

21307 CC

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 for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

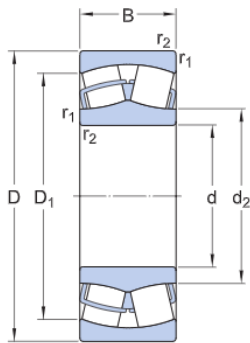
SKF performance class

SKF Explorer

Bore type

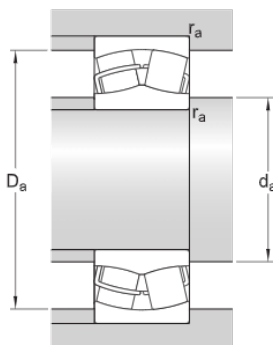
Cylindrical

Dimensions



d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d_2	≈ 47.2 mm	Shoulder diameter of inner ring
D_1	≈ 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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