Width	1.588 mm	Limiting speed	120 000 r/min
		Reference speed	190 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Technical Specification



Dimensions

d	2.38 mm	Bore diameter
D	4.762 mm	Outside diameter
В	1.588 mm	Width
d ₁	≈ 2.98 mm	Shoulder diameter
D_1	≈ 4.13 mm	Shoulder diameter
r _{1,2}	min. 0.1 mm	Chamfer dimension

Abutment dimensions



d _a	min. 2.8 mm	Diameter of shaft abutment
D _a	max. 4.2 mm	Diameter of housing abutment
r _a	max. 0.1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.104 kN
Basic static load rating	C ₀	0.03 kN
Fatigue load limit	P _u	0.001 kN
Reference speed		190 000 r/min
Limiting speed		120 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	6.7



Mass

Mass bearing

0.0001 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



D/W R133-2ZS



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2.38 mm	Basic dynamic load rating	0.078 kN
Outside diameter	4.762 mm	Basic static load rating	0.025 kN
Width	2.38 mm	Limiting speed	95 000 r/min
		Reference speed	190 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



Sealing type

Non-contact



Technical Specification



Dimensions

d	2.38 mm	Bore diameter
D	4.762 mm	Outside diameter
В	2.38 mm	Width
d_1	≈3 mm	Shoulder diameter
d ₂	≈3 mm	Recess diameter
D ₂	≈ 4.2 mm	Recess diameter
r _{1,2}	min. 0.1 mm	Chamfer dimension

Abutment dimensions

d _a min. 2.9 mm	Diameter of shaft abutment
d _a max. 2.9 mm	Diameter of shaft abutment
D _a max. 4.3 mm	Diameter of housing abutment
r _a max. 0.1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.078 kN
Basic static load rating	C ₀	0.025 kN
Fatigue load limit	Pu	0.001 kN
Reference speed		190 000 r/min
Limiting speed		95 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	6.9



Mass

Mass bearing

0.000203 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



D/W R133 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.38 mm	Basic dynamic load rating	0.104 kN
Outside diameter	4.762 mm	Basic static load rating	0.03 kN
Width	1.588 mm	Limiting speed	120 000 r/min
		Reference speed	190 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



Technical Specification



Dimensions

d	2.38 mm	Bore diameter
D	4.762 mm	Outside diameter
В	1.588 mm	Width
d_1	≈ 2.98 mm	Shoulder diameter
D_1	≈ 4.13 mm	Shoulder diameter
D_2	≈ 4.13 mm	Recess diameter
D ₃	5.944 mm	Flange diameter
С	0.457 mm	Flange width
r _{1,2}	min. 0.1 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 2.9 mm	Diameter of shaft abutment
r _a	max. 0.1 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	0.104 kN
Basic static load rating	C ₀	0.03 kN
Fatigue load limit	P _u	0.001 kN
Reference speed		190 000 r/min
Limiting speed		120 000 r/min
Minimum load factor	k _r	0.02



Calculation factor	f _O	6.7
Mass		
Mass bearing		0.0001 kg
l olerance class		

Dimens	ional tolerances	Normal
Radial r	run-out	Normal



D/W R133 R-2ZS



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2.38 mm	Basic dynamic load rating	0.078 kN
Outside diameter	4.762 mm	Basic static load rating	0.025 kN
Width	2.38 mm	Limiting speed	95 000 r/min

Reference speed 190 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact



D/W R156

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.203 kN
Outside diameter	7.938 mm	Basic static load rating	0.075 kN
Width	2.779 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R156-2ZS



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.203 kN
Outside diameter	7.938 mm	Basic static load rating	0.075 kN
Width	3.175 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R156 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.203 kN
Outside diameter	7.938 mm	Basic static load rating	0.075 kN
Width	2.779 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



D/W R156 R-2ZS



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.203 kN
Outside diameter	7.938 mm	Basic static load rating	0.075 kN
Width	3.175 mm	Limiting speed	70 000 r/min

Reference speed 140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact



D/W R166

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.403 kN
Outside diameter	9.525 mm	Basic static load rating	0.137 kN
Width	3.175 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R166 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.403 kN
Outside diameter	9.525 mm	Basic static load rating	0.137 kN
Width	3.175 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



D/W R166 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4.762 mm	Basic dynamic load rating	0.403 kN
Outside diameter	9.525 mm	Basic static load rating	0.137 kN
Width	3.175 mm	Limiting speed	63 000 r/min

Reference speed 130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact



D/W R1-4-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	1.984 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	3.571 mm	Limiting speed	85 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R1-4-2ZS



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	1.984 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	3.571 mm	Limiting speed	85 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R1-4 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	1.984 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	3.571 mm	Limiting speed	85 000 r/min

Reference speed 170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



D/W R1-4 R-2ZS



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	1.984 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	3.571 mm	Limiting speed	85 000 r/min

Reference speed 170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



D/W R1-4 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	1.984 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	2.38 mm	Limiting speed	100 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



D/W R2-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.358 kN
Outside diameter	9.525 mm	Basic static load rating	0.11 kN
Width	3.967 mm	Limiting speed	40 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



D/W R2-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.358 kN
Outside diameter	9.525 mm	Basic static load rating	0.11 kN
Width	3.967 mm	Limiting speed	67 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R2-5-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Dere diameter	2175	Desis dynamic load rating	0.210 [/]
Bore diameter	3.1/5 mm	Basic dynamic load rating	0.319 KIN
Outside diameter	7.938 mm	Basic static load rating	0.09 kN
Width	3.571 mm	Limiting speed	75 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides


D/W R2-5

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.319 kN
Outside diameter	7.938 mm	Basic static load rating	0.09 kN
Width	2.779 mm	Limiting speed	95 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R2-5 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.319 kN
Outside diameter	7.938 mm	Basic static load rating	0.09 kN
Width	3.571 mm	Limiting speed	75 000 r/min

Reference speed 150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



D/W R2-5 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.319 kN
Outside diameter	7.938 mm	Basic static load rating	0.09 kN
Width	2.779 mm	Limiting speed	95 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R2-6-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9.525 mm	Basic static load rating	0.114 kN
Width	3.571 mm	Limiting speed	40 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



D/W R2-6-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9.525 mm	Basic static load rating	0.114 kN
Width	3.571 mm	Limiting speed	63 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R2-6

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9.525 mm	Basic static load rating	0.114 kN
Width	2.779 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R2-6 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9.525 mm	Basic static load rating	0.114 kN
Width	3.571 mm	Limiting speed	63 000 r/min

Reference speed 130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



D/W R2-6 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9.525 mm	Basic static load rating	0.114 kN
Width	2.779 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R2A-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.364 kN
Outside diameter	12.7 mm	Basic static load rating	0.114 kN
Width	4.366 mm	Limiting speed	63 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R2A

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.364 kN
Outside diameter	12.7 mm	Basic static load rating	0.114 kN
Width	4.366 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R2

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.358 kN
Outside diameter	9.525 mm	Basic static load rating	0.11 kN
Width	3.967 mm	Limiting speed	85 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R2 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.358 kN
Outside diameter	9.525 mm	Basic static load rating	0.11 kN
Width	3.967 mm	Limiting speed	40 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



D/W R2 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.358 kN
Outside diameter	9.525 mm	Basic static load rating	0.11 kN
Width	3.967 mm	Limiting speed	67 000 r/min

Reference speed 130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



D/W R2 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.358 kN
Outside diameter	9.525 mm	Basic static load rating	0.11 kN
Width	3.967 mm	Limiting speed	85 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



D/W R144-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	2.779 mm	Limiting speed	85 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R144

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	2.38 mm	Limiting speed	100 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R144 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	2.779 mm	Limiting speed	85 000 r/min

Reference speed 170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



D/W R144 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	2.38 mm	Limiting speed	100 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



D/W R144W.0937-2ZS



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.175 mm	Basic dynamic load rating	0.174 kN
Outside diameter	6.35 mm	Basic static load rating	0.055 kN
Width	2.38 mm	Limiting speed	85 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R155-2ZS



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.967 mm	Basic dynamic load rating	0.203 kN
Outside diameter	7.938 mm	Basic static load rating	0.075 kN
Width	3.175 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



D/W R155

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.967 mm	Basic dynamic load rating	0.203 kN
Outside diameter	7.938 mm	Basic static load rating	0.075 kN
Width	2.779 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





D/W R155 R-2ZS



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3.967 mm	Basic dynamic load rating	0.203 kN
Outside diameter	7.938 mm	Basic static load rating	0.075 kN
Width	3.175 mm	Limiting speed	70 000 r/min

Reference speed 140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



D/W R155 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3.967 mm	Basic dynamic load rating	0.203 kN
Outside diameter	7.938 mm	Basic static load rating	0.075 kN
Width	2.779 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



D/W RW1-4-2ZS



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	1.984 mm	Basic dynamic load rating	0.163 kN
Outside diameter	6.35 mm	Basic static load rating	0.048 kN
Width	4.366 mm	Limiting speed	85 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 60/2.5

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.312 kN
Outside diameter	8 mm	Basic static load rating	0.088 kN
Width	2.8 mm	Limiting speed	95 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Technical Specification



Dimensions

d	2.5 mm	Bore diameter
D	8 mm	Outside diameter
В	2.8 mm	Width
d_1	≈ 4.11 mm	Shoulder diameter
D_1	≈ 6.39 mm	Shoulder diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a min. 3.7 mm	Diameter of shaft abutment
D _a max. 6.8 mm	Diameter of housing abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Da

d,

Basic dynamic load rating	С	0.312 kN
Basic static load rating	C ₀	0.088 kN
Fatigue load limit	P _u	0.004 kN
Reference speed		160 000 r/min
Limiting speed		95 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	5.9



Mass

Mass bearing

0.0006 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 60/2.5 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.312 kN
Outside diameter	8 mm	Basic static load rating	0.088 kN
Width	2.8 mm	Limiting speed	95 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 602

