

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

22326-2CS5/VT143

Spherical roller bearing with integral sealing 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. Under normal operating conditions, sealed bearings are almost maintenance-free, keeping service costs and grease consumption low. The design includes features to facilitate relubrication. Also available on request with special sized bore and/or outside diameters, suitable for reworked shafts and housings.

- Accommodate misalignment up to 0.5 degree
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	130 mm
Outside diameter	280 mm
Width	93 mm

Performance

Basic dynamic load rating	1 178 kN
Basic static load rating	1 320 kN
Limiting speed	850 r/min
SKF performance class	SKF Explorer

Properties

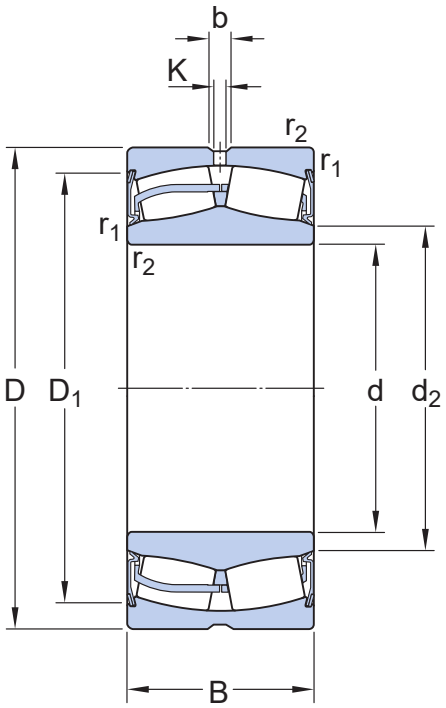
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	102 kg CO_2e
Indicative carbon footprint for remanufactured product	34 kg CO_2e

Logistics

Product net weight	27.7 kg
eClass code	23-05-09-11
UNSPSC code	31171510

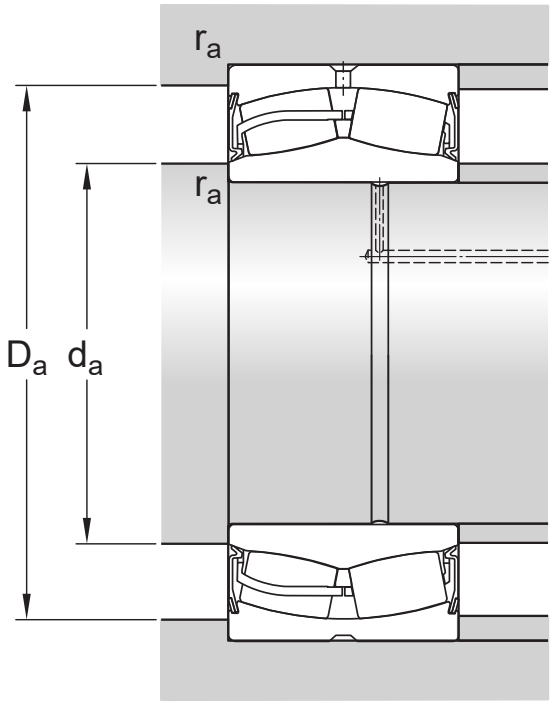
Technical specification

Bore type	Cylindrical



Dimensions

d	130 mm	Bore diameter
$t_{\Delta dmp}$	-0.025 – 0 mm	Deviation limits of mid-range bore diameter
D	280 mm	Outside diameter
$t_{\Delta Dmp}$	-0.035 – 0 mm	Deviation limits of mid-range outside diameter
B	93 mm	Width
$t_{\Delta Bs}$	-0.08 – 0 mm	Deviation limits of ring width
d_2	≈ 159 mm	Shoulder diameter of inner ring
D_1	≈ 246 mm	Shoulder/recess diameter of outer ring
b	16.7 mm	Width of lubrication groove
K	9 mm	Diameter of lubrication hole
$r_{1,2}$	min. 4 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 147 mm	Diameter of shaft abutment
d_a	max. 159 mm	Diameter of shaft abutment
D_a	max. 263 mm	Diameter of housing abutment
r_a	max. 3 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	1 178 kN
Basic static load rating	C_0	1 320 kN
Fatigue load limit	P_u	114 kN
Limiting speed		850 r/min
Limiting value	e	0.33
Calculation factor	Y_1	2
Calculation factor	Y_2	3
Calculation factor	Y_0	2

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}	18 µm
Perpendicularity of outer ring outside surface	t_{SD}	6.5 µm
ISO tolerance class for geometrical tolerances		P5

Radial internal clearance

Minimum initial clearance	95 µm
Maximum initial clearance	145 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

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