



Image may differ from product. See specification for details.

23072 CAC/W33

Spherical roller bearing with 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	14.1732 in
Outside diameter	21.2598 in
Width	5.2756 in

Performance

Basic dynamic load rating	623 395 lbf
Basic static load rating	1 045 362 lbf
Reference speed	950 r/min
Limiting speed	1 200 r/min
SKF performance class	SKF Explorer

Properties

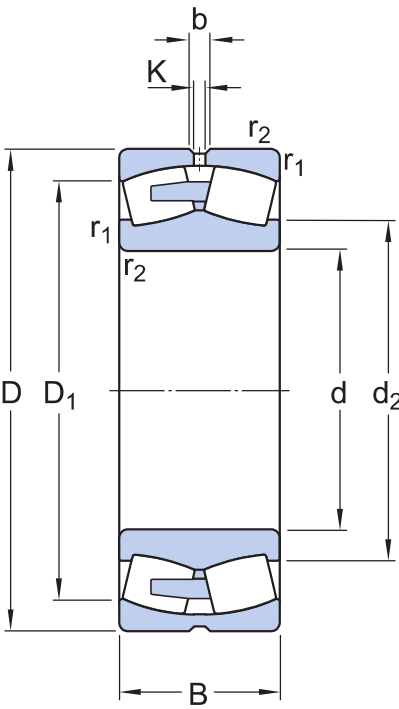
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Machined brass
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	873 lb CO ₂ e
Indicative carbon footprint for remanufactured product	306 lb CO ₂ e

Logistics

Product net weight	243 lb
eClass code	23-05-09-11
UNSPSC code	31171510

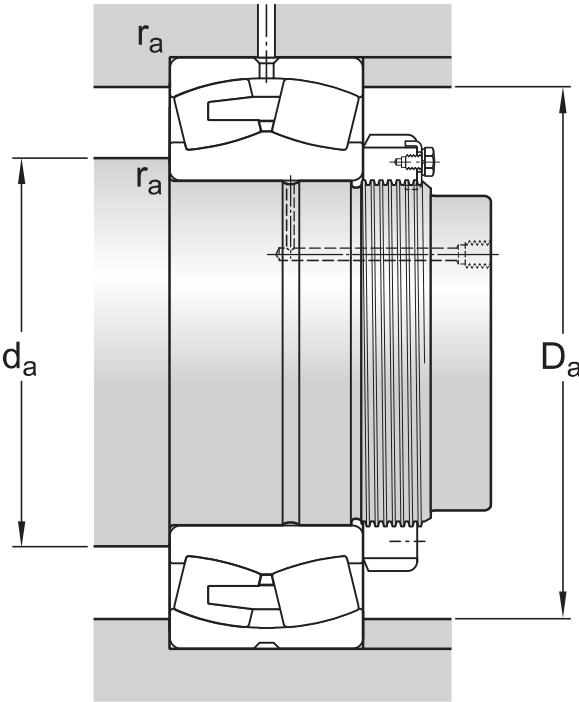
Technical specification

Bore type	Cylindrical
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Dimensions

d	14.1732 in	Bore diameter
D	21.2598 in	Outside diameter
B	5.2756 in	Width
d ₂	≈ 16.4567 in	Shoulder diameter of inner ring
D ₁	≈ 19.0157 in	Shoulder/recess diameter of outer ring
b	0.878 in	Width of lubrication groove
K	0.4724 in	Diameter of lubrication hole
r _{1,2}	min. 0.1969 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 14.8819 in	Diameter of shaft abutment
D_a	max. 20.5512 in	Diameter of housing abutment
r_a	max. 0.1575 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	623 395 lbf
Basic static load rating	C_0	1 045 362 lbf
Fatigue load limit	P_u	75 311 lbf
Reference speed		950 r/min
Limiting speed		1 200 r/min
Limiting value	e	0.23
Calculation factor	Y_1	2.9
Calculation factor	Y_2	4.4
Calculation factor	Y_0	2.8

Tolerances of run-out

ISO tolerance class for geometrical tolerances	Normal
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

Product details	Engineering information	Tools
Designs and variants	Principles of rolling bearing selection	SimPro Quick
General bearing specifications	General bearing knowledge	SKF Product select - Select and evaluate bearing
Loads	Bearing selection process	SKF Product select - Combine housing with bearing
Temperature limits	Bearing failure and how to prevent it	LubeSelect for SKF greases
Permissible speed		Drive-up Method Program
Design considerations		Heater selection tool
Mounting		Oil Injection Method Program
Designation system		Tool and Accessory Selector for sleeves and shafts



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