

31306Single row tapered rotte

bearing

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	72 mm
Width, total	20.75 mm
Width, inner ring	19 mm
Width, outer ring	14 mm
Contact angle	28.811°

Performance

Basic dynamic load rating	58.3 kN
Basic static load rating	50 kN
Reference speed	7 500 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without



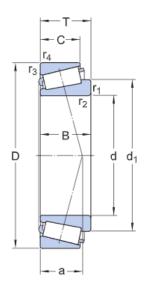
Lubricant

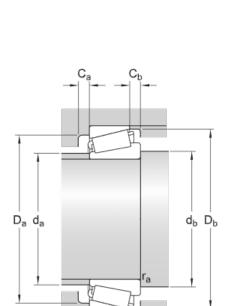
Relubrication feature Without



Technical Specification

SKF performance class	SKF Explorer
Dimension series	7FB





Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
Т	20.75 mm	Total width
d_1	≈ 52.75 mm	Shoulder diameter of inner ring
В	19 mm	Width of inner ring
С	14 mm	Width of outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension of inner ring
r _{3,4}	min. 1.5 mm	Chamfer dimension of outer ring
а	22.335 mm	Distance side face to pressure point

Abutment dimensions

d, max. 40 mm	Diameter of shaft abutment
d _{i min.} 38.5 mm	Diameter of shaft abutment
D _{min. 55} mm	Diameter of housing abutment
D max. 65 mm	Diameter of housing abutment
D _{min. 68}	Diameter of housing abutment
C min. 3 mm	Minimum width of space required in housing on large side face
C _I min. 6.5 mm	Minimum width of space required in housing on small side face
r _a max. 1.5 mm	Radius of shaft fillet



r _b max. 1.5	Radius of housing fillet
mm	

Calculation data

Basic dynamic load rating	С	58.3 kN
Basic static load rating	C_0	50 kN
Fatigue load limit	P_{u}	5.7 kN
Reference speed		7 500 r/min
Limiting speed		9 500 r/min
Limiting value	е	0.83
Calculation factor	Υ	0.72
Calculation factor	Y_0	0.4

Mass

Mass	0.39	κg



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