

22210 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	1.969 in
Outside diameter	3.543 in
Width	0.906 in

Performance

Basic dynamic load rating	24 055 lbf
Basic static load rating	24 279 lbf
Limiting speed	9 500 r/min
Reference speed	7 000 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

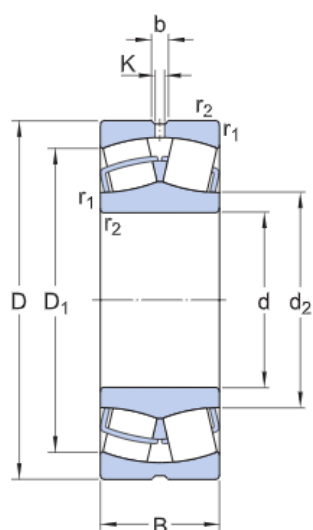
SKF performance class

SKF Explorer

Bore type

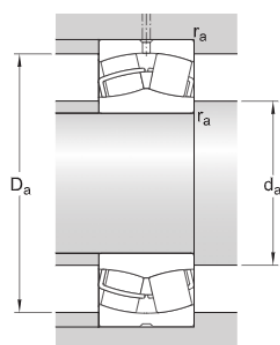
Cylindrical

Dimensions



d	1.969 in	Bore diameter
D	3.543 in	Outside diameter
B	0.906 in	Width
d ₂	≈ 2.362 in	Shoulder diameter of inner ring
D ₁	≈ 3.11 in	Shoulder/recess diameter of outer ring
b	0.217 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. 2.244 in	Diameter of shaft abutment
D _a	max. 3.268 in	Diameter of housing abutment
r _a	max. 0.039 in	Radius of fillet

Calculation data

Basic dynamic load rating	C	24 055 lbf
Basic static load rating	C ₀	24 279 lbf

Fatigue load limit	P_u	2 698 lbf
Reference speed		7 000 r/min
Limiting speed		9 500 r/min
Limiting value	e	0.24
Calculation factor	Y_1	2.8
Calculation factor	Y_2	4.2
Calculation factor	Y_0	2.8

Mass

Mass		1.367 lb
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