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

ikf

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.221 kN
Outside diameter	7 mm	Basic static load rating	0.067 kN
Width	2.8 mm	Limiting speed	100 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 602 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.221 kN
Outside diameter	7 mm	Basic static load rating	0.067 kN
Width	2.8 mm	Limiting speed	100 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 602 X-2ZS



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.221 kN
Outside diameter	7 mm	Basic static load rating	0.067 kN
Width	3 mm	Limiting speed	80 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 602 XR-2ZS



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	2 mm
Outside diameter	7 mm
Width	3 mm

Performance

Basic dynamic load rating	0.221 kN
Basic static load rating	0.067 kN
Limiting speed	80 000 r/min
Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 603

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.325 kN
Outside diameter	9 mm	Basic static load rating	0.095 kN
Width	3 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Technical Specification



Dimensions

d	3 mm	Bore diameter
D	9 mm	Outside diameter
В	3 mm	Width
d ₁	≈ 4.86 mm	Shoulder diameter
D_1	≈ 7.2 mm	Shoulder diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

	r _a	-
D _a		da
,		

d _a	min. 4.2 mm	Diameter of shaft abutment
D _a	max. 7.8 mm	Diameter of housing abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.325 kN
Basic static load rating	C ₀	0.095 kN
Fatigue load limit	Pu	0.004 kN
Reference speed		140 000 r/min
Limiting speed		90 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	6.4



Mass

Mass bearing

0.0008 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 603 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.325 kN
Outside diameter	9 mm	Basic static load rating	0.095 kN
Width	3 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without




Dimensions

d	3 mm	Bore diameter
D	9 mm	Outside diameter
В	3 mm	Width
d_1	≈ 4.86 mm	Shoulder diameter
D_1	≈ 7.2 mm	Shoulder diameter
D ₂	≈ 7.2 mm	Recess diameter
D ₃	10.5 mm	Flange diameter
С	0.7 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 4.2 mm	Diameter of shaft abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.325 kN
Basic static load rating	C ₀	0.095 kN
Fatigue load limit	P _u	0.004 kN
Reference speed		140 000 r/min
Limiting speed		90 000 r/min
Minimum load factor	k _r	0.03



Calculation factor	f	6.4
	'0	0.4
Mass		
Mass bearing		0.001 kg
Tolerance class		

Dimensional tolerances	Normal
Radial run-out	Normal



W 603 X-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.325 kN
Outside diameter	9 mm	Basic static load rating	0.095 kN
Width	4 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	3 mm	Bore diameter
D	9 mm	Outside diameter
В	4 mm	Width
d ₂	≈ 4.35 mm	Recess diameter
D ₂	≈ 7.9 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension



d _a min. 3.9 mm	Diameter of shaft abutment
d _a max. 4.3 mm	Diameter of shaft abutment
D _a max. 8 mm	Diameter of housing abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.325 kN
Basic static load rating	C ₀	0.095 kN
Fatigue load limit	P _u	0.004 kN
Reference speed		140 000 r/min
Limiting speed		70 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	6.4



Mass bearing

0.0011 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 603 XR-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.325 kN
Outside diameter	9 mm	Basic static load rating	0.095 kN
Width	4 mm	Limiting speed	70 000 r/min

Reference speed 140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact





Dimensions

d	3 mm	Bore diameter
D	9 mm	Outside diameter
В	4 mm	Width
d ₂	≈ 4.35 mm	Recess diameter
D ₂	≈ 7.9 mm	Recess diameter
D ₃	10.6 mm	Flange diameter
С	0.8 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a min. 3.9 mm	Diameter of shaft abutment
d _a max. 4.3 mm	Diameter of shaft abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	0.325 kN
Basic static load rating	C ₀	0.095 kN
Fatigue load limit	Pu	0.004 kN
Reference speed		140 000 r/min
Limiting speed		70 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	6.4



Mass bearing

0.0012 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 604-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	12 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	36 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 604-2Z



Stainless steel deep groove ball bearing with integral sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	12 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	63 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 604

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	12 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 604 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	12 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	36 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



W 604 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	12 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	63 000 r/min

Reference speed 130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 604 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	12 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 605

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	14 mm	Basic static load rating	0.26 kN
Width	5 mm	Limiting speed	67 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without







Dimensions

d	5 mm	Bore diameter
D	14 mm	Outside diameter
В	5 mm	Width
d ₂	≈6.9 mm	Recess diameter
D ₂	≈12.2 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a min. 6.6 mm	Diameter of shaft abutment
D _a max. 12.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Da

da

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.26 kN
Fatigue load limit	Pu	0.011 kN
Reference speed		110 000 r/min
Limiting speed		67 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	6.6



Mass bearing

0.0031 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 605-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	14 mm	Basic static load rating	0.26 kN
Width	5 mm	Limiting speed	30 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

d	5 mm	Bore diameter
D	14 mm	Outside diameter
В	5 mm	Width
d ₂	≈6.9 mm	Recess diameter
D ₂	≈12.2 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension



Abutment dimensions

d _a	min. 6.6 mm	Diameter of shaft abutment
d _a	max. 6.8 mm	Diameter of shaft abutment
D _a	max. 12.4 mm	Diameter of housing abutment
r _a	max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Da

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.26 kN
Fatigue load limit	P _u	0.011 kN
Limiting speed		30 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	6.6



Mass bearing

0.0035 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 605-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	14 mm	Basic static load rating	0.26 kN
Width	5 mm	Limiting speed	53 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	5 mm	Bore diameter
D	14 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.9 mm	Recess diameter
D ₂	≈ 12.2 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension



d _a min. 6.6 mm	Diameter of shaft abutment
d _a max. 6.8 mm	Diameter of shaft abutment
D _a max. 12.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Da

 d_a

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.26 kN
Fatigue load limit	Pu	0.011 kN
Reference speed		110 000 r/min
Limiting speed		53 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	6.6



Mass bearing

0.0034 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 605 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	14 mm	Basic static load rating	0.26 kN
Width	5 mm	Limiting speed	67 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	5 mm	Bore diameter
D	14 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.9 mm	Recess diameter
D ₂	≈12.2 mm	Recess diameter
D_3	16 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a min. 6.6 mm	Diameter of shaft abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.26 kN
Fatigue load limit	Pu	0.011 kN
Reference speed		110 000 r/min
Limiting speed		67 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	6.6



Mass bearing

0.0035 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 605 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	14 mm	Basic static load rating	0.26 kN
Width	5 mm	Limiting speed	30 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides





Dimensions

d	5 mm	Bore diameter
D	14 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.9 mm	Recess diameter
D ₂	≈12.2 mm	Recess diameter
D ₃	16 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 6.6 mm	Diameter of shaft abutment
d _a	max. 6.8 mm	Diameter of shaft abutment
r _a	max. 0.2 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.26 kN
Fatigue load limit	P _u	0.011 kN
Limiting speed		30 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	6.6



Mass bearing

0.0038 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 605 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	14 mm	Basic static load rating	0.26 kN
Width	5 mm	Limiting speed	53 000 r/min

Reference speed	110 000 r/mir	۱

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact





Dimensions

d	5 mm	Bore diameter
D	14 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.9 mm	Recess diameter
D ₂	≈ 12.2 mm	Recess diameter
D_3	16 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 6.6 mm	Diameter of shaft abutment
d _a	max. 6.8 mm	Diameter of shaft abutment
r _a	max. 0.2 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.26 kN
Fatigue load limit	P _u	0.011 kN
Reference speed		110 000 r/min
Limiting speed		53 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	6.6



Mass bearing

0.0038 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 606

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	1.95 kN
		, , , , , , , , , , , , , , , , , , , ,	
Outside diameter	17 mm	Basic static load rating	0.83 kN
	1,	Dasie state toda rating	
Width	6 mm	Limiting speed	60 000 r/min
Widen	8 11111	Enning speed	00 000 1/1111
		Poforanco spood	95 000 r/min
		Nelelelice speed	75 000 1/1111

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	6 mm	Bore diameter
D	17 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.2 mm	Recess diameter
D ₂	≈14.8 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions



d _a	min. 7.7 mm	Diameter of shaft abutment
D _a	max. 15 mm	Diameter of housing abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	1.95 kN
Basic static load rating	C ₀	0.83 kN
Fatigue load limit	Pu	0.036 kN
Reference speed		95 000 r/min
Limiting speed		60 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.4


Mass bearing

0.0054 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 606-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	1.95 kN
Outside diameter	17 mm	Basic static load rating	0.83 kN
Width	6 mm	Limiting speed	26 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

d	6 mm	Bore diameter
D	17 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.2 mm	Recess diameter
D ₂	≈14.8 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension



d_a	min. 7.7 mm	Diameter of shaft abutment
d _a	max. 8.1 mm	Diameter of shaft abutment
D _a	max. 15 mm	Diameter of housing abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	1.95 kN
Basic static load rating	C ₀	0.83 kN
Fatigue load limit	Pu	0.036 kN
Limiting speed		26 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.4





Mass bearing

0.0058 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 606-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	1.95 kN
Outside diameter	17 mm	Basic static load rating	0.83 kN
Width	6 mm	Limiting speed	48 000 r/min
		Reference speed	95 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	6 mm	Bore diameter
D	17 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.2 mm	Recess diameter
D ₂	≈14.8 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension



1	ra ra		
Da		d _a	
,		, =	

d _a min. 7.7 mm	Diameter of shaft abutment
d _a max. 8.1 mm	Diameter of shaft abutment
D _a max. 15 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	1.95 kN
Basic static load rating	C ₀	0.83 kN
Fatigue load limit	Pu	0.036 kN
Reference speed		95 000 r/min
Limiting speed		48 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.4



Mass bearing

0.006 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 606 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	1.95 kN
Outside diameter	17 mm	Basic static load rating	0.83 kN
Width	6 mm	Limiting speed	60 000 r/min
		Reference speed	95 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	6 mm	Bore diameter
D	17 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.2 mm	Recess diameter
D ₂	≈14.8 mm	Recess diameter
D_3	19 mm	Flange diameter
С	1.2 mm	Flange width
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a min. 7.7 mm	Diameter of shaft abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	1.95 kN
Basic static load rating	C _O	0.83 kN
Fatigue load limit	P _u	0.036 kN
Reference speed		95 000 r/min
Limiting speed		60 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.4



