

61910 Deep groove ball bearing



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

Bore diameter	50 mm
Outside diameter	72 mm
Width	12 mm

Performance

Basic dynamic load rating	14.6 kN
Basic static load rating	11.8 kN
Reference speed	19 000 r/min
Limiting speed	12 000 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

Technical Specification



Dimensions

d	50 mm	Bore diameter
D	72 mm	Outside diameter
B	12 mm	Width
d ₁	≈ 56.8 mm	Shoulder diameter
D ₁	≈ 65.6 mm	Shoulder diameter
D ₂	≈ 67.3 mm	Recess diameter
r _{1,2}	min. 0.6 mm	Chamfer dimension

Abutment dimensions

d _a	min. 53.2 mm	Diameter of shaft abutment
D _a	max. 68.8 mm	Diameter of housing abutment
r _a	max. 0.6 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	C	14.6 kN
Basic static load rating	C ₀	11.8 kN
Fatigue load limit	P _u	0.5 kN
Reference speed		19 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	16.1

Mass

Mass bearing	0.14 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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