

24144 CCK30/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	220 mm
Outside diameter	370 mm
Width	150 mm

Performance

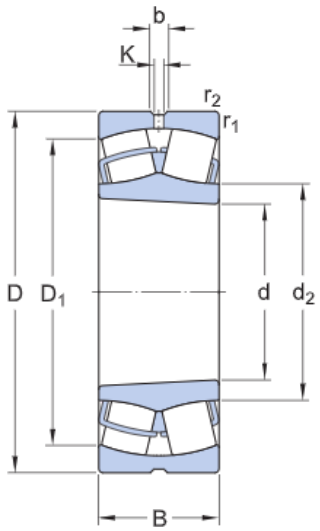
Basic dynamic load rating	2 197 kN
Basic static load rating	3 350 kN
Reference speed	850 r/min
Limiting speed	1 200 r/min
SKF performance class	SKF Explorer

Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:30
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 mm

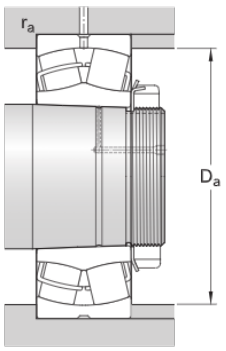
Technical Specification

SKF performance class	SKF Explorer
Bore type	Tapered 1:30



Dimensions

d	220 mm	Bore diameter
D	370 mm	Outside diameter
B	150 mm	Width
d_2	≈ 248 mm	Shoulder diameter of inner ring
D_1	≈ 310 mm	Shoulder/recess diameter of outer ring
b	11.1 mm	Width of lubrication groove
K	6 mm	Diameter of lubrication hole
$r_{1,2}$	min. 4 mm	Chamfer dimension



Abutment dimensions

D_a	max. 353 mm	Diameter of housing abutment
r_a	max. 3 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	2 197 kN
Basic static load rating	C_0	3 350 kN

Fatigue load limit	P_u	285 kN
Reference speed		850 r/min
Limiting speed		1 200 r/min
Limiting value	e	0.4
Calculation factor	Y_1	1.7
Calculation factor	Y_2	2.5
Calculation factor	Y_0	1.6

Mass

Mass	64.5 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5

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