Mass bearing

0.0059 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 606 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	1.95 kN
Outside diameter	17 mm	Basic static load rating	0.83 kN
Width	6 mm	Limiting speed	26 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides





Dimensions

d	6 mm	Bore diameter
D	17 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.2 mm	Recess diameter
D ₂	≈14.8 mm	Recess diameter
D_3	19 mm	Flange diameter
С	1.2 mm	Flange width
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 7.7 mm	Diameter of shaft abutment
d _a	max. 8.1 mm	Diameter of shaft abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	1.95 kN
Basic static load rating	C _O	0.83 kN
Fatigue load limit	P _u	0.036 kN
Limiting speed		26 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.4



Mass bearing

0.0063 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 606 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	1.95 kN
Outside diameter	17 mm	Basic static load rating	0.83 kN
Width	6 mm	Limiting speed	48 000 r/min

Reference s	peed	95	000	r/min
				.,

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact





Dimensions

d	6 mm	Bore diameter
D	17 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.2 mm	Recess diameter
D ₂	≈14.8 mm	Recess diameter
D_3	19 mm	Flange diameter
С	1.2 mm	Flange width
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 7.7 mm	Diameter of shaft abutment
d _a	max. 8.1 mm	Diameter of shaft abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	1.95 kN
Basic static load rating	C ₀	0.83 kN
Fatigue load limit	P _u	0.036 kN
Reference speed		95 000 r/min
Limiting speed		48 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.4



Mass bearing

0.0065 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 617/3

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.117 kN
Outside diameter	6 mm	Basic static load rating	0.036 kN
Width	2 mm	Limiting speed	110 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 617/3 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.117 kN
Outside diameter	6 mm	Basic static load rating	0.036 kN
Width	2 mm	Limiting speed	110 000 r/min
		Reference speed	170 000 r/min

Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	3 mm	Bore diameter
D	6 mm	Outside diameter
В	2 mm	Width
d ₁	≈ 3.7 mm	Shoulder diameter
D_1	≈ 4.9 mm	Shoulder diameter
D_2	≈ 4.9 mm	Recess diameter
D ₃	7.2 mm	Flange diameter
С	0.6 mm	Flange width
r _{1,2}	min. 0.1 mm	Chamfer dimension

Abutment dimensions

d_a	min. 3.6 mm	Diameter of shaft abutment
r _a	max. 0.1 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.117 kN
Basic static load rating	C ₀	0.036 kN
Fatigue load limit	P _u	0.002 kN
Reference speed		170 000 r/min
Limiting speed		110 000 r/min
Minimum load factor	k _r	0.015



Calculation factor	f ₀	7.1
Mass		
Mass bearing		0.0003 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 617/5

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.174 kN
Outside diameter	8 mm	Basic static load rating	0.061 kN
Width	2 mm	Limiting speed	85 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without







Dimensions

d	5 mm	Bore diameter
D	8 mm	Outside diameter
В	2 mm	Width
d ₁	≈ 5.75 mm	Shoulder diameter
D_1	≈ 7.25 mm	Shoulder diameter
r _{1,2}	min. 0.1 mm	Chamfer dimension

Abutment dimensions



d _a	min. 5.6 mm	Diameter of shaft abutment
D _a	max. 7.4 mm	Diameter of housing abutment
r _a	max. 0.1 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	0.174 kN
Basic static load rating	C ₀	0.061 kN
Fatigue load limit	P _u	0.003 kN
Reference speed		140 000 r/min
Limiting speed		85 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.7



Mass bearing

0.0003 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 617/5 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.174 kN
Outside diameter	8 mm	Basic static load rating	0.061 kN
Width	2 mm	Limiting speed	85 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	5 mm	Bore diameter
D	8 mm	Outside diameter
В	2 mm	Width
d ₁	≈ 5.75 mm	Shoulder diameter
D_1	≈ 7.25 mm	Shoulder diameter
D_2	≈ 7.25 mm	Recess diameter
D ₃	9.2 mm	Flange diameter
С	0.6 mm	Flange width
r _{1,2}	min. 0.1 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 5.6 mm	Diameter of shaft abutment
r _a	max. 0.1 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.174 kN
Basic static load rating	C ₀	0.061 kN
Fatigue load limit	P _u	0.003 kN
Reference speed		140 000 r/min
Limiting speed		85 000 r/min
Minimum load factor	k _r	0.015



Calculation factor	f ₀	7.7
Mass		
Mass bearing		0.0003 kg
l olerance class		
		N

Dimensional tolerances	Normal
Radial run-out	Normal



W 617/6

KF

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.286 kN
Outside diameter	10 mm	Basic static load rating	0.112 kN
Width	2.5 mm	Limiting speed	75 000 r/min
		Reference speed	120 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	6 mm	Bore diameter
D	10 mm	Outside diameter
В	2.5 mm	Width
d ₁	≈ 7.04 mm	Shoulder diameter
D_1	≈ 8.9 mm	Shoulder diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a min. 6.9 mm	Diameter of shaft abutment
D _a max. 9 mm	Diameter of housing abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Da

d,

Basic dynamic load rating	С	0.286 kN
Basic static load rating	CO	0.112 kN
Fatigue load limit	Pu	0.005 kN
Reference speed		120 000 r/min
Limiting speed		75 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.9



Mass bearing

0.0006 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 617/6 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.286 kN
Outside diameter	10 mm	Basic static load rating	0.112 kN
Width	2.5 mm	Limiting speed	75 000 r/min
		Reference speed	120 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	6 mm	Bore diameter
D	10 mm	Outside diameter
В	2.5 mm	Width
d_1	≈ 7.04 mm	Shoulder diameter
D_1	≈ 8.9 mm	Shoulder diameter
D_2	≈ 8.9 mm	Recess diameter
D ₃	11.2 mm	Flange diameter
С	0.6 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 6.9 mm	Diameter of shaft abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.286 kN
Basic static load rating	C ₀	0.112 kN
Fatigue load limit	P _u	0.005 kN
Reference speed		120 000 r/min
Limiting speed		75 000 r/min
Minimum load factor	k _r	0.015



Calculation factor	f ₀	7.9
Mass		
Mass bearing		0.0007 kg
Tolerance class		

Dimensional tolerances	No	rmal
Radial run-out	No	rmal



W 618/1 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	1 mm	Basic dynamic load rating	0.052 kN
Outside diameter	3 mm	Basic static load rating	0.012 kN
Width	1 mm	Limiting speed	150 000 r/min
		Reference speed	240 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	1 mm	Bore diameter
D	3 mm	Outside diameter
В	1 mm	Width
d_1	≈ 1.55 mm	Shoulder diameter
D_1	≈ 2.46 mm	Shoulder diameter
D ₂	≈ 2.46 mm	Recess diameter
D ₃	3.8 mm	Flange diameter
С	0.3 mm	Flange width
r _{1,2}	min. 0.05 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 1.4 mm	Diameter of shaft abutment
r _a	max. 0.05 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.052 kN
Basic static load rating	C _O	0.012 kN
Fatigue load limit	P _u	0.001 kN
Reference speed		240 000 r/min
Limiting speed		150 000 r/min
Minimum load factor	k _r	0.02



Calculation factor	f ₀	5.6
N4		
Mass		
Mass bearing		0.00004 kg
Tolerance class		
		Newsel

Dimensional tolerances	Normal
Radial run-out	Normal


W 618/2.5

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.117 kN
Outside diameter	6 mm	Basic static load rating	0.036 kN
Width	1.8 mm	Limiting speed	110 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without







Dimensions

d	2.5 mm	Bore diameter
D	6 mm	Outside diameter
В	1.8 mm	Width
d ₁	≈ 3.7 mm	Shoulder diameter
D_1	≈ 4.9 mm	Shoulder diameter
r _{1,2}	min. 0.08 mm	Chamfer dimension

Abutment dimensions

\cap			
	1		
	da		
\frown			

d _a	min. 3.1 mm	Diameter of shaft abutment
D _a	max. 5.4 mm	Diameter of housing abutment
r _a	max. 0.08 mm	Radius of shaft or housing fillet

Calculation data

Da

Basic dynamic load rating	С	0.117 kN
Basic static load rating	C ₀	0.036 kN
Fatigue load limit	Pu	0.002 kN
Reference speed		170 000 r/min
Limiting speed		110 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1



Mass bearing

0.0002 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 618/2.5 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.117 kN
Outside diameter	6 mm	Basic static load rating	0.036 kN
Width	1.8 mm	Limiting speed	110 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	2.5 mm	Bore diameter
D	6 mm	Outside diameter
В	1.8 mm	Width
d_1	≈ 3.7 mm	Shoulder diameter
D_1	≈ 4.9 mm	Shoulder diameter
D_2	≈ 4.9 mm	Recess diameter
D ₃	7.1 mm	Flange diameter
С	0.5 mm	Flange width
r _{1,2}	min. 0.08 mm	Chamfer dimension

Abutment dimensions

d_a	min. 3.1 mm	Diameter of shaft abutment
r _a	max. 0.08 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.117 kN
Basic static load rating	C ₀	0.036 kN
Fatigue load limit	P _u	0.002 kN
Reference speed		170 000 r/min
Limiting speed		110 000 r/min
Minimum load factor	k _r	0.02



Calculation factor	f ₀	7.1
Mass		
Mass bearing		0.0003 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 618/3

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.178 kN
Outside diameter	7 mm	Basic static load rating	0.057 kN
Width	2 mm	Limiting speed	100 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 618/5

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.403 kN
Outside diameter	11 mm	Basic static load rating	0.143 kN
Width	3 mm	Limiting speed	75 000 r/min
		Reference speed	120 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without







