

BS2-2210-2RS/VT143



Spherical roller bearing with integral sealing and relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. Under normal operating conditions, sealed bearings are almost maintenance-free, keeping service costs and grease consumption low. The design includes features to facilitate relubrication.

- Accommodate misalignment
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	90 mm
Width	28 mm

Performance

Basic dynamic load rating	107 kN
Basic static load rating	108 kN
Limiting speed	3 200 r/min
SKF performance class	SKF Explorer

Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

Technical Specification

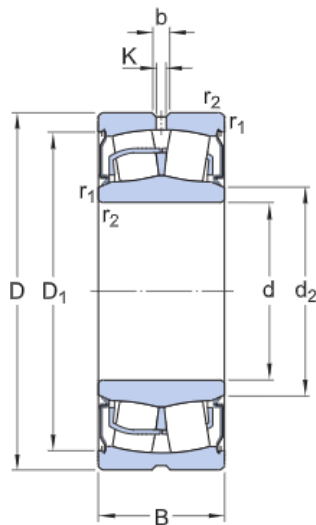
SKF performance class

SKF Explorer

Bore type

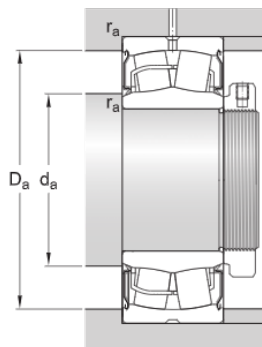
Cylindrical

Dimensions



d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	28 mm	Width
d ₂	≈ 58.1 mm	Shoulder diameter of inner ring
D ₁	≈ 82.3 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
K	3 mm	Diameter of lubrication hole
r _{1,2}	min. 1.1 mm	Chamfer dimension

Abutment dimensions



d _a	min. 57 mm	Diameter of shaft abutment
d _a	max. 58 mm	Diameter of shaft abutment
D _a	max. 83 mm	Diameter of housing abutment
r _a	max. 1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	107 kN
Basic static load rating	C ₀	108 kN

Fatigue load limit	P_u	12 kN
Limiting speed		3 200 r/min
Limiting value	e	0.24
Calculation factor	Y_1	2.8
Calculation factor	Y_2	4.2
Calculation factor	Y_0	2.8

Mass

Mass		0.7 kg
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Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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