



# 23138 CCK/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	190 mm
Outside diameter	320 mm
Width	104 mm

### Performance

Basic dynamic load rating	1 456 kN
Basic static load rating	2 080 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	Tapered 1:12
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 1:12

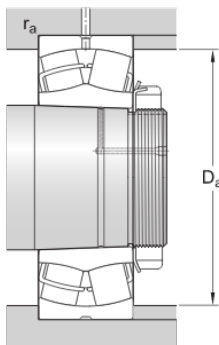


## Dimensions

d	190 mm	Bore diameter
D	320 mm	Outside diameter
B	104 mm	Width
$d_2$	$\approx 220$ mm	Shoulder diameter of inner ring
$D_1$	$\approx 275$ mm	Shoulder/recess diameter of outer ring
b	13.9 mm	Width of lubrication groove
K	7.5 mm	Diameter of lubrication hole
$r_{1,2}$	min. 3 mm	Chamfer dimension

## Abutment dimensions

$D_a$	max. 306 mm	Diameter of housing abutment
$r_a$	max. 2.5 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	1 456 kN
Basic static load rating	$C_0$	2 080 kN

Fatigue load limit	$P_u$	183 kN
Reference speed		1 500 r/min
Limiting speed		2 000 r/min
Limiting value	$e$	0.31
Calculation factor	$Y_1$	2.2
Calculation factor	$Y_2$	3.3
Calculation factor	$Y_0$	2.2

## Mass

Mass		33.5 kg
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## Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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