Dimensions

d	5 mm	Bore diameter
D	11 mm	Outside diameter
В	3 mm	Width
d_1	≈ 6.81 mm	Shoulder diameter
D_1	≈ 9.19 mm	Shoulder diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

	r _a	r _a	Á	
D _a			da	
,				

d _a	min. 6.2 mm	Diameter of shaft abutment
D _a	max. 9.8 mm	Diameter of housing abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	0.403 kN
Basic static load rating	CO	0.143 kN
Fatigue load limit	Pu	0.006 kN
Reference speed		120 000 r/min
Limiting speed		75 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1



Mass bearing

0.0012 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 618/6

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.618 kN
Outside diameter	13 mm	Basic static load rating	0.224 kN
Width	3.5 mm	Limiting speed	67 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	6 mm	Bore diameter
D	13 mm	Outside diameter
В	3.5 mm	Width
d_1	≈ 8 mm	Shoulder diameter
D_1	≈ 11 mm	Shoulder diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

	r _a	
D _a		d _a
		.

d _a	min. 7.2 mm	Diameter of shaft abutment
D _a	max. 11.8 mm	Diameter of housing abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	0.618 kN
Basic static load rating	C ₀	0.224 kN
Fatigue load limit	Pu	0.01 kN
Reference speed		110 000 r/min
Limiting speed		67 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7



Mass bearing

0.0018 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 618/6 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.618 kN
Outside diameter	13 mm	Basic static load rating	0.224 kN
Width	3.5 mm	Limiting speed	67 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	6 mm	Bore diameter
D	13 mm	Outside diameter
В	3.5 mm	Width
d_1	≈ 8 mm	Shoulder diameter
D_1	≈11 mm	Shoulder diameter
D_2	≈ 11 mm	Recess diameter
D ₃	15 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 7.2 mm	Diameter of shaft abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.618 kN
Basic static load rating	C ₀	0.224 kN
Fatigue load limit	Pu	0.01 kN
Reference speed		110 000 r/min
Limiting speed		67 000 r/min
Minimum load factor	k _r	0.02



Calculation factor	f ₀	7
Mass		
Mass bearing		0.0021 kg
I olerance class		

Dimensional tolerances	Normal
Radial run-out	Normal



W 618/1

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	1 mm	Basic dynamic load rating	0.052 kN
Outside diameter	3 mm	Basic static load rating	0.012 kN
Width	1 mm	Limiting speed	150 000 r/min
		Reference speed	240 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 619/2.5

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.221 kN
Outside diameter	7 mm	Basic static load rating	0.067 kN
Width	2.5 mm	Limiting speed	100 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without







Dimensions

d	2.5 mm	Bore diameter
D	7 mm	Outside diameter
В	2.5 mm	Width
d_1	≈ 3.85 mm	Shoulder diameter
D_1	≈ 5.65 mm	Shoulder diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a min. 3.7 mm	Diameter of shaft abutment
D _a max. 5.8 mm	Diameter of housing abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Da

d,

Basic dynamic load rating	С	0.221 kN
Basic static load rating	C ₀	0.067 kN
Fatigue load limit	P _u	0.003 kN
Reference speed		160 000 r/min
Limiting speed		100 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f _O	6.6



Mass bearing

0.0004 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/2.5 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.221 kN
Outside diameter	7 mm	Basic static load rating	0.067 kN
Width	2.5 mm	Limiting speed	100 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	2.5 mm	Bore diameter
D	7 mm	Outside diameter
В	2.5 mm	Width
d_1	≈ 3.85 mm	Shoulder diameter
D_1	≈ 5.65 mm	Shoulder diameter
D ₂	≈ 5.65 mm	Recess diameter
D ₃	8.5 mm	Flange diameter
С	0.7 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d_a	min. 3.3 mm	Diameter of shaft abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.221 kN
Basic static load rating	C ₀	0.067 kN
Fatigue load limit	Pu	0.003 kN
Reference speed		160 000 r/min
Limiting speed		100 000 r/min
Minimum load factor	k _r	0.025



Calculation factor	f ₀	6.6
N 4		
Mass		
Mass bearing		0.0006 kg
l olerance class		
		NI I

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/5

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	13 mm	Basic static load rating	0.335 kN
Width	4 mm	Limiting speed	70 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without







Dimensions

d	5 mm	Bore diameter
D	13 mm	Outside diameter
В	4 mm	Width
d ₂	≈ 6.6 mm	Recess diameter
D ₂	≈11.2 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a min. 6.3 mm	Diameter of shaft abutment
D _a max. 11.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Da

da

Basic dynamic load rating	С	0.761 kN
Basic static load rating	CO	0.335 kN
Fatigue load limit	Pu	0.014 kN
Reference speed		110 000 r/min
Limiting speed		70 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	10.5



Mass bearing

0.0021 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/5-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	13 mm	Basic static load rating	0.335 kN
Width	4 mm	Limiting speed	32 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

d	5 mm	Bore diameter
D	13 mm	Outside diameter
В	4 mm	Width
d ₂	≈6.6 mm	Recess diameter
D ₂	≈11.2 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a	min. 6.3 mm	Diameter of shaft abutment
d _a	max. 6.5 mm	Diameter of shaft abutment
D _a	max. 11.4 mm	Diameter of housing abutment
r _a	max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Da

da

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.335 kN
Fatigue load limit	P _u	0.014 kN
Limiting speed		32 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	10.5



Mass bearing

0.0023 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/5-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	13 mm	Basic static load rating	0.335 kN
Width	4 mm	Limiting speed	56 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	5 mm	Bore diameter
D	13 mm	Outside diameter
В	4 mm	Width
d ₂	≈6.6 mm	Recess diameter
D ₂	≈11.2 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension



	r _a	
Da		d _a
,		

d _a min. 6.3 mm	Diameter of shaft abutment
d _a max. 6.5 mm	Diameter of shaft abutment
D _a max. 11.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.335 kN
Fatigue load limit	P _u	0.014 kN
Reference speed		110 000 r/min
Limiting speed		56 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	10.5



Mass bearing

0.0023 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/5 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	13 mm	Basic static load rating	0.335 kN
Width	4 mm	Limiting speed	70 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	5 mm	Bore diameter
D	13 mm	Outside diameter
В	4 mm	Width
d ₂	≈ 6.6 mm	Recess diameter
D ₂	≈ 11.2 mm	Recess diameter
D_3	15 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a min. 6.3 mm	Diameter of shaft abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet



Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.335 kN
Fatigue load limit	Pu	0.014 kN
Reference speed		110 000 r/min
Limiting speed		70 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	10.5



Mass bearing

0.0024 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/5 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	13 mm	Basic static load rating	0.335 kN
Width	4 mm	Limiting speed	32 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides




Dimensions

d	5 mm	Bore diameter
D	13 mm	Outside diameter
В	4 mm	Width
d ₂	≈ 6.6 mm	Recess diameter
D ₂	≈ 11.2 mm	Recess diameter
D ₃	15 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a min. 6.3 mm	Diameter of shaft abutment
d _a max. 6.5 mm	Diameter of shaft abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.335 kN
Fatigue load limit	P _u	0.014 kN
Limiting speed		32 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	10.5



Mass bearing

0.0026 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/5 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	13 mm	Basic static load rating	0.335 kN
Width	4 mm	Limiting speed	56 000 r/min

Reference speed	110 000 r/min
nererence spece	110 000 1/1111

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact





Dimensions

d	5 mm	Bore diameter
D	13 mm	Outside diameter
В	4 mm	Width
d ₂	≈ 6.6 mm	Recess diameter
D ₂	≈ 11.2 mm	Recess diameter
D ₃	15 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a min. 6.3 mm	Diameter of shaft abutment
d _a max. 6.5 mm	Diameter of shaft abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.335 kN
Fatigue load limit	Pu	0.014 kN
Reference speed		110 000 r/min
Limiting speed		56 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	10.5



Mass bearing

0.0026 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/5 X-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.761 kN
Outside diameter	13 mm	Basic static load rating	0.335 kN
Width	5 mm	Limiting speed	56 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	5 mm	Bore diameter
D	13 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.6 mm	Recess diameter
D ₂	≈11.2 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension



d _a min. 6.3 mm	Diameter of shaft abutment
d _a max. 6.5 mm	Diameter of shaft abutment
D _a max. 11.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Da

da

Basic dynamic load rating	С	0.761 kN
Basic static load rating	CO	0.335 kN
Fatigue load limit	Pu	0.014 kN
Reference speed		110 000 r/min
Limiting speed		56 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	10.5



Mass bearing

0.0029 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/6

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.761 kN
Outside diameter	15 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	63 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without







Dimensions

d	6 mm	Bore diameter
D	15 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a min. 7.3 mm	Diameter of shaft abutment
D _a max. 13.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Da

da

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.265 kN
Fatigue load limit	P _u	0.011 kN
Reference speed		100 000 r/min
Limiting speed		63 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	6.8



Mass bearing

0.0035 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/6-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.761 kN
Outside diameter	15 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	30 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

d	6 mm	Bore diameter
D	15 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension



d _a min. 7.3 mm	Diameter of shaft abutment
d _a max. 7.4 mm	Diameter of shaft abutment
D _a max. 13.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.265 kN
Fatigue load limit	P _u	0.011 kN
Limiting speed		30 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f _O	6.8





Mass bearing

0.0038 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/6-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.761 kN
Outside diameter	15 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	50 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	6 mm	Bore diameter
D	15 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension



d _a min. 7.3 mm	Diameter of shaft abutment
d _a max. 7.4 mm	Diameter of shaft abutment
D _a max. 13.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Da

 d_a

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.265 kN
Fatigue load limit	Pu	0.011 kN
Reference speed		100 000 r/min
Limiting speed		50 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	6.8



Mass bearing

0.0039 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/6 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.761 kN
Outside diameter	15 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	63 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	6 mm	Bore diameter
D	15 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13 mm	Recess diameter
D_3	17 mm	Flange diameter
С	1.2 mm	Flange width
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a min. 7.3 mm	Diameter of shaft abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.265 kN
Fatigue load limit	P _u	0.011 kN
Reference speed		100 000 r/min
Limiting speed		63 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	6.8



Mass bearing

0.0039 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/6 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.761 kN
Outside diameter	15 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	30 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides





