



Image may differ from product. See specification for details.

23026 CC/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	5.1181 in
Outside diameter	7.874 in
Width	2.0472 in

Performance

Basic dynamic load rating	101 614 lbf
Basic static load rating	137 133 lbf
Reference speed	2 800 r/min
Limiting speed	3 600 r/min
SKF performance class	SKF Explorer

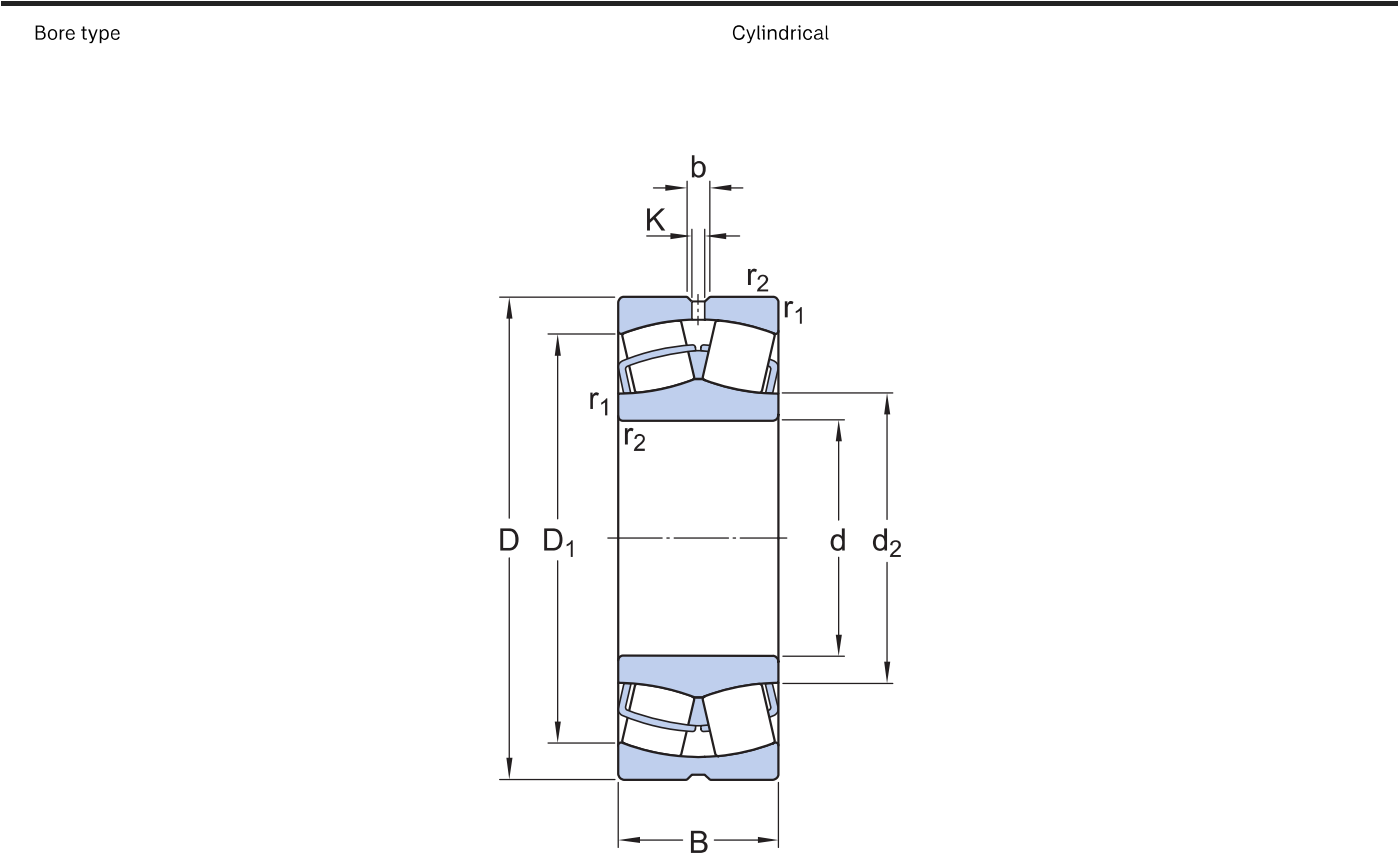
Properties

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	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	45.8 lb CO ₂ e
Indicative carbon footprint for remanufactured product	16 lb CO ₂ e

Logistics

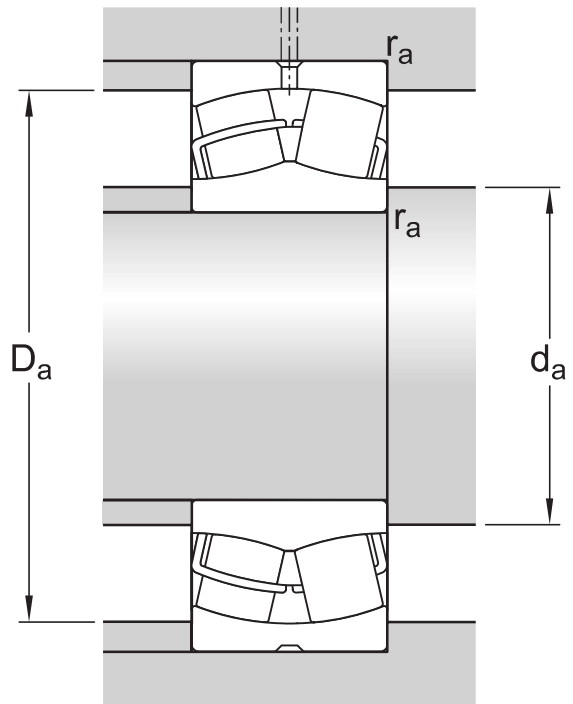
Product net weight	12.7 lb
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification



Dimensions

d	5.1181 in	Bore diameter
t _{Δdmp}	-25 – 0 μm	Deviation limits of mid-range bore diameter
D	7.874 in	Outside diameter
t _{ΔDmp}	-30 – 0 μm	Deviation limits of mid-range outside diameter
B	2.0472 in	Width
t _{ΔBs}	-80 – 0 μm	Deviation limits of ring width
d ₂	≈ 5.8268 in	Shoulder diameter of inner ring
D ₁	≈ 7.0866 in	Shoulder/recess diameter of outer ring
b	0.3268 in	Width of lubrication groove
K	0.1772 in	Diameter of lubrication hole
r _{1,2}	min. 0.0787 in	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 5.4724 in	Diameter of shaft abutment
D_a	max. 7.5197 in	Diameter of housing abutment
r_a	max. 0.0787 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	101 614 lbf
Basic static load rating	C_0	137 133 lbf
Fatigue load limit	P_u	13 938 lbf
Reference speed		2 800 r/min
Limiting speed		3 600 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

Range of section height at inner ring of assembled bearing	t _{Kia}	8 μm
Maximum run-out of inner ring side face to the bore	t _{Sd}	10 μm
Range of section height at outer ring of assembled bearing	t _{Kea}	15 μm
Perpendicularity of outer ring outside surface	t _{SD}	5.5 μm
ISO tolerance class for geometrical tolerances		P5

Radial internal clearance

Minimum initial clearance	0.0037 in
Maximum initial clearance	0.0057 in

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