

22216 EK



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	80 mm
Outside diameter	140 mm
Width	33 mm

Performance

Basic dynamic load rating	243 kN
Basic static load rating	270 kN
Reference speed	4 300 r/min
Limiting speed	6 000 r/min
SKF performance class	SKF Explorer

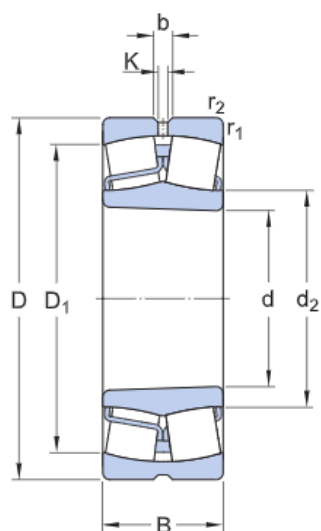
Properties

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

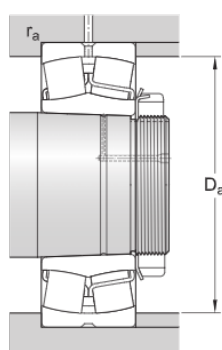
SKF performance class	SKF Explorer
Bore type	Tapered 1:12

Dimensions



d	80 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
d ₂	≈ 94.7 mm	Shoulder diameter of inner ring
D ₁	≈ 124 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. 129 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	243 kN
Basic static load rating	C ₀	270 kN

Fatigue load limit	P_u	29 kN
Reference speed		4 300 r/min
Limiting speed		6 000 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		2.05 kg
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Mounting information

Recommended tightening angle for lock nut	α	130 °
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Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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