

# 23996 CAK/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	480 mm
Outside diameter	650 mm
Width	128 mm

## Performance

Basic dynamic load rating	2 990 kN
Basic static load rating	5 700 kN
Reference speed	560 r/min
Limiting speed	1 000 r/min
SKF performance class	SKF Explorer

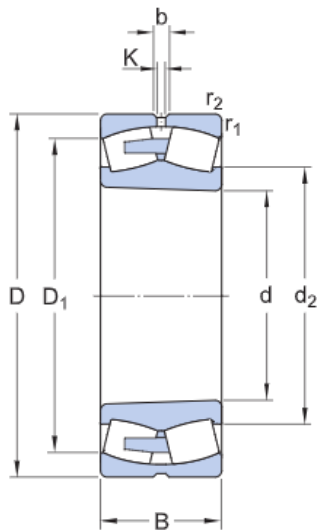
## Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Machined metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes

# Technical Specification

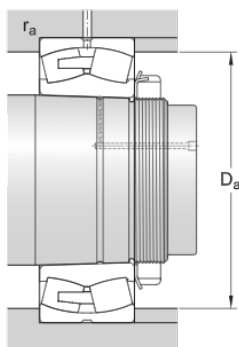
SKF performance class	SKF Explorer
Bore type	Tapered 1:12

## Dimensions



d	480 mm	Bore diameter
D	650 mm	Outside diameter
B	128 mm	Width
d <sub>2</sub>	≈ 537 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 602 mm	Shoulder/recess diameter of outer ring
b	16.7 mm	Width of lubrication groove
K	9 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 5 mm	Chamfer dimension

## Abutment dimensions



D <sub>a</sub>	max. 632 mm	Diameter of housing abutment
r <sub>a</sub>	max. 4 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	2 990 kN
Basic static load rating	C <sub>0</sub>	5 700 kN

Fatigue load limit	$P_u$	405 kN
Reference speed		560 r/min
Limiting speed		1 000 r/min
Limiting value	$e$	0.18
Calculation factor	$Y_1$	3.8
Calculation factor	$Y_2$	5.6
Calculation factor	$Y_0$	3.6

## Mass

Mass		120 kg
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## Tolerance class

Dimensional tolerances		Normal
Radial run-out		Normal

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