Dimensions

d	6 mm	Bore diameter
D	15 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13 mm	Recess diameter
D ₃	17 mm	Flange diameter
С	1.2 mm	Flange width
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 7.3 mm	Diameter of shaft abutment
d _a	max. 7.4 mm	Diameter of shaft abutment
r _a	max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C _O	0.265 kN
Fatigue load limit	P _u	0.011 kN
Limiting speed		30 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	6.8



Mass bearing

0.0043 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/6 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.761 kN
Outside diameter	15 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	50 000 r/min

Reference s	peed	100	000	r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact





Dimensions

d	6 mm	Bore diameter
D	15 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13 mm	Recess diameter
D ₃	17 mm	Flange diameter
С	1.2 mm	Flange width
r _{1,2}	min. 0.2 mm	Chamfer dimension

Abutment dimensions

d _a min. 7.3 mm	Diameter of shaft abutment
d _a max. 7.4 mm	Diameter of shaft abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.265 kN
Fatigue load limit	Pu	0.011 kN
Reference speed		100 000 r/min
Limiting speed		50 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	6.8



Mass bearing

0.0043 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/6 X-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.761 kN
Outside diameter	16 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	30 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

d	6 mm	Bore diameter
D	16 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension



d _a min. 7.3 mm	Diameter of shaft abutment
d _a max. 7.4 mm	Diameter of shaft abutment
D _a max. 14.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C ₀	0.265 kN
Fatigue load limit	Pu	0.011 kN
Limiting speed		30 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	6.8



Mass bearing

0.0048 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 619/6 X-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	6 mm	Basic dynamic load rating	0.761 kN
Outside diameter	16 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	50 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	6 mm	Bore diameter
D	16 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension



d _a min. 7.3 mm	Diameter of shaft abutment
d _a max. 7.4 mm	Diameter of shaft abutment
D _a max. 14.4 mm	Diameter of housing abutment
r _a max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Da

 d_a

Basic dynamic load rating	С	0.761 kN
Basic static load rating	C _O	0.265 kN
Fatigue load limit	P _u	0.011 kN
Reference speed		100 000 r/min
Limiting speed		50 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	6.8



Mass bearing

0.0048 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 623-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.358 kN
Outside diameter	10 mm	Basic static load rating	0.11 kN
Width	4 mm	Limiting speed	40 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 623-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.358 kN
Outside diameter	10 mm	Basic static load rating	0.11 kN
Width	4 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides


W 623

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.358 kN
Outside diameter	10 mm	Basic static load rating	0.11 kN
Width	4 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 623 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.358 kN
Outside diameter	10 mm	Basic static load rating	0.11 kN
Width	4 mm	Limiting speed	40 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



W 623 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.358 kN
Outside diameter	10 mm	Basic static load rating	0.11 kN
Width	4 mm	Limiting speed	70 000 r/min

Reference speed 140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 623 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.358 kN
Outside diameter	10 mm	Basic static load rating	0.11 kN
Width	4 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 624-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.741 kN
Outside diameter	13 mm	Basic static load rating	0.25 kN
Width	5 mm	Limiting speed	32 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 624-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.741 kN
Outside diameter	13 mm	Basic static load rating	0.25 kN
Width	5 mm	Limiting speed	56 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 624 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.741 kN
Outside diameter	13 mm	Basic static load rating	0.25 kN
Width	5 mm	Limiting speed	32 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



W 624 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.741 kN
Outside diameter	13 mm	Basic static load rating	0.25 kN
Width	5 mm	Limiting speed	56 000 r/min

Reference speed 110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 624 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.741 kN
Outside diameter	13 mm	Basic static load rating	0.25 kN
Width	5 mm	Limiting speed	70 000 r/min
		Reference speed	110 000 r/min

Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 625

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	1.43 kN
Outside diameter	16 mm	Basic static load rating	0.63 kN
Width	5 mm	Limiting speed	63 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without







Dimensions

d	5 mm	Bore diameter
D	16 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈ 13.4 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

r _a	da	

d _a	min. 7 mm	Diameter of shaft abutment
D _a	max. 14 mm	Diameter of housing abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Da

Basic dynamic load rating	С	1.43 kN
Basic static load rating	C ₀	0.63 kN
Fatigue load limit	Pu	0.027 kN
Reference speed		100 000 r/min
Limiting speed		63 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.8



Mass

Mass bearing

0.0044 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 625-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	1.43 kN
Outside diameter	16 mm	Basic static load rating	0.63 kN
Width	5 mm	Limiting speed	28 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

d	5 mm	Bore diameter
D	16 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13.4 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension



Calculation data

Da

da

Basic dynamic load rating	С	1.43 kN
Basic static load rating	C ₀	0.63 kN
Fatigue load limit	Pu	0.027 kN
Limiting speed		28 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.8



Mass

Mass bearing

0.0049 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 625-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	1.43 kN
Outside diameter	16 mm	Basic static load rating	0.63 kN
Width	5 mm	Limiting speed	50 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	5 mm	Bore diameter
D	16 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈ 13.4 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension



d _a min. 7 mm	Diameter of shaft abutment
d _a max. 7.4 mm	Diameter of shaft abutment
D _a max. 14 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Da

da

Basic dynamic load rating	С	1.43 kN
Basic static load rating	C ₀	0.63 kN
Fatigue load limit	Pu	0.027 kN
Reference speed		100 000 r/min
Limiting speed		50 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.8



Mass

Mass bearing

0.0049 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 625-2Z/VT378



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	1.43 kN
Outside diameter	16 mm	Basic static load rating	0.63 kN
Width	5 mm	Limiting speed	50 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



Dimensions

Bore diameter	d	5 mm
Outside diameter	D	16 mm
Width	В	5 mm
Shoulder diameter	d ₁	≈ 8.55 mm
Recess diameter	d ₂	≈ 7.5 mm
Shoulder diameter	D_1	≈ 12.5 mm
Recess diameter	D ₂	≈ 13.4 mm
Chamfer dimension	r _{1,2}	min. 0.3 mm

Abutment dimensions

Diameter of shaft abutment	d _a	min. 7 mm
Diameter of shaft abutment	d _a	max. 7.4 mm
Diameter of housing abutment	D _a	max. 14 mm
Radius of shaft or housing fillet	r _a	max. 0.3 mm

Calculation data

Basic dynamic load rating	С	1.43 kN
Basic static load rating	C ₀	0.63 kN
Fatigue load limit	P _u	0.027 kN
Reference speed		100 000 r/min
Limiting speed		50 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.8

Mass

Mass bearing	0.0049 k	g



W 625-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	1.43 kN
Outside diameter	16 mm	Basic static load rating	0.63 kN
Width	5 mm	Limiting speed	50 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	5 mm	Bore diameter
D	16 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈ 13.4 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension



d _a min. 7 mm	Diameter of shaft abutment
d _a max. 7.4 mm	Diameter of shaft abutment
D _a max. 14 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Da

da

Basic dynamic load rating	С	1.43 kN
Basic static load rating	C ₀	0.63 kN
Fatigue load limit	Pu	0.027 kN
Reference speed		100 000 r/min
Limiting speed		50 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.8



Mass

Mass bearing

0.0049 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 625 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	1.43 kN
Outside diameter	16 mm	Basic static load rating	0.63 kN
Width	5 mm	Limiting speed	63 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	5 mm	Bore diameter
D	16 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13.4 mm	Recess diameter
D_3	18 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a min. 7 mm	Diameter of shaft abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	1.43 kN
Basic static load rating	C ₀	0.63 kN
Fatigue load limit	P _u	0.027 kN
Reference speed		100 000 r/min
Limiting speed		63 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.8



Mass

Mass bearing

0.0049 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 625 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	1.43 kN
Outside diameter	16 mm	Basic static load rating	0.63 kN
Width	5 mm	Limiting speed	28 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides





Dimensions

d	5 mm	Bore diameter
D	16 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 7.5 mm	Recess diameter
D ₂	≈13.4 mm	Recess diameter
D ₃	18 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 7 mm	Diameter of shaft abutment
d _a	max. 7.4 mm	Diameter of shaft abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	1.43 kN
Basic static load rating	C ₀	0.63 kN
Fatigue load limit	Pu	0.027 kN
Limiting speed		28 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	11.8





Mass

Mass bearing

0.0053 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 627/4-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.143 kN
Outside diameter	7 mm	Basic static load rating	0.053 kN
Width	2.5 mm	Limiting speed	75 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 627/4 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.143 kN
Outside diameter	7 mm	Basic static load rating	0.053 kN
Width	2.5 mm	Limiting speed	75 000 r/min

Reference speed	150 000 r/min
nererence speca	100 000 1/1111

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact



W 627/5-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.121 kN
Outside diameter	8 mm	Basic static load rating	0.045 kN
Width	2.5 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	5 mm	Bore diameter
D	8 mm	Outside diameter
В	2.5 mm	Width
d_1	≈ 5.8 mm	Shoulder diameter
d ₂	≈ 5.8 mm	Recess diameter
D ₂	≈ 7.5 mm	Recess diameter
r _{1,2}	min. 0.1 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 5.6 mm	Diameter of shaft abutment
d _a	max. 5.7 mm	Diameter of shaft abutment
D _a	max. 7.5 mm	Diameter of housing abutment
r _a	max. 0.1 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	0.121 kN
Basic static load rating	C _O	0.045 kN
Fatigue load limit	Pu	0.002 kN
Reference speed		140 000 r/min
Limiting speed		70 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.8



Mass

Mass bearing

0.000407 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 627/5-2ZS



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.121 kN
Outside diameter	8 mm	Basic static load rating	0.045 kN
Width	2.5 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides




Dimensions

d	5 mm	Bore diameter
D	8 mm	Outside diameter
В	2.5 mm	Width
d_1	≈ 5.8 mm	Shoulder diameter
d ₂	≈ 5.8 mm	Recess diameter
D_2	≈ 7.4 mm	Recess diameter
r _{1,2}	min. 0.1 mm	Chamfer dimension

