



# 24040 CCK30/W33 Spherical roller bearing with tapered bore and relubrication features

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	200 mm
Outside diameter	310 mm
Width	109 mm

### Performance

Basic dynamic load rating	1 353 kN
Basic static load rating	2 120 kN
Reference speed	1 300 r/min
Limiting speed	1 900 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	Normal
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

Tapered 1:30

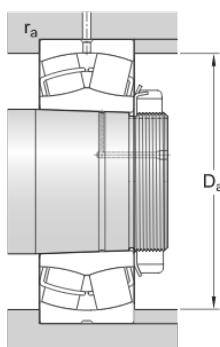


## Dimensions

d	200 mm	Bore diameter
D	310 mm	Outside diameter
B	109 mm	Width
$d_2$	≈ 223 mm	Shoulder diameter of inner ring
$D_1$	≈ 268 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. 2.1 mm	Chamfer dimension

## Abutment dimensions

$D_a$	max. 299 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	1 353 kN
Basic static load rating	$C_0$	2 120 kN

Fatigue load limit	$P_u$	186 kN
Reference speed		1 300 r/min
Limiting speed		1 900 r/min
Limiting value	$e$	0.33
Calculation factor	$Y_1$	2
Calculation factor	$Y_2$	3
Calculation factor	$Y_0$	2

## Mass

Mass	29.5 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5

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