

BT4B 332997/HA1

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	TQIT	
Bore type	Tapered 1:12	
	Dimensions	
	d	287.5 mm Bore diameter (large diameter of tapered bore)
	D	440 mm Outside diameter
	B	330.3 mm Total bearing width over inner rings
	T	284 mm Total bearing width over outer rings
	d ₁	≈ 349 mm Abutment diameter shaft
	D ₁	≈ 416 mm Abutment diameter housing
	r _{1,2}	min. 4 mm Inner ring radius (chamfer)
	r _{3,4}	min. 1 mm Chamfer dimension outer ring

Calculation data		
Basic dynamic load rating	C	4 180 kN
Basic static load rating	C ₀	8 500 kN

Fatigue load limit	P_u	720 kN
Comparative radial load rating	C_F	1 120 kN
Comparative axial load rating	C_{Fa}	193 kN
Thrust factor	K	1.68
Limiting value	e	0.35
Calculation factor	Y_1	1.9
Calculation factor	Y_2	2.9
Calculation factor	Y_0	1.8

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