



# 30306

## 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
Contact angle	11.86 °
Outside diameter	72 mm
Width, inner ring	19 mm
Width, outer ring	16 mm
Width, total	20.75 mm

### Performance

Basic dynamic load rating	69.2 kN
Basic static load rating	56 kN
Limiting speed	10 000 r/min
Reference speed	8 000 r/min
SKF performance class	SKF Explorer

### Properties

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

Sealing type

Not applicable

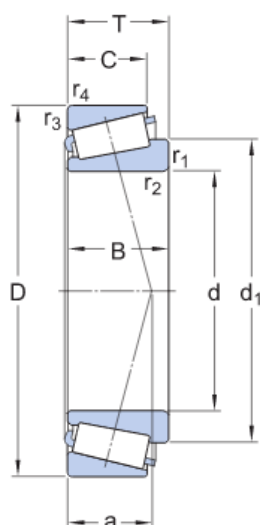
# Technical Specification

SKF performance class

SKF Explorer

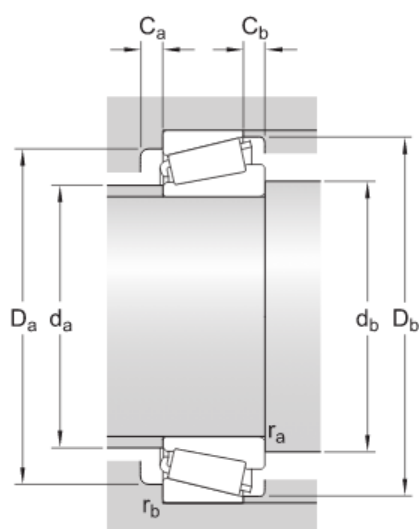
Dimension series

2FB



## Dimensions

d	30 mm	Bore diameter
D	72 mm	Outside diameter
T	20.75 mm	Total width
d <sub>1</sub>	≈ 48.45 mm	Shoulder diameter of inner ring
B	19 mm	Width of inner ring
C	16 mm	Width of outer ring
r <sub>1,2</sub>	min. 1.5 mm	Chamfer dimension of inner ring
r <sub>3,4</sub>	min. 1.5 mm	Chamfer dimension of outer ring
a	14.65 mm	Distance side face to pressure point



## Abutment dimensions

d <sub>e</sub>	max. 41 mm	Diameter of shaft abutment
d <sub>t</sub>	min. 38 mm	Diameter of shaft abutment
D <sub>i</sub>	min. 62 mm	Diameter of housing abutment
D <sub>e</sub>	max. 64.5 mm	Diameter of housing abutment
D <sub>j</sub>	min. 66 mm	Diameter of housing abutment
C <sub>e</sub>	min. 3 mm	Minimum width of space required in housing on large side face
C <sub>t</sub>	min. 4.5 mm	Minimum width of space required in housing on small side face
r <sub>a</sub>	max. 1.5 mm	Radius of shaft fillet

$r_b$ max. 1.5 mm	Radius of housing fillet
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## Calculation data

Basic dynamic load rating	C	69.2 kN
Basic static load rating	$C_0$	56 kN
Fatigue load limit	$P_u$	6.4 kN
Reference speed		8 000 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.31
Calculation factor	Y	1.9
Calculation factor	$Y_0$	1.1

## Mass

Mass	0.39 kg
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