

# T4DB 200

## 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	7.874 in
Outside diameter	10.63 in
Width, inner ring	1.339 in
Width, outer ring	1.063 in
Width, total	1.457 in

### Performance

Basic dynamic load rating	90 148 lbf
Basic static load rating	134 885 lbf
Limiting speed	2 200 r/min
Reference speed	1 700 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

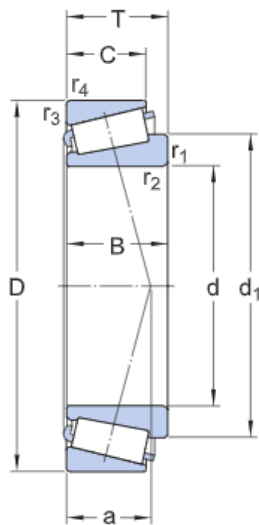
# Technical Specification

SKF performance class

SKF Explorer

Dimension series

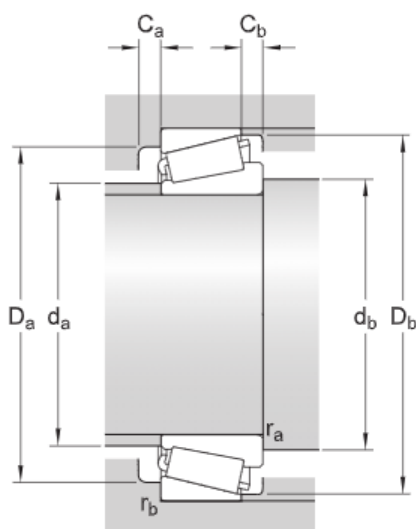
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## Dimensions

d	7.874 in	Bore diameter
D	10.63 in	Outside diameter
T	1.457 in	Total width
d <sub>1</sub>	≈ 9.165 in	Shoulder diameter of inner ring
B	1.339 in	Width of inner ring
C	1.063 in	Width of outer ring
r <sub>1,2</sub>	min. 0.118 in	Chamfer dimension of inner ring
r <sub>3,4</sub>	min. 0.118 in	Chamfer dimension of outer ring
a	2.094 in	Distance side face to pressure point

## Abutment dimensions



d <sub>a</sub>	max. 8.425 in	Diameter of shaft abutment
d <sub>b</sub>	min. 8.484 in	Diameter of shaft abutment
D <sub>ε</sub>	min. 9.882 in	Diameter of housing abutment
D <sub>ε</sub>	max. 10.059 in	Diameter of housing abutment
D <sub>t</sub>	min. 10.315 in	Diameter of housing abutment
C <sub>ε</sub>	min. 0.236 in	Minimum width of space required in housing on large side face
C <sub>t</sub>	min. 0.394 in	Minimum width of space required in housing on small side face
r <sub>a</sub>	max. 0.118 in	Radius of shaft fillet

$r_b$ max. 0.118 in	Radius of housing fillet
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### Calculation data

Basic dynamic load rating	C	90 148 lbf
Basic static load rating	$C_0$	134 885 lbf
Fatigue load limit	$P_u$	12 814 lbf
Reference speed		1 700 r/min
Limiting speed		2 200 r/min
Limiting value	e	0.48
Calculation factor	Y	1.25
Calculation factor	$Y_0$	0.7

### Mass

Mass	12.078 lb
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