

Image may differ from product. See technical specification for details.

23072 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. Also available on request with special sized bore and/or outside diameters, suitable for reworked shafts and housings.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	360 mm
Outside diameter	540 mm
Width	134 mm

Performance

Basic dynamic load rating	2 850 kN
Basic static load rating	4 800 kN
Reference speed	950 r/min
Limiting speed	1 200 r/min
SKF performance class	SKF Explorer

Properties

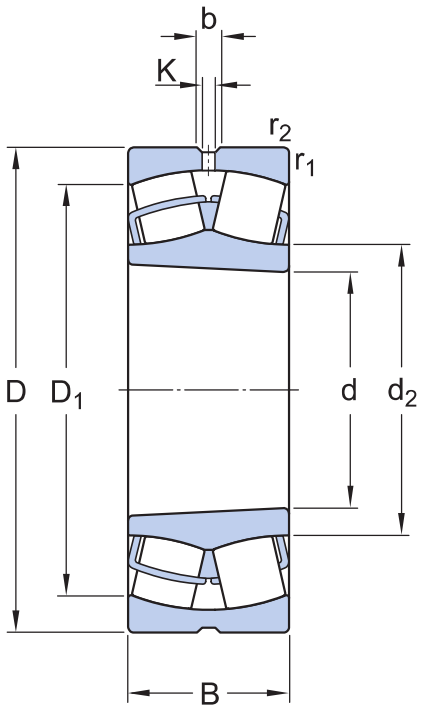
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	384 kg CO_2e
Indicative carbon footprint for remanufactured product	127 kg CO_2e

Logistics

Product net weight	104 kg
eClass code	23-05-09-11
UNSPSC code	31171510

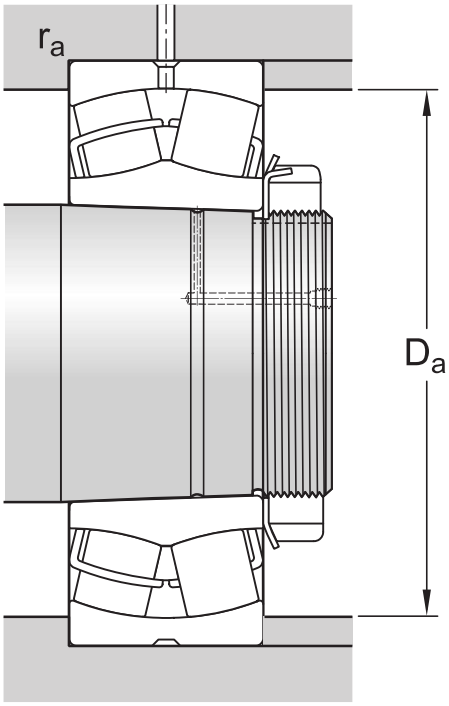
Technical specification

Bore type	Tapered 1:12



Dimensions

d	360 mm	Bore diameter
$t_{\Delta dmp}$	0 – 0.057 mm	Deviation limits of mid-range bore diameter
$t_{\Delta SL}$	0 – 0.057 mm	Deviation limits of tapered slope
D	540 mm	Outside diameter
$t_{\Delta Dmp}$	-0.05 – 0 mm	Deviation limits of mid-range outside diameter
B	134 mm	Width
$t_{\Delta Bs}$	-0.4 – 0 mm	Deviation limits of ring width
d_2	≈ 404 mm	Shoulder diameter of inner ring
D_1	≈ 483 mm	Shoulder/recess diameter of outer ring
b	22.3 mm	Width of lubrication groove
K	12 mm	Diameter of lubrication hole
$r_{1,2}$	min. 5 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

D_a	max. 522 mm	Diameter of housing abutment
r_a	max. 4 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	2 850 kN
Basic static load rating	C_0	4 800 kN
Fatigue load limit	P_u	345 kN
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

Range of section height at inner ring of assembled bearing	t_{Kia}	60 µm

Range of section height at outer ring of assembled bearing	t_{Kea}	100 µm
ISO tolerance class for geometrical tolerances		Normal

Radial internal clearance

Minimum initial clearance	300 µm
Maximum initial clearance	400 µm

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, for oil injection, ISO standards	AOH 3072 G
Adapter sleeve for oil injection mounting with HM lock nut and MS locking clip, metric dimensions	OH 3072 H

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