

# 22222 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	110 mm
Outside diameter	200 mm
Width	53 mm

### Performance

Basic dynamic load rating	572 kN
Basic static load rating	640 kN
Limiting speed	4 000 r/min
Reference speed	3 000 r/min
SKF performance class	SKF Explorer

## Properties

Bore type	Tapered 1:12
Cage	Sheet metal
Candidate for remanufacturing	Yes
Locating feature, bearing outer ring	Without
Lubricant	None
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

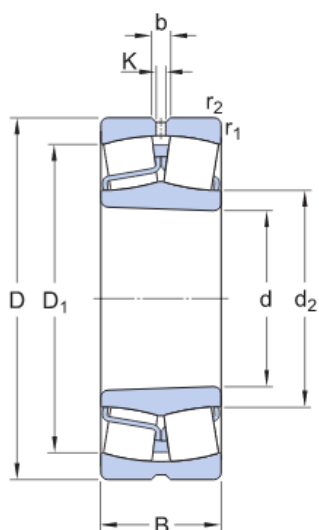
# Technical Specification

SKF performance class

SKF Explorer

Bore type

Tapered 1:12

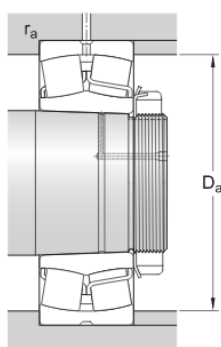


## Dimensions

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	53 mm	Width
d <sub>2</sub>	≈ 130 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 178 mm	Shoulder/recess diameter of outer ring
b	8.3 mm	Width of lubrication groove
K	4.5 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 2.1 mm	Chamfer dimension

## Abutment dimensions

D <sub>a</sub>	max. 188 mm	Diameter of housing abutment
r <sub>a</sub>	max. 2 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	572 kN
Basic static load rating	C <sub>0</sub>	640 kN

Fatigue load limit	$P_u$	63 kN
Reference speed		3 000 r/min
Limiting speed		4 000 r/min
Limiting value	$e$	0.25
Axial load factor	$Y_1$	2.7
Axial load factor	$Y_2$	4
Axial load factor	$Y_0$	2.5

## Mass

Mass		6.9 kg
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