

239/500 CA/W33



Spherical roller bearing with 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. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	500 mm
Outside diameter	670 mm
Width	128 mm

Performance

Basic dynamic load rating	2 967 kN
Basic static load rating	6 000 kN
Reference speed	530 r/min
Limiting speed	950 r/min
SKF performance class	SKF Explorer

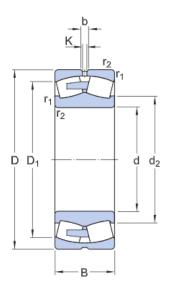
Properties

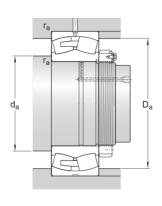
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Machined metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes mm



Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical





Dimensions

d	500 mm	Bore diameter
D	670 mm	Outside diameter
В	128 mm	Width
d_2	≈ 561 mm	Shoulder diameter of inner ring
D_1	≈ 622 mm	Shoulder/recess diameter of outer ring
b	22.3 mm	Width of lubrication groove
K	12 mm	Diameter of lubrication hole
r _{1,2}	min. 5 mm	Chamfer dimension

Abutment dimensions

d _a min. 518 mm	Diameter of shaft abutment
D _a max. 652 mm	Diameter of housing abutment
r _a max. 4 mm	Radius of fillet

Calculation data

Basic dynamic load rating	С	2 967 kN
Basic static load rating	C_O	6 000 kN



Fatigue load limit	P _u	415 kN
Reference speed		530 r/min
Limiting speed		950 r/min
Limiting value	е	0.17
Calculation factor	Y ₁	4
Calculation factor	Y ₂	5.9
Calculation factor	Y ₀	4

Mass

Mass 130 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal



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