

331945

NR double row tapered roller bearings are ready-to-mount units, manufactured with a predetermined axial clearance or preload. TDO design bearings have a double row outer ring and two single inner rings that usually have an intermediate ring between them. Their roller sets are arranged back-to-back (O-arrangement), which enables them to accommodate tilting moments. Design variants include features such as a helical groove in the bore or lubrication grooves in the side faces of the bearing rings.



- High radial load carrying capacity
- Accommodate axial loads in both directions
- Relatively high stiffness
- Accommodate tilting moments
- Many variants, including a helical groove in the bore or lubrication grooves in the side faces of the bearing rings
- Ready to mount

Design variant/feature	TDO/D	
	Dimensions	
	d	228.6 mm Bore diameter
	D	488.95 mm Outside diameter
	T	254 mm Total width
	C	152.4 mm Width of outer ring
	d ₁	359.5 mm Shoulder diameter of inner ring (large side face)
	D ₁	455.283 mm Raceway diameter of outer ring (large side face)
	r _{1,2}	min. 6.4 mm Chamfer dimension of inner ring
	a	326.405 mm Distance between pressure points

Calculation data

Basic dynamic load rating	C	3 143 kN
Basic static load rating	C ₀	4 500 kN
Fatigue load limit	P _u	390 kN
Limiting value	e	0.94
Calculation factor	Y ₁	0.72
Calculation factor	Y ₂	1.07
Calculation factor	Y ₀	0.7
Comparative radial load rating	C _F	735 kN
Comparative axial load rating	C _{Fa}	669 kN
Thrust factor	K	0.62

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