

23120 CCK/W33



Spherical roller bearing with tapered bore 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. 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	100 mm
Outside diameter	165 mm
Width	52 mm

Performance

Basic dynamic load rating	385 kN
Basic static load rating	490 kN
Reference speed	3 000 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	Tapered 1:12
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

Technical Specification

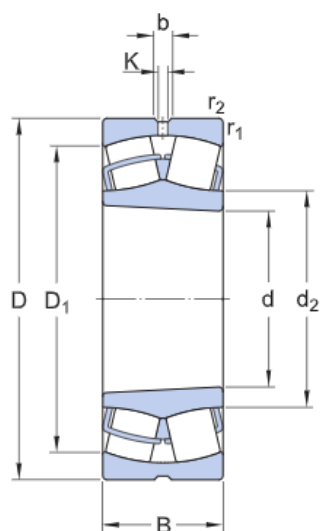
SKF performance class

SKF Explorer

Bore type

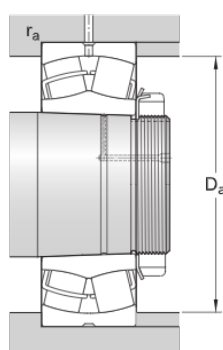
Tapered 1:12

Dimensions



d	100 mm	Bore diameter
D	165 mm	Outside diameter
B	52 mm	Width
d ₂	≈ 115 mm	Shoulder diameter of inner ring
D ₁	≈ 144 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. 2 mm	Chamfer dimension

Abutment dimensions



D _a	max. 154 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	385 kN
Basic static load rating	C ₀	490 kN

Fatigue load limit	P_u	53 kN
Reference speed		3 000 r/min
Limiting speed		4 000 r/min
Limiting value	e	0.3
Calculation factor	Y_1	2.3
Calculation factor	Y_2	3.4
Calculation factor	Y_0	2.2

Mass

Mass	4.25 kg
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Mounting information

Recommended tightening angle for lock nut	α	150 °
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5

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