

# 21307 CCSpherical roller bearing



## Spherical roller bearing

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. They can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Increased wear resistance

## Overview

### Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm

### Performance

Basic dynamic load rating	79.2 kN
Basic static load rating	72 kN
Reference speed	8 500 r/min
Limiting speed	12 000 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	Normal
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	Without

# Technical Specification

SKF performance class

SKF Explorer

Bore type

Cylindrical

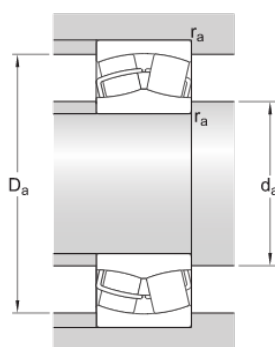


## Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
$d_2$	$\approx 47.2$ mm	Shoulder diameter of inner ring
$D_1$	$\approx 65.6$ mm	Shoulder/recess diameter of outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension

## Abutment dimensions

$d_a$	min. 44 mm	Diameter of shaft abutment
$D_a$	max. 71 mm	Diameter of housing abutment
$r_a$	max. 1.5 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	79.2 kN
Basic static load rating	$C_0$	72 kN
Fatigue load limit	$P_u$	8 kN

Reference speed		8 500 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.28
Calculation factor	$Y_1$	2.4
Calculation factor	$Y_2$	3.6
Calculation factor	$Y_0$	2.5

## Mass

Mass		0.54 kg
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## Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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