

23024 CC/W33Spherical rotter

bearing with relubrication features

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	120 mm
Outside diameter	180 mm
Width	46 mm

Performance

Basic dynamic load rating	366 kN
Basic static load rating	500 kN
Reference speed	3 200 r/min
Limiting speed	4 000 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	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes



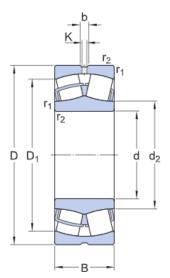
SKF Explorer

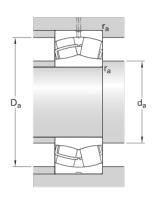
Cylindrical

Technical Specification

SKF performance class

Bore type





Dimensions

d	120 mm	Bore diameter
D	180 mm	Outside diameter
В	46 mm	Width
d ₂	≈135 mm	Shoulder diameter of inner ring
D_1	≈163 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
К	3 mm	Diameter of lubrication hole
r _{1,2}	min. 2 mm	Chamfer dimension

Abutment dimensions

d _a min. 129 mm	Diameter of shaft abutment
D _ε max. 171 mm	Diameter of housing abutment
^r a max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	С	366 kN
Basic static load rating	C ₀	500 kN



Fatigue load limit	P _u	53 kN
Reference speed		3 200 r/min
Limiting speed		4 000 r/min
Limiting value	e	0.22
Calculation factor	Y ₁	3
Calculation factor	Y ₂	4.6
Calculation factor	Y ₀	2.8

Mass

Mass	4.05 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5



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