

BT4-8182 E9/C675

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	TQON/GW	
Bore type	Cylindrical with helical groove	
	Dimensions	
	d	317.5 mm Bore diameter
	D	422.275 mm Outside diameter
	B	269.875 mm Total bearing width over inner rings
	T	269.875 mm Total bearing width over outer rings
	d ₁	≈ 335 mm Abutment diameter shaft
	D ₁	≈ 384 mm Abutment diameter housing
	r _{1,2}	min. 1.5 mm Chamfer dimension inner ring
	r _{3,4}	min. 3.3 mm Outer ring radius (chamfer)

Calculation data		
AGA performance class	AGA Explorer	
Basic dynamic load rating	C	3 924 kN

Basic static load rating	C_0	7 800 kN
Fatigue load limit	P_u	655 kN
Comparative radial load rating	C_F	950 kN
Comparative axial load rating	C_{Fa}	150 kN
Thrust factor	K	1.83
Limiting value	e	0.31
Calculation factor	Y_1	2.2
Calculation factor	Y_2	3.3
Calculation factor	Y_0	2.2

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