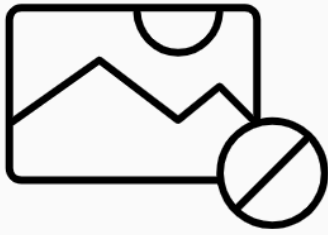


332167



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	15.748 in
Width, inner ring	9.449 in
Width, outer ring	9.449 in
Width, total	9.449 in

Performance

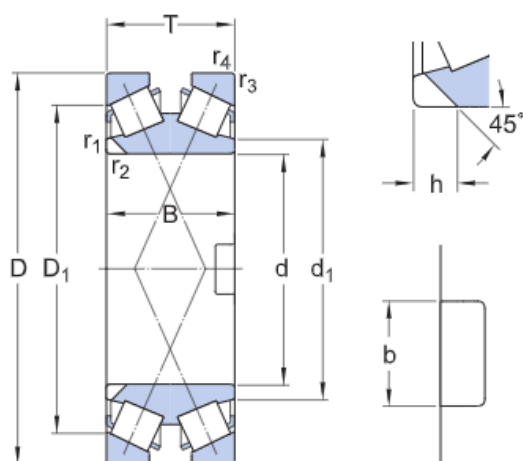
Basic dynamic load rating	879 003 lbf
Basic static load rating	1 832,193 lbf

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/N2Y
Bore type	Cylindrical



Dimensions

d	15.748 in	Bore diameter
D	25.591 in	Outside diameter
T	9.449 in	Total width
B	9.449 in	Width of inner ring
d ₁	≈ 17.953 in	Diameter of shaft abutment
D ₁	≈ 20.906 in	Diameter of housing abutment
b	2.528 in	Inner ring locating slot width
h	1.625 in	Inner ring locating slot depth
r _{1,2}	min. 0.252 in	Chamfer dimension of inner ring
r _{3,4}	min. 0.252 in	Chamfer dimension of outer ring

Calculation data

Basic dynamic load rating	C	879 003 lbf
Basic static load rating	C ₀	1 832,193 lbf
Fatigue load limit	P _u	139 382 lbf
Limiting value	e	0.88
Calculation factor	Y ₁	0.77
Calculation factor	Y ₂	1.15
Calculation factor	Y ₀	0.8
Comparative radial load rating	C _F	220 313 lbf
Comparative axial load rating	C _{Fa}	187 940 lbf
Thrust factor	K	0.67

Mass

Mass	639.341 lb
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