



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

22314 E

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	70 mm
Outside diameter	150 mm
Width	51 mm

Performance

Basic dynamic load rating	413 kN
Basic static load rating	430 kN
Reference speed	3 400 r/min
Limiting speed	4 500 r/min
SKF performance class	SKF Explorer

Properties

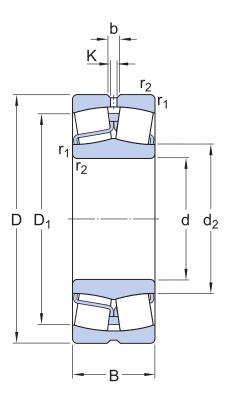
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With

Logistics

Product net weight	4.31 kg
eClass code	23-05-09-11
UNSPSC code	31171510

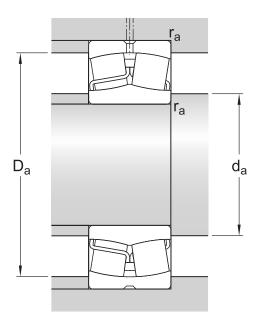
Technical specification

Bore type Cylindrical



Dimensions

d	70 mm	Bore diameter
D	150 mm	Outside diameter
В	51 mm	Width
d ₂	≈ 90.3 mm	Shoulder diameter of inner ring
D_1	≈ 128 mm	Shoulder/recess diameter of outer ring
b	8.3 mm	Width of lubrication groove
К	4.5 mm	Diameter of lubrication hole
г _{1,2}	min. 2.1 mm	Chamfer dimension



Abutment dimensions

da	min. 82 mm	Diameter of shaft abutment
Da	max. 138 mm	Diameter of housing abutment
ra	max. 2 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	413 kN
Basic static load rating	C ₀	430 kN
Fatigue load limit	Pu	45 kN
Reference speed		3 400 r/min
Limiting speed		4 500 r/min
Limiting value	е	0.33
Calculation factor	Y ₁	2
Calculation factor	Y ₂	3
Calculation factor	Y ₀	2

Tolerance class

al

Radial run-out P5

Tolerances and clearances

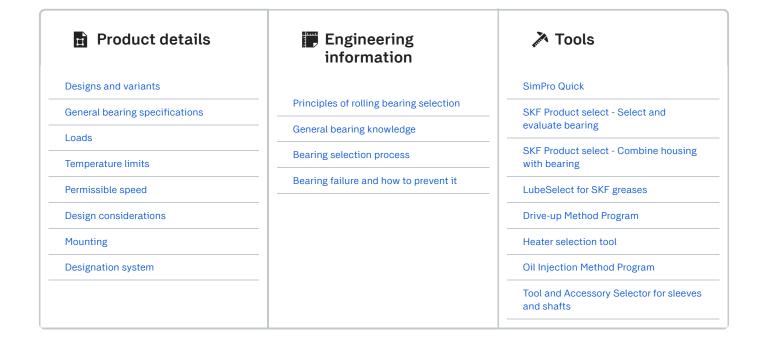
GENERAL BEARING SPECIFICATIONS

- 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





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