Abutment dimensions

d _a	min. 5.6 mm	Diameter of shaft abutment
d _a	max. 5.7 mm	Diameter of shaft abutment
D _a	max. 7.5 mm	Diameter of housing abutment
r _a	max. 0.1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.121 kN
Basic static load rating	C ₀	0.045 kN
Fatigue load limit	Pu	0.002 kN
Reference speed		140 000 r/min
Limiting speed		70 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.8



Mass

Mass bearing

0.000407 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 627/5 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.121 kN
Outside diameter	8 mm	Basic static load rating	0.045 kN
Width	2.5 mm	Limiting speed	70 000 r/min

Reference speed 140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact







d	5 mm	Bore diameter
D	8 mm	Outside diameter
В	2.5 mm	Width
d_1	≈ 5.8 mm	Shoulder diameter
D ₂	≈ 7.5 mm	Recess diameter
D ₃	9.2 mm	Flange diameter
С	0.6 mm	Flange width
r _{1,2}	min. 0.1 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 5.6 mm	Diameter of shaft abutment
d_{a}	max. 5.7 mm	Diameter of shaft abutment
r _a	max. 0.1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.121 kN
Basic static load rating	C ₀	0.045 kN
Fatigue load limit	Pu	0.002 kN
Reference speed		140 000 r/min
Limiting speed		70 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.8



Mass

Mass bearing

0.000407 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 628/5-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.403 kN
Outside diameter	11 mm	Basic static load rating	0.143 kN
Width	4 mm	Limiting speed	34 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

Abutment dimensions

d	5 mm	Bore diameter
D	11 mm	Outside diameter
В	4 mm	Width
d_1	≈ 6.81 mm	Shoulder diameter
d ₂	≈ 6.81 mm	Recess diameter
D_2	≈ 9.9 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

d_a min. 6.2 mm d_a max. 6.7 mm

d _a min. 6.2 mm	Diameter of shaft abutment
d _a max. 6.7 mm	Diameter of shaft abutment
D _a max. 10 mm	Diameter of housing abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Da

da

Basic dynamic load rating	С	0.403 kN
Basic static load rating	C ₀	0.143 kN
Fatigue load limit	Pu	0.006 kN
Limiting speed		34 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1



Mass

Mass bearing

0.0015 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 628/5 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.403 kN
Outside diameter	11 mm	Basic static load rating	0.143 kN
Width	4 mm	Limiting speed	60 000 r/min

Reference speed	120 000 r/min
Nererence speed	120 000 1/1111

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact







d	5 mm	Bore diameter
D	11 mm	Outside diameter
В	4 mm	Width
d ₁	≈ 6.81 mm	Shoulder diameter
D ₂	≈ 9.9 mm	Recess diameter
D ₃	12.6 mm	Flange diameter
С	0.8 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a min. 6.2 mm	Diameter of shaft abutment
d _a max. 6.7 mm	Diameter of shaft abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.403 kN
Basic static load rating	C ₀	0.143 kN
Fatigue load limit	Pu	0.006 kN
Reference speed		120 000 r/min
Limiting speed		60 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1



Mass

Mass bearing

0.0017 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 630/2.5-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.312 kN
Outside diameter	8 mm	Basic static load rating	0.088 kN
Width	4 mm	Limiting speed	80 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 630/2.5 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.312 kN
Outside diameter	8 mm	Basic static load rating	0.088 kN
Width	4 mm	Limiting speed	80 000 r/min

Reference speed	160	000	r/min
			.,

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact





Dimensions

d	2.5 mm	Bore diameter
D	8 mm	Outside diameter
В	4 mm	Width
d_1	≈ 4.1 mm	Shoulder diameter
D_2	≈ 7.04 mm	Recess diameter
D ₃	9.5 mm	Flange diameter
С	0.9 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 3.7 mm	Diameter of shaft abutment
d _a	max. 4 mm	Diameter of shaft abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.312 kN
Basic static load rating	C ₀	0.088 kN
Fatigue load limit	P _u	0.004 kN
Reference speed		160 000 r/min
Limiting speed		80 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f ₀	5.9



Mass

Mass bearing

0.001 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 633-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.741 kN
Outside diameter	13 mm	Basic static load rating	0.25 kN
Width	5 mm	Limiting speed	32 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 633-2Z



Stainless steel deep groove ball bearing with integral sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.741 kN
Outside diameter	13 mm	Basic static load rating	0.25 kN
Width	5 mm	Limiting speed	56 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 633

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.741 kN
Outside diameter	13 mm	Basic static load rating	0.25 kN
Width	5 mm	Limiting speed	70 000 r/min
		Reference speed	110 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 634

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.761 kN
Outside diameter	16 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	63 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 634-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.761 kN
Outside diameter	16 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	30 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 634-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.761 kN
Outside diameter	16 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	50 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 634 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.761 kN
Outside diameter	16 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	63 000 r/min
		Reference speed	100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 634 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.761 kN
Outside diameter	16 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	30 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



W 634 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.761 kN
Outside diameter	16 mm	Basic static load rating	0.265 kN
Width	5 mm	Limiting speed	50 000 r/min

Reference speed 100 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact



W 635-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	2.03 kN
Outside diameter	19 mm	Basic static load rating	0.88 kN
Width	6 mm	Limiting speed	24 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

d	5 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.5 mm	Recess diameter
D ₂	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension



d _a min. 7 mm	Diameter of shaft abutment
d _a max. 8.4 mm	Diameter of shaft abutment
D _a max. 17 mm	Diameter of housing abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	2.03 kN
Basic static load rating	C ₀	0.88 kN
Fatigue load limit	P _u	0.038 kN
Limiting speed		24 000 r/min
Minimum load factor	k _r	0.035
Calculation factor	f ₀	12.1





Mass

Mass bearing

0.0081 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 635-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	2.03 kN
Outside diameter	19 mm	Basic static load rating	0.88 kN
Width	6 mm	Limiting speed	43 000 r/min
		Reference speed	85 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	5 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.5 mm	Recess diameter
D ₂	≈16.5 mm	Recess diameter
r _{1,2}	min. 0.3 mm	Chamfer dimension



łX
ł×
ł×

l _a min. 7 mm	Diameter of shaft abutment
l _a max. 8.4 mm	Diameter of shaft abutment
D _a max. 17 mm	Diameter of housing abutment
a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Da

Basic dynamic load rating	С	2.03 kN
Basic static load rating	C ₀	0.88 kN
Fatigue load limit	Pu	0.038 kN
Reference speed		85 000 r/min
Limiting speed		43 000 r/min
Minimum load factor	k _r	0.035
Calculation factor	f ₀	12.1



Mass

Mass bearing

0.0082 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 635 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	2.03 kN
Outside diameter	19 mm	Basic static load rating	0.88 kN
Width	6 mm	Limiting speed	56 000 r/min
		Reference speed	85 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Dimensions

d	5 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.5 mm	Recess diameter
D ₂	≈16.5 mm	Recess diameter
D_3	22 mm	Flange diameter
С	1.5 mm	Flange width
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d _a min. 7 mm	Diameter of shaft abutment
r _a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	2.03 kN
Basic static load rating	C _O	0.88 kN
Fatigue load limit	P _u	0.038 kN
Reference speed		85 000 r/min
Limiting speed		56 000 r/min
Minimum load factor	k _r	0.035
Calculation factor	f _O	12.1


Mass bearing

0.0086 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 635 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	2.03 kN
Outside diameter	19 mm	Basic static load rating	0.88 kN
Width	6 mm	Limiting speed	24 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides





Dimensions

d	5 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.5 mm	Recess diameter
D ₂	≈16.5 mm	Recess diameter
D ₃	22 mm	Flange diameter
С	1.5 mm	Flange width
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 7 mm	Diameter of shaft abutment
d _a	max. 8.4 mm	Diameter of shaft abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	2.03 kN
Basic static load rating	C ₀	0.88 kN
Fatigue load limit	P _u	0.038 kN
Limiting speed		24 000 r/min
Minimum load factor	k _r	0.035
Calculation factor	f ₀	12.1



Mass bearing

0.0092 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 635 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	2.03 kN
Outside diameter	19 mm	Basic static load rating	0.88 kN
Width	6 mm	Limiting speed	43 000 r/min

Reference speed	85 000 r/min
Nererence spece	05 000 1/1111

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact





Dimensions

d	5 mm	Bore diameter
D	19 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 8.5 mm	Recess diameter
D ₂	≈16.5 mm	Recess diameter
D_3	22 mm	Flange diameter
С	1.5 mm	Flange width
r _{1,2}	min. 0.3 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 7 mm	Diameter of shaft abutment
d _a	max. 8.4 mm	Diameter of shaft abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	2.03 kN
Basic static load rating	C ₀	0.88 kN
Fatigue load limit	P _u	0.038 kN
Reference speed		85 000 r/min
Limiting speed		43 000 r/min
Minimum load factor	k _r	0.035
Calculation factor	f ₀	12.1



Mass bearing

0.0093 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 637/4 X



Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.553 kN
Outside diameter	10 mm	Basic static load rating	0.245 kN
Width	3 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 637/4 X-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.225 kN
Outside diameter	8 mm	Basic static load rating	0.072 kN
Width	3 mm	Limiting speed	75 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 637/5 X-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.247 kN
Outside diameter	9 mm	Basic static load rating	0.085 kN
Width	3 mm	Limiting speed	67 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	5 mm	Bore diameter
D	9 mm	Outside diameter
В	3 mm	Width
d_1	≈ 6 mm	Shoulder diameter
d ₂	≈ 6 mm	Recess diameter
D_2	≈ 8.4 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension



Abutment dimensions

d _a	min. 5.9 mm	Diameter of shaft abutment
d _a	max. 5.9 mm	Diameter of shaft abutment
D _a	max. 8.4 mm	Diameter of housing abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.247 kN
Basic static load rating	CO	0.085 kN
Fatigue load limit	Pu	0.004 kN
Reference speed		130 000 r/min
Limiting speed		67 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.6



