

21308 EKW



NOT FOUND

Spherical roller bearing with tapered bore

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	40 mm
Outside diameter	90 mm
Width	23 mm

Performance

Basic dynamic load rating	107 kN
Basic static load rating	108 kN
Reference speed	7 000 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

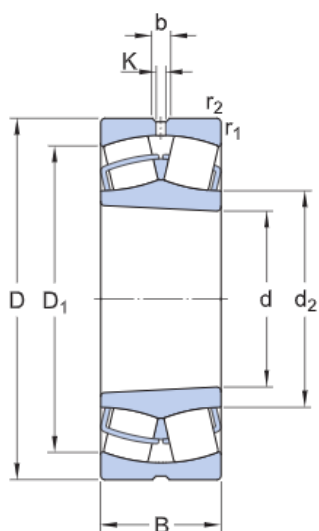
Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

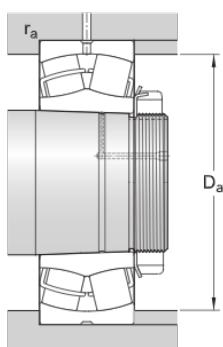
SKF performance class	SKF Explorer
Bore type	Tapered 1:12

Dimensions



d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d ₂	≈ 60 mm	Shoulder diameter of inner ring
D ₁	≈ 79.8 mm	Shoulder/recess diameter of outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension

Abutment dimensions



d _a	min. 47.2 mm	Diameter of shaft abutment
D _a	max. 81 mm	Diameter of housing abutment
r _a	max. 1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	107 kN
Basic static load rating	C ₀	108 kN
Fatigue load limit	P _u	12 kN

Reference speed		7 000 r/min
Limiting speed		9 500 r/min
Limiting value	e	0.24
Calculation factor	Y_1	2.8
Calculation factor	Y_2	4.2
Calculation factor	Y_0	2.8

Mass

Mass		0.75 kg
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Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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