

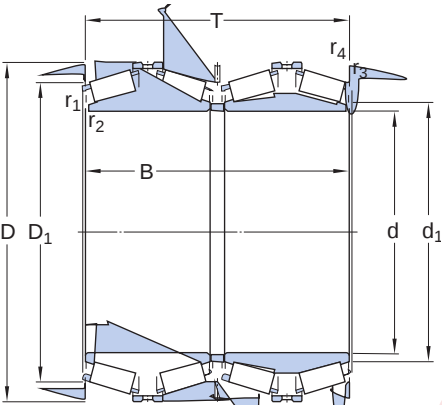
BT4B 331168 B

Four-row tapered roller bearings can accommodate combined heavy radial and axial loads at low to moderate speeds. They are used almost exclusively in work roll applications such as rolling mills. NR manufactures four-row tapered roller bearings in TQO and TQI designs, in many variants and with different features.



- Very high radial load carrying capacity
- Accommodate axial loads in both directions
- Axial space-saving solution for roll necks
- Low friction
- Long service life

Design variant/feature	TQO/WI
Bore type	Cylindrical



Dimensions		
d	269.875 mm	Bore diameter
D	381 mm	Outside diameter
B	282.575 mm	Total bearing width over inner rings
T	282.575 mm	Total bearing width over outer rings
d ₁	≈ 293 mm	Abutment diameter shaft
D ₁	≈ 339 mm	Abutment diameter housing
r _{1,2}	min. 3.3 mm	Chamfer dimension inner ring
r _{3,4}	min. 3.3 mm	Outer ring radius (chamfer)

Calculation data		
Basic dynamic load rating	C	3 080 kN
Basic static load rating	C ₀	7 500 kN

Fatigue load limit	P_u	640 kN
Comparative radial load rating	C_F	815 kN
Comparative axial load rating	C_{Fa}	132 kN
Thrust factor	K	1.76
Limiting value	e	0.33
Calculation factor	Y_1	2
Calculation factor	Y_2	3
Calculation factor	Y_0	2

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: bearings (Normal and CL7C), inch bearings
- Internal clearance

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit