



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

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

Properties

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

Performance

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

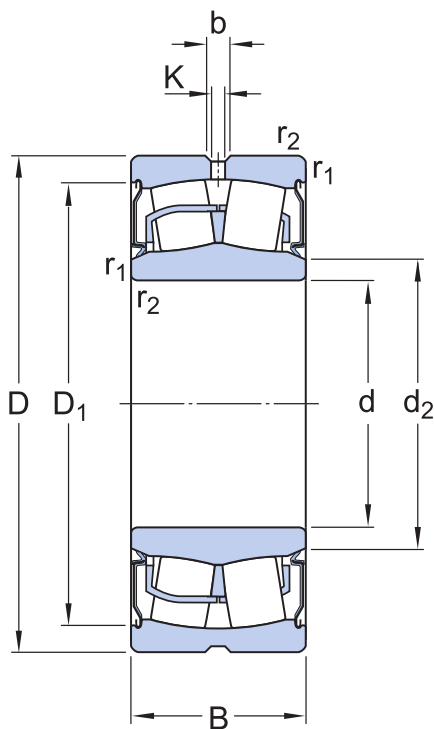
Logistics

Product net weight	0.705 kg
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification

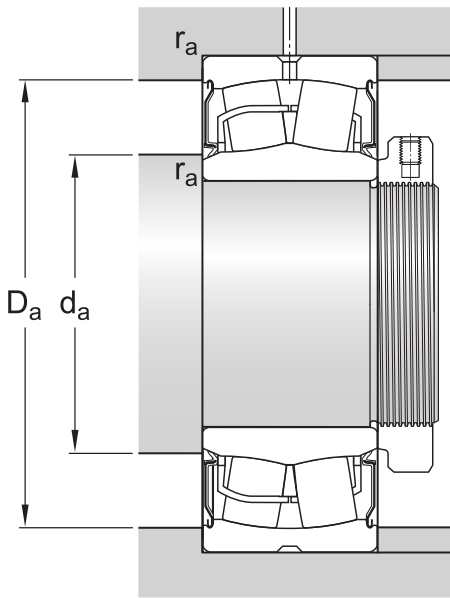
Bore type

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

SKF performance class		SKF Explorer
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
------	--------

Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5