

# 22244 CC/W33



## 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	220 mm
Outside diameter	400 mm
Width	108 mm

### Performance

Basic dynamic load rating	1 835 kN
Basic static load rating	2 360 kN
Reference speed	1 500 r/min
Limiting speed	2 000 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

# Technical Specification

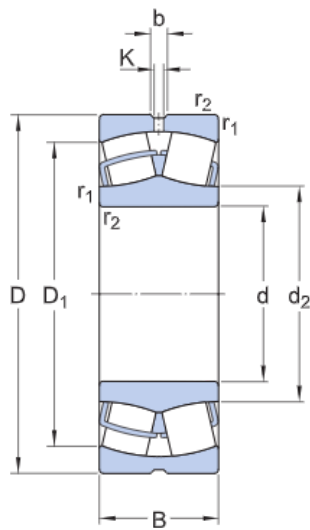
SKF performance class

SKF Explorer

Bore type

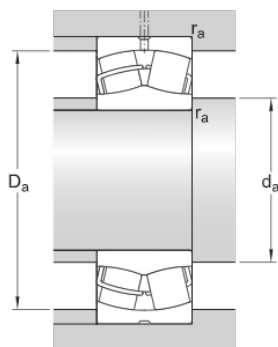
Cylindrical

## Dimensions



d	220 mm	Bore diameter
D	400 mm	Outside diameter
B	108 mm	Width
$d_2$	$\approx 263$ mm	Shoulder diameter of inner ring
$D_1$	$\approx 346$ mm	Shoulder/recess diameter of outer ring
b	16.7 mm	Width of lubrication groove
K	9 mm	Diameter of lubrication hole
$r_{1,2}$	min. 4 mm	Chamfer dimension

## Abutment dimensions



$d_a$	min. 237 mm	Diameter of shaft abutment
$D_c$	max. 383 mm	Diameter of housing abutment
$r_a$	max. 3 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	1 835 kN
Basic static load rating	$C_0$	2 360 kN

Fatigue load limit	$P_u$	200 kN
Reference speed		1 500 r/min
Limiting speed		2 000 r/min
Limiting value	$e$	0.27
Calculation factor	$Y_1$	2.5
Calculation factor	$Y_2$	3.7
Calculation factor	$Y_0$	2.5

## Mass

Mass		59 kg
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## Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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