

BT2B 328130

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              |                                                               |
|------------------------|------------------|---------------------------------------------------------------|
|                        | Dimensions       |                                                               |
|                        | d                | 260 mm      Bore diameter                                     |
|                        | D                | 480 mm      Outside diameter                                  |
|                        | T                | 284 mm      Total width                                       |
|                        | C                | 220 mm      Width of outer ring                               |
|                        | d <sub>1</sub>   | 366 mm      Shoulder diameter of inner ring (large side face) |
|                        | r <sub>1,2</sub> | min. 6 mm      Chamfer dimension of inner ring                |
|                        | r <sub>3,4</sub> | min. 1.5 mm      Chamfer dimension of outer ring              |
|                        | a                | 233 mm      Distance between pressure points                  |
|                        |                  |                                                               |

Calculation data

|                                |                 |          |
|--------------------------------|-----------------|----------|
| Basic dynamic load rating      | C               | 4 330 kN |
| Basic static load rating       | C <sub>0</sub>  | 7 350 kN |
| Fatigue load limit             | P <sub>u</sub>  | 600 kN   |
| Limiting value                 | e               | 0.43     |
| Calculation factor             | Y <sub>1</sub>  | 1.6      |
| Calculation factor             | Y <sub>2</sub>  | 2.3      |
| Calculation factor             | Y <sub>0</sub>  | 1.6      |
| Comparative radial load rating | C <sub>F</sub>  | 1 080 kN |
| Comparative axial load rating  | C <sub>Fa</sub> | 456 kN   |
| Thrust factor                  | K               | 1.36     |

## 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