

22208 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	1.575 in
Outside diameter	3.15 in
Width	0.906 in

Performance

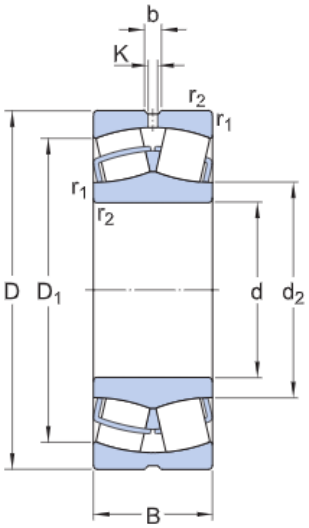
Basic dynamic load rating	22 144 lbf
Basic static load rating	20 570 lbf
Limiting speed	11 000 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

Properties

Bore type	Cylindrical
Cage	Sheet metal
Locating feature, bearing outer ring	Without
Lubricant	None
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without

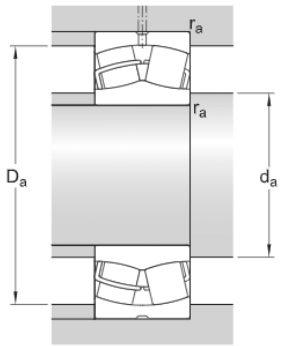
Technical Specification

SKF performance class	SKF Explorer
Bore type	Cylindrical



Dimensions

d	1.575 in	Bore diameter
D	3.15 in	Outside diameter
B	0.906 in	Width
d_2	≈ 1.953 in	Shoulder diameter of inner ring
D_1	≈ 2.732 in	Shoulder/recess diameter of outer ring
b	0.236 in	Width of lubrication groove
K	0.118 in	Diameter of lubrication hole
$r_{1,2}$	min. 0.043 in	Chamfer dimension



Abutment dimensions

d_a	min. 1.85 in	Diameter of shaft abutment
D_a	max. 2.874 in	Diameter of housing abutment
r_a	max. 0.039 in	Radius of fillet

Calculation data

Basic dynamic load rating	C	22 144 lbf
Basic static load rating	C_0	20 570 lbf

Fatigue load limit	P_u	2 248 lbf
Reference speed		8 000 r/min
Limiting speed		11 000 r/min
Limiting value	e	0.28
Calculation factor	Y_1	2.4
Calculation factor	Y_2	3.6
Calculation factor	Y_0	2.5

Mass

Mass	1.168 lb

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