Mass bearing

0.000615 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 638/2.5-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.117 kN
Outside diameter	6 mm	Basic static load rating	0.036 kN
Width	2.6 mm	Limiting speed	85 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	2.5 mm	Bore diameter
D	6 mm	Outside diameter
В	2.6 mm	Width
d_1	≈ 3.7 mm	Shoulder diameter
d ₂	≈ 3.7 mm	Recess diameter
D ₂	≈ 5.4 mm	Recess diameter
r _{1,2}	min. 0.08 mm	Chamfer dimension

Abutment dimensions

d_a	min. 3.1 mm	Diameter of shaft abutment
d _a	max. 3.6 mm	Diameter of shaft abutment
D _a	max. 5.5 mm	Diameter of housing abutment
r _a	max. 0.08 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	0.117 kN
Basic static load rating	C ₀	0.036 kN
Fatigue load limit	P _u	0.002 kN
Reference speed		170 000 r/min
Limiting speed		85 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f _O	7.1



Mass bearing

0.000305 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 638/2.5 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.117 kN
Outside diameter	6 mm	Basic static load rating	0.036 kN
Width	2.6 mm	Limiting speed	85 000 r/min

Reference speed 170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact





Dimensions

d	2.5 mm	Bore diameter
D	6 mm	Outside diameter
В	2.6 mm	Width
d_1	≈ 3.7 mm	Shoulder diameter
D ₂	≈ 5.4 mm	Recess diameter
D ₃	7.1 mm	Flange diameter
С	0.8 mm	Flange width
r _{1,2}	min. 0.08 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 3.1 mm	Diameter of shaft abutment
d _a	max. 3.6 mm	Diameter of shaft abutment
ra	max. 0.08 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.117 kN
Basic static load rating	C ₀	0.036 kN
Fatigue load limit	Pu	0.002 kN
Reference speed		170 000 r/min
Limiting speed		85 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1



Mass bearing

0.000405 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 638/4-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9 mm	Basic static load rating	0.114 kN
Width	4 mm	Limiting speed	40 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 638/4-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9 mm	Basic static load rating	0.114 kN
Width	4 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 638/4 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9 mm	Basic static load rating	0.114 kN
Width	4 mm	Limiting speed	40 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



W 638/4 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9 mm	Basic static load rating	0.114 kN
Width	4 mm	Limiting speed	70 000 r/min

Reference speed 140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact



W 638/4 X-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.553 kN
Outside diameter	10 mm	Basic static load rating	0.245 kN
Width	4 mm	Limiting speed	36 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 638/4 X-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.553 kN
Outside diameter	10 mm	Basic static load rating	0.245 kN
Width	4 mm	Limiting speed	63 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 638/5-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.403 kN
Outside diameter	11 mm	Basic static load rating	0.143 kN
Width	5 mm	Limiting speed	34 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact





Dimensions

d	5 mm	Bore diameter
D	11 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.2 mm	Recess diameter
D ₂	≈ 9.9 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension



d _a	min. 5.9 mm	Diameter of shaft abutment
d _a	max. 6.1 mm	Diameter of shaft abutment
D _a	max. 10 mm	Diameter of housing abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.403 kN
Basic static load rating	C ₀	0.143 kN
Fatigue load limit	Pu	0.006 kN
Limiting speed		34 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1





Mass bearing

0.0018 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 638/5-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.403 kN
Outside diameter	11 mm	Basic static load rating	0.143 kN
Width	5 mm	Limiting speed	60 000 r/min
		Reference speed	120 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides





Dimensions

d	5 mm	Bore diameter
D	11 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.2 mm	Recess diameter
D ₂	≈ 9.9 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension



	d_a	min. 5.9 mm
4	d _a	max. 6.1 mm
	D _a	max. 10 mm
d _a	r _a	max. 0.15 mm

l _a min. 5.9 mm	Diameter of shaft abutment
l _a max. 6.1 mm	Diameter of shaft abutment
) _a max. 10 mm	Diameter of housing abutment

Radius of shaft or housing

Calculation data

Da

Basic dynamic load rating	С	0.403 kN
Basic static load rating	CO	0.143 kN
Fatigue load limit	Pu	0.006 kN
Reference speed		120 000 r/min
Limiting speed		60 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1



Mass bearing

0.0018 kg

Dimensional tolerances	Normal
Radial run-out	Normal



W 638/5 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.403 kN
Outside diameter	11 mm	Basic static load rating	0.143 kN
Width	5 mm	Limiting speed	34 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



Sealing type

Contact





Dimensions

d	5 mm	Bore diameter
D	11 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.2 mm	Recess diameter
D ₂	≈ 9.9 mm	Recess diameter
D ₃	12.5 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a min. 5.9 mm	Diameter of shaft abutment
d _a max. 6.1 mm	Diameter of shaft abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.403 kN
Basic static load rating	C ₀	0.143 kN
Fatigue load limit	P _u	0.006 kN
Limiting speed		34 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1


Mass

Mass bearing

0.002 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 638/5 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	5 mm
Outside diameter	11 mm
Width	5 mm

Performance

Basic dynamic load rating	0.403 kN
Basic static load rating	0.143 kN
Limiting speed	60 000 r/min
Reference speed	120 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact



Technical Specification



Dimensions

d	5 mm	Bore diameter
D	11 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.2 mm	Recess diameter
D ₂	≈ 9.9 mm	Recess diameter
D ₃	12.5 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a min. 5.9 mm	Diameter of shaft abutment
d _a max. 6.1 mm	Diameter of shaft abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.403 kN
Basic static load rating	C ₀	0.143 kN
Fatigue load limit	Pu	0.006 kN
Reference speed		120 000 r/min
Limiting speed		60 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1



Mass

Mass bearing

0.002 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



W 617/2

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

ikf

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.068 kN
Outside diameter	4 mm	Basic static load rating	0.019 kN
Width	1.2 mm	Limiting speed	130 000 r/min
		Reference speed	200 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 617/4



Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.178 kN
Outside diameter	7 mm	Basic static load rating	0.057 kN
Width	2 mm	Limiting speed	95 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 617/4 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.178 kN
Outside diameter	7 mm	Basic static load rating	0.057 kN
Width	2 mm	Limiting speed	95 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 617/4 X



Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.225 kN
Outside diameter	8 mm	Basic static load rating	0.072 kN
Width	2 mm	Limiting speed	90 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 618/2

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.094 kN
Outside diameter	5 mm	Basic static load rating	0.025 kN
Width	1.5 mm	Limiting speed	120 000 r/min
		Reference speed	200 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 618/2 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.094 kN
Outside diameter	5 mm	Basic static load rating	0.025 kN
Width	1.5 mm	Limiting speed	120 000 r/min
		Reference speed	200 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 618/2 X

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.094 kN
Outside diameter	5 mm	Basic static load rating	0.025 kN
Width	2 mm	Limiting speed	120 000 r/min
		Reference speed	200 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 618/2 XR

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.094 kN
Outside diameter	5 mm	Basic static load rating	0.025 kN
Width	2 mm	Limiting speed	120 000 r/min
		Reference speed	200 000 r/min

Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 618/4

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9 mm	Basic static load rating	0.114 kN
Width	2.5 mm	Limiting speed	85 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 619/2

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.19 kN
Outside diameter	6 mm	Basic static load rating	0.051 kN
Width	2.3 mm	Limiting speed	110 000 r/min
		Reference speed	180 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 619/2 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.19 kN
Outside diameter	6 mm	Basic static load rating	0.051 kN
Width	2.3 mm	Limiting speed	110 000 r/min
		Reference speed	180 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 619/2 X-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.19 kN
Outside diameter	6 mm	Basic static load rating	0.051 kN
Width	2.5 mm	Limiting speed	90 000 r/min
		Reference speed	180 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 619/2 X

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.19 kN
Outside diameter	6 mm	Basic static load rating	0.051 kN
Width	2.5 mm	Limiting speed	110 000 r/min
		Reference speed	180 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 619/2 XR-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.19 kN
Outside diameter	6 mm	Basic static load rating	0.051 kN
Width	2.5 mm	Limiting speed	90 000 r/min

Reference speed 180 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 619/2 XR

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.19 kN
Outside diameter	6 mm	Basic static load rating	0.051 kN
Width	2.5 mm	Limiting speed	110 000 r/min
		Reference speed	180 000 r/min

Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 619/3-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.225 kN
Outside diameter	8 mm	Basic static load rating	0.072 kN
Width	3 mm	Limiting speed	75 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 619/3

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.319 kN
Outside diameter	8 mm	Basic static load rating	0.09 kN
Width	3 mm	Limiting speed	95 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 619/3 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	3 mm
Outside diameter	8 mm
Width	3 mm

Performance

Basic dynamic load rating	0.225 kN
Basic static load rating	0.072 kN
Limiting speed	75 000 r/min
Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 619/3 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.319 kN
Outside diameter	8 mm	Basic static load rating	0.09 kN
Width	3 mm	Limiting speed	95 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 619/4-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	11 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	36 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 619/4-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	11 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	63 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 619/4

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	11 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 619/4 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	11 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	36 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



W 619/4 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	11 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	63 000 r/min

Reference speed 130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 619/4 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.54 kN
Outside diameter	11 mm	Basic static load rating	0.176 kN
Width	4 mm	Limiting speed	80 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



W 627/3-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.117 kN
Outside diameter	6 mm	Basic static load rating	0.036 kN
Width	2.5 mm	Limiting speed	85 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 627/3 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.117 kN
Outside diameter	6 mm	Basic static load rating	0.036 kN
Width	2.5 mm	Limiting speed	85 000 r/min

Reference speed 170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 630/2 R-2ZS



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.221 kN
Outside diameter	7 mm	Basic static load rating	0.067 kN
Width	3.5 mm	Limiting speed	80 000 r/min

Reference speed	160 000 r/m
nererence speca	100 000 1/11

n

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 630/3-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.325 kN
Outside diameter	9 mm	Basic static load rating	0.095 kN
Width	5 mm	Limiting speed	70 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 630/3 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	3 mm
Outside diameter	9 mm
Width	5 mm

