



Image may differ from product. See specification for details.

23122 CCK/W33

Spherical roller bearing with tapered bore and 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	4.3307 in
Outside diameter	7.0866 in
Width	2.2047 in

Performance

Basic dynamic load rating	101 164 lbf
Basic static load rating	131 513 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	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	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	40.4 lb CO ₂ e
Indicative carbon footprint for remanufactured product	14.1 lb CO ₂ e

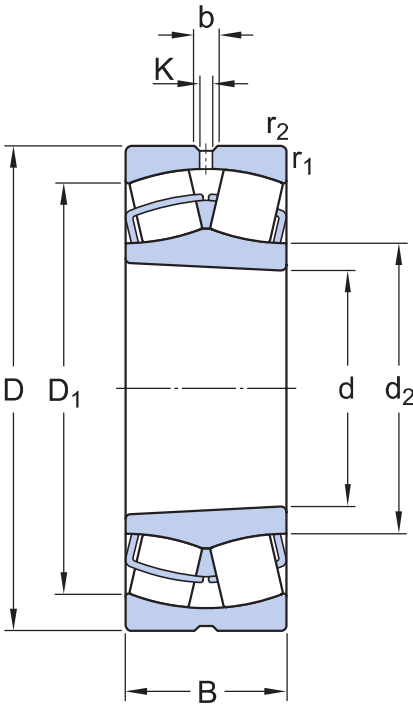
Logistics

Product net weight	11.2 lb
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification

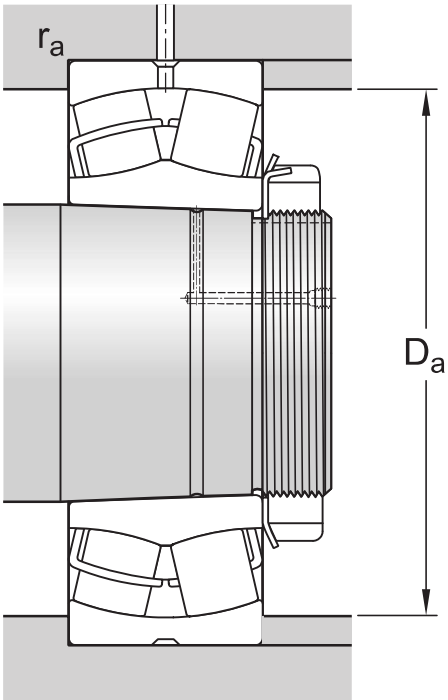
Bore type

Tapered 1:12



Dimensions

d	4.3307 in	Bore diameter
t _{Δdmp}	0 – 35 μm	Deviation limits of mid-range bore diameter
t _{ΔSL}	0 – 35 μm	Deviation limits of tapered slope
D	7.0866 in	Outside diameter
t _{ΔDmp}	-25 – 0 μm	Deviation limits of mid-range outside diameter
B	2.2047 in	Width
t _{ΔBs}	-80 – 0 μm	Deviation limits of ring width
d ₂	≈ 4.9606 in	Shoulder diameter of inner ring
D ₁	≈ 6.1811 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	max. 6.6535 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	101 164 lbf
Basic static load rating	C_0	131 513 lbf
Fatigue load limit	P_u	13 489 lbf
Reference speed		2 800 r/min
Limiting speed		3 600 r/min
Limiting value	e	0.3
Calculation factor	Y_1	2.3
Calculation factor	Y_2	3.4
Calculation factor	Y_0	2.2

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t _{Kia}	6 μm
Maximum run-out of inner ring side face to the bore	t _{Sd}	9 μm
Range of section height at outer ring of assembled bearing	t _{Kea}	13 μm
Perpendicularity of outer ring outside surface	t _{SD}	5 μm
ISO tolerance class for geometrical tolerances		P5

Radial internal clearance

Minimum initial clearance	0.0039 in
Maximum initial clearance	0.0053 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

Compatible products

Recommended product

Withdrawal sleeve, basic design, ISO standards	AHX 3122
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions	H 3122
Adapter sleeve with KMFE lock nut, metric dimensions	H 3122 E

More Information



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