

# 32007 X

## 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	35 mm
Contact angle	16.833 °
Outside diameter	62 mm
Width, inner ring	18 mm
Width, outer ring	14 mm
Width, total	18 mm

### 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
SKF performance class	SKF Explorer
Sealing	Without
Sealing type	Not applicable

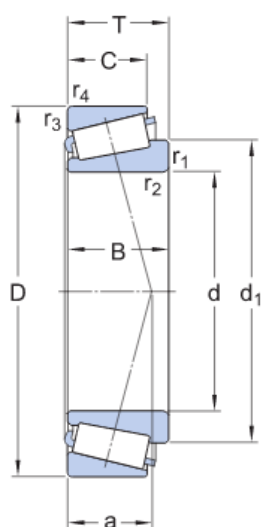
### Performance

Basic dynamic load rating	52.3 kN
Basic static load rating	54 kN
Limiting speed	10 000 r/min
Reference speed	8 500 r/min

# Technical Specification

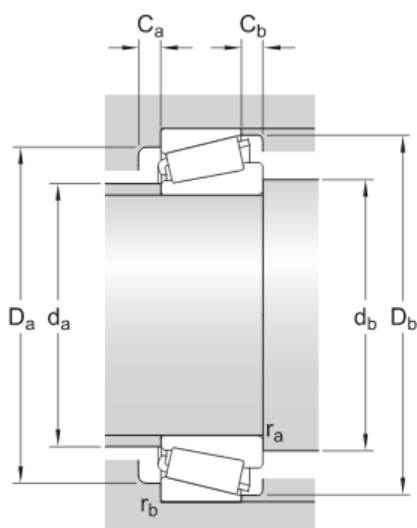
Dimension series

4CC



## Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
T	18 mm	Total width
$d_1$	$\approx 49.6$ mm	Shoulder diameter of inner ring
B	18 mm	Width of inner ring
C	14 mm	Width of outer ring
$r_{1,2}$	min. 1 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 1 mm	Chamfer dimension of outer ring
a	14.8 mm	Distance side face to pressure point



## Abutment dimensions

$d_a$	max. 41 mm	Diameter of shaft abutment
$d_t$	min. 42 mm	Diameter of shaft abutment
$D_i$	min. 54 mm	Diameter of housing abutment
$D_e$	max. 56 mm	Diameter of housing abutment
$D_l$	min. 59 mm	Diameter of housing abutment
$C_e$	min. 4 mm	Minimum width of space required in housing on large side face
$C_t$	min. 4 mm	Minimum width of space required in housing on small side face
$r_a$	max. 1 mm	Radius of shaft fillet
$r_b$	max. 1 mm	Radius of housing fillet

mm

### Calculation data

Basic dynamic load rating	C	52.3 kN
Basic static load rating	C <sub>0</sub>	54 kN
Fatigue load limit	P <sub>u</sub>	5.85 kN
Reference speed		8 500 r/min
Limiting speed		10 000 r/min
Limiting value	e	0.46
Axial load factor	Y	1.3
Axial load factor	Y <sub>0</sub>	0.7

### Mass

Mass		0.23 kg
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