Performance

Basic dynamic load rating	0.325 kN
Basic static load rating	0.095 kN
Limiting speed	70 000 r/min
Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 637/2-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.068 kN
Outside diameter	4 mm	Basic static load rating	0.019 kN
Width	2 mm	Limiting speed	100 000 r/min
		Reference speed	200 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides


W 637/3-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.117 kN
Outside diameter	6 mm	Basic static load rating	0.036 kN
Width	3 mm	Limiting speed	85 000 r/min
		Reference speed	170 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 638/1

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	1 mm	Basic dynamic load rating	0.052 kN
Outside diameter	3 mm	Basic static load rating	0.012 kN
Width	1.5 mm	Limiting speed	150 000 r/min
		Reference speed	240 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





W 638/2-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.094 kN
Outside diameter	5 mm	Basic static load rating	0.025 kN
Width	2.3 mm	Limiting speed	100 000 r/min
		Reference speed	200 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 638/2 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.094 kN
Outside diameter	5 mm	Basic static load rating	0.025 kN
Width	2.3 mm	Limiting speed	100 000 r/min

Reference si	peed	200	000 r/min
richer er lee b	Seed	200	0001/11111

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 638/2 X-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.094 kN
Outside diameter	5 mm	Basic static load rating	0.025 kN
Width	2.5 mm	Limiting speed	100 000 r/min
		Reference speed	200 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 638/2 XR-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.094 kN
Outside diameter	5 mm	Basic static load rating	0.025 kN
Width	2.5 mm	Limiting speed	100 000 r/min

Reference speed 200 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 638/3-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.178 kN
Outside diameter	7 mm	Basic static load rating	0.057 kN
Width	3 mm	Limiting speed	45 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 638/3-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.178 kN
Outside diameter	7 mm	Basic static load rating	0.057 kN
Width	3 mm	Limiting speed	80 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 638/3 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.178 kN
Outside diameter	7 mm	Basic static load rating	0.057 kN
Width	3 mm	Limiting speed	45 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



W 638/3 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	3 mm
Outside diameter	7 mm
Width	3 mm

Performance

Basic dynamic load rating	0.178 kN
Basic static load rating	0.057 kN
Limiting speed	80 000 r/min
Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 638/4 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9 mm	Basic static load rating	0.114 kN
Width	4 mm	Limiting speed	40 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



W 638/4 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.364 kN
Outside diameter	9 mm	Basic static load rating	0.114 kN
Width	4 mm	Limiting speed	70 000 r/min

Reference speed 140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 638/4 X-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	4 mm	Basic dynamic load rating	0.553 kN
Outside diameter	10 mm	Basic static load rating	0.245 kN
Width	4 mm	Limiting speed	36 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 639/2-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.19 kN
Outside diameter	6 mm	Basic static load rating	0.051 kN
Width	3 mm	Limiting speed	90 000 r/min
		Reference speed	180 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 639/2 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	2 mm
Outside diameter	6 mm
Width	3 mm

Performance

Basic dynamic load rating	0.19 kN
Basic static load rating	0.051 kN
Limiting speed	90 000 r/min
Reference speed	180 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



W 639/3-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.319 kN
Outside diameter	8 mm	Basic static load rating	0.09 kN
Width	4 mm	Limiting speed	43 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



W 639/3-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.319 kN
Outside diameter	8 mm	Basic static load rating	0.09 kN
Width	4 mm	Limiting speed	75 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



W 639/3 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.319 kN
Outside diameter	8 mm	Basic static load rating	0.09 kN
Width	4 mm	Limiting speed	43 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



W 639/3 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.319 kN
Outside diameter	8 mm	Basic static load rating	0.09 kN
Width	4 mm	Limiting speed	75 000 r/min

Reference speed 150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2 mm	Basic dynamic load rating	0.221 kN
Outside diameter	7 mm	Basic static load rating	0.067 kN
Width	2.5 mm	Limiting speed	100 000 r/min
		Reference speed	160 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	2.5 mm	Basic dynamic load rating	0.319 kN
Outside diameter	8 mm	Basic static load rating	0.09 kN
Width	2.5 mm	Limiting speed	95 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.225 kN
Outside diameter	8 mm	Basic static load rating	0.072 kN
Width	2.5 mm	Limiting speed	90 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





WBB1-8703 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.225 kN
Outside diameter	8 mm	Basic static load rating	0.072 kN
Width	2.5 mm	Limiting speed	90 000 r/min
		Reference speed	150 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.325 kN
Outside diameter	9 mm	Basic static load rating	0.095 kN
Width	2.5 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





WBB1-8704 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	3 mm	Basic dynamic load rating	0.325 kN
Outside diameter	9 mm	Basic static load rating	0.095 kN
Width	2.5 mm	Limiting speed	90 000 r/min
		Reference speed	140 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.247 kN
Outside diameter	10 mm	Basic static load rating	0.085 kN
Width	3 mm	Limiting speed	85 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without





Technical Specification



Dimensions

d	5 mm	Bore diameter
D	10 mm	Outside diameter
В	3 mm	Width
d_1	≈6 mm	Shoulder diameter
D_1	≈ 7.8 mm	Shoulder diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a r	min. 5.9 mm	Diameter of shaft abutment
D _a r	max. 8.8 mm	Diameter of housing abutment
r _a r	max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Da

d,

Basic dynamic load rating	С	0.247 kN
Basic static load rating	C ₀	0.085 kN
Fatigue load limit	P _u	0.004 kN
Reference speed		130 000 r/min
Limiting speed		85 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.6



Mass

Mass bearing

0.0009 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



WBB1-8705-2RS1



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.247 kN
Outside diameter	10 mm	Basic static load rating	0.085 kN
Width	4 mm	Limiting speed	38 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides
Sealing type	Contact



Technical Specification



Dimensions

d	5 mm	Bore diameter
D	10 mm	Outside diameter
В	4 mm	Width
d_1	≈ 6 mm	Shoulder diameter
d ₂	≈6 mm	Recess diameter
D_2	≈ 8.4 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Da da

Abutment dimensions

d _a min. 5.9 mm	Diameter of shaft abutment
d _a max. 5.9 mm	Diameter of shaft abutment
D _a max. 8.8 mm	Diameter of housing abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.247 kN
Basic static load rating	C ₀	0.085 kN
Fatigue load limit	Pu	0.004 kN
Limiting speed		38 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.6



Mass

Mass bearing

0.0012 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



WBB1-8705-2Z



Stainless steel deep groove ball bearing with integral

sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.247 kN
Outside diameter	10 mm	Basic static load rating	0.085 kN
Width	4 mm	Limiting speed	67 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides



Technical Specification



Dimensions

d	5 mm	Bore diameter
D	10 mm	Outside diameter
В	4 mm	Width
d_1	≈ 6 mm	Shoulder diameter
d ₂	≈6 mm	Recess diameter
D_2	≈ 8.4 mm	Recess diameter
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a	min. 5.9 mm	Diameter of shaft abutment
d _a	max. 5.9 mm	Diameter of shaft abutment
D _a	max. 8.8 mm	Diameter of housing abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.247 kN
Basic static load rating	CO	0.085 kN
Fatigue load limit	Pu	0.004 kN
Reference speed		130 000 r/min
Limiting speed		67 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.6



Mass

Mass bearing

0.0012 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



WBB1-8705 R

Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

KF

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.247 kN
Outside diameter	10 mm	Basic static load rating	0.085 kN
Width	3 mm	Limiting speed	85 000 r/min
		Reference speed	130 000 r/min

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without



Technical Specification



Dimensions

d	5 mm	Bore diameter
D	10 mm	Outside diameter
В	3 mm	Width
d_1	≈6 mm	Shoulder diameter
D_1	≈ 7.8 mm	Shoulder diameter
D_2	≈ 7.8 mm	Recess diameter
D ₃	11.2 mm	Flange diameter
С	0.6 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d_a	min. 5.9 mm	Diameter of shaft abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	С	0.247 kN
Basic static load rating	C ₀	0.085 kN
Fatigue load limit	P _u	0.004 kN
Reference speed		130 000 r/min
Limiting speed		85 000 r/min
Minimum load factor	k _r	0.015


7.6
0.001 kg

Dimensional tolerances	Normal
Radial run-out	Normal



WBB1-8705 R-2RS1



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.247 kN
Outside diameter	10 mm	Basic static load rating	0.085 kN
Width	4 mm	Limiting speed	38 000 r/min

Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Seal on both sides



Technical Specification





d	5 mm	Bore diameter
D	10 mm	Outside diameter
В	4 mm	Width
d_1	≈6 mm	Shoulder diameter
D ₂	≈ 8.4 mm	Recess diameter
D ₃	11.6 mm	Flange diameter
С	0.8 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d_{a}	min. 5.9 mm	Diameter of shaft abutment
d _a	max. 5.9 mm	Diameter of shaft abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.247 kN
Basic static load rating	C ₀	0.085 kN
Fatigue load limit	P _u	0.004 kN
Limiting speed		38 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.6



Mass

Mass bearing

0.0014 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



WBB1-8705 R-2Z



Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Performance

Bore diameter	5 mm	Basic dynamic load rating	0.247 kN
Outside diameter	10 mm	Basic static load rating	0.085 kN
Width	4 mm	Limiting speed	67 000 r/min

Reference speed 130 000 r/min

Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without



Sealing

Shield on both sides

Sealing type

Non-contact



Technical Specification



Dimensions

d	5 mm	Bore diameter
D	10 mm	Outside diameter
В	4 mm	Width
d_1	≈6 mm	Shoulder diameter
D_2	≈ 8.4 mm	Recess diameter
D ₃	11.6 mm	Flange diameter
С	0.8 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension

Abutment dimensions

d _a min. 5.9 mm	Diameter of shaft abutment
d _a max. 5.9 mm	Diameter of shaft abutment
r _a max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.247 kN
Basic static load rating	C ₀	0.085 kN
Fatigue load limit	Pu	0.004 kN
Reference speed		130 000 r/min
Limiting speed		67 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	7.6



Mass

Mass bearing

0.0014 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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