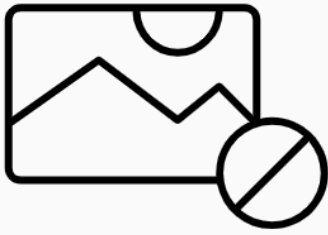


# 332168



## Double row tapered roller bearing with face-to-face design

Double row tapered roller bearings TDI have two outer rings (cups) and one double row inner ring with two roller and cage assemblies (double cone). They have rows of rollers arranged face-to-face (X-arrangement) and can accommodate heavy radial loads, axial loads in both directions and have a high degree of stiffness. They are typically used in gearboxes, hoisting equipment, rolling mills and machines in the mining industry, e.g. tunnelling machines.

- High radial load carrying capacity
- Accommodate axial loads in both directions
- High stiffness
- Low friction
- Supplied with an intermediate outer ring spacer

## Overview

### Dimensions

Bore diameter	11.811 in
Width, inner ring	4.134 in
Width, outer ring	4.134 in
Width, total	4.134 in

### Performance

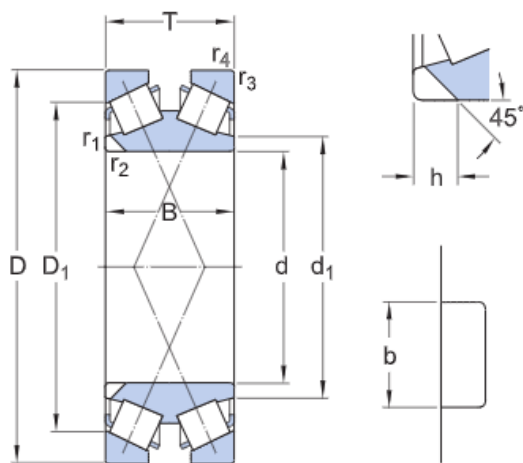
Basic dynamic load rating	241 894 lbf
Basic static load rating	458 610 lbf

### Properties

Arrangement of contact angle (double-row bearing)	Face-to-face (X)
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	2
Relubrication feature	Without
Sealing	Without

# Technical Specification

Design variant/feature	TDIS/NY
Bore type	Cylindrical



## Dimensions

d	11.811 in	Bore diameter
D	17.323 in	Outside diameter
T	4.134 in	Total width
B	4.134 in	Width of inner ring
d <sub>1</sub>	≈ 13.386 in	Diameter of shaft abutment
D <sub>1</sub>	≈ 14.843 in	Diameter of housing abutment
b	1.264 in	Inner ring locating slot width
h	0.875 in	Inner ring locating slot depth
r <sub>1,2</sub>	min. 0.157 in	Chamfer dimension of inner ring
r <sub>3,4</sub>	min. 0.157 in	Chamfer dimension of outer ring

## Calculation data

Basic dynamic load rating	C	241 894 lbf
Basic static load rating	C <sub>0</sub>	458 610 lbf
Fatigue load limit	P <sub>u</sub>	40 466 lbf
Limiting value	e	0.88
Calculation factor	Y <sub>1</sub>	0.77
Calculation factor	Y <sub>2</sub>	1.15
Calculation factor	Y <sub>0</sub>	0.8
Comparative radial load rating	C <sub>F</sub>	58 450 lbf
Comparative axial load rating	C <sub>Fa</sub>	50 357 lbf
Thrust factor	K	0.67

Mass

Mass	106.924 lb
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