



Image may differ from product. See technical specification for details.

61814

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	70 mm
Outside diameter	90 mm
Width	10 mm

Performance

Basic dynamic load rating	12.4 kN
Basic static load rating	13.2 kN
Reference speed	15 000 r/min
Limiting speed	9 000 r/min

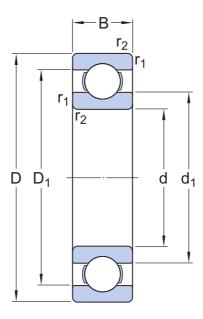
Properties

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

Logistics

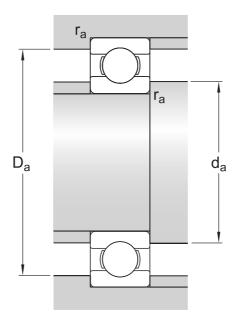
Product net weight	0.138 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	70 mm	Bore diameter
D	90 mm	Outside diameter
В	10 mm	Width
d_1	≈ 76.4 mm	Shoulder diameter
D_1	≈ 83.9 mm	Shoulder diameter
r _{1,2}	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d _a	min. 73.2 mm	Diameter of shaft abutment
D _a	max. 86.8 mm	Diameter of housing abutment
r _a	max. 0.6 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	12.4 kN
Basic static load rating	C_0	13.2 kN
Fatigue load limit	P _u	0.56 kN
Reference speed		15 000 r/min
Limiting speed		9 000 r/min
Minimum load factor	k _r	0.015
Calculation factor	f ₀	17.2

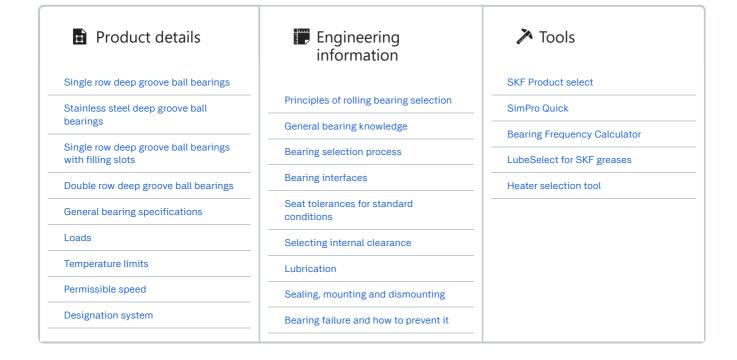
Mass

Mass bearing 0.14 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

More Information





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