

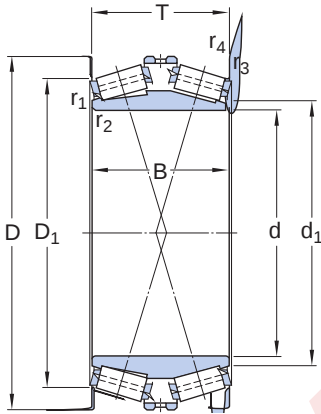
331676 A



NR double row tapered roller bearings are ready-to-mount units, manufactured with a predetermined axial clearance or preload. TDI design bearings have a double row inner ring and two outer rings that usually have an intermediate ring between them. Their roller sets are arranged face-to-face (X-arrangement). Design variants include features such as a helical groove in the bore, locating slots in the inner ring, or seals on both sides.

- High radial load carrying capacity
- Accommodate axial loads in both directions
- Relatively high stiffness
- Many variants, including shields, seals, a helical groove in the bore, or locating slots
- Ready to mount

Design variant/feature	TDI.1/Y2
Bore type	Cylindrical



Dimensions		
d	500 mm	Bore diameter
D	730 mm	Outside diameter
T	280 mm	Total width
B	280 mm	Width of inner ring
d ₁	552.4 mm	Shoulder diameter of inner ring (small side face)
D ₁	645.304 mm	Raceway diameter of outer ring (small side face)
r _{1,2}	min. 3 mm	Chamfer dimension of inner ring
r _{3,4}	min. 6 mm	Chamfer dimension of outer ring

Calculation data

Basic dynamic load rating	C	6 600 kN
Basic static load rating	C ₀	16 000 kN
Fatigue load limit	P _u	1 100 kN
Limiting value	e	0.31
Calculation factor	Y ₁	2.2
Calculation factor	Y ₂	3.3
Calculation factor	Y ₀	2.2
Comparative radial load rating	C _F	1 630 kN
Comparative axial load rating	C _{Fa}	492 kN
Thrust factor	K	1.89

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances:
bearings: Normal and CL7C, P5
inch bearings: Normal and CL
- Internal clearance

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit