

# A 4059/A 4138

## Single row tapered roller bearing, inch size



Single row tapered roller bearings, inch sizes, 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	14.989 mm
Contact angle	16.8 °
Outside diameter	34.988 mm
Width, inner ring	10.988 mm
Width, outer ring	8.73 mm
Width, total	10.998 mm

### Performance

Basic dynamic load rating	16.5 kN
Basic static load rating	13.2 kN
Limiting speed	22 000 r/min
Reference speed	17 000 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

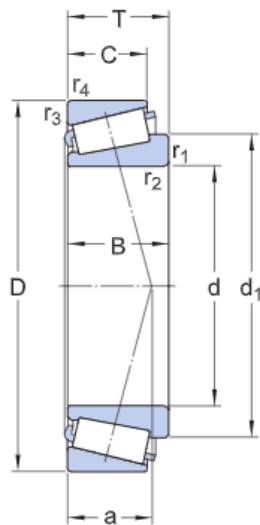
SKF performance class

SKF Explorer

Dimension series

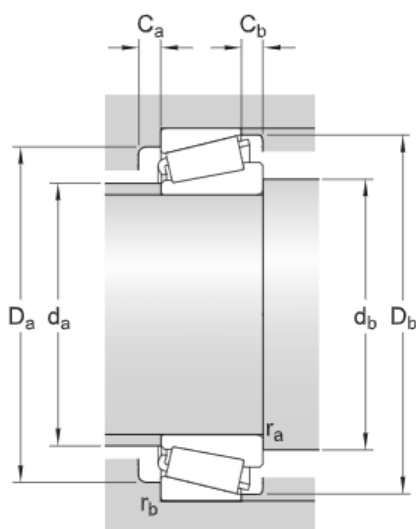
A 4000

## Dimensions



d	14.989 mm	Bore diameter
D	34.988 mm	Outside diameter
T	10.998 mm	Total width
d <sub>1</sub>	≈ 25.3 mm	Shoulder diameter of inner ring
B	10.988 mm	Width of inner ring
C	8.73 mm	Width of outer ring
r <sub>1,2</sub>	min. 0.8 mm	Chamfer dimension of inner ring
r <sub>3,4</sub>	min. 1.3 mm	Chamfer dimension of outer ring
a	8.077 mm	Distance side face to pressure point

## Abutment dimensions



d <sub>e</sub>	max. 20 mm	Diameter of shaft abutment
d <sub>t</sub>	min. 20.5 mm	Diameter of shaft abutment
D <sub>i</sub>	min. 28 mm	Diameter of housing abutment
D <sub>e</sub>	max. 29 mm	Diameter of housing abutment
D <sub>j</sub>	min. 31 mm	Diameter of housing abutment
C <sub>e</sub>	min. 2 mm	Minimum width of space required in housing on large side face
C <sub>t</sub>	min. 2 mm	Minimum width of space required in housing on small side face
r <sub>a</sub>	max. 0.8 mm	Radius of shaft fillet

$r_b$ max. 1.3 mm	Radius of housing fillet
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### Calculation data

Basic dynamic load rating	C	16.5 kN
Basic static load rating	$C_0$	13.2 kN
Fatigue load limit	$P_u$	1.29 kN
Reference speed		17 000 r/min
Limiting speed		22 000 r/min
Limiting value	e	0.46
Calculation factor	Y	1.3
Calculation factor	$Y_0$	0.7

### Mass

Mass	0.051 kg
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