

ROBUST Series of Ultra high-Speed Angular Contact Ball Bearings

NSK's ROBUST Series of Ultra high-Speed Angular Contact Ball Bearings for machine tool main spindles. These bearings offer improved thermal robustness, low heat generation, improved seizure rates and low noise. This ensures that machine tools can operate at ultra-high speeds, increasing manufacturers productivity & reduced energy costs.

Product Features

- ROBUST design - For better durability under fluctuating conditions: Lowest temperature rise & improved thermal robustness
- SHX bearing steel improves seizure & wear resistance, fatigue life & grease life time
- Rolling element material can be steel or ceramic
- Bearing with Spinshot™II oil air lubrication system: ultra high speed & reduced air noise (3 to 4 dB quieter)

Benefits

- ROBUST Series
- 20% faster than conventional super precision bearing, up to 80% faster
- Ultra high-speed possible with position preload (2.5 Mil. dm* n)
- ROBUST Series with Polyamid cage
- Grease lubrication with larger internal space
- Lower friction, shorter running-in procedure
- ROBUST Series with PEEK cage
- Provides limiting speed over 2.5 Mil. dm* n

Condition Description

- High Speed
- High Temperature

Industries

- Machine Tools



80	BNR	10	H	TYN	DBB	EL	P3
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Description

80	Nominal Bore Diameter
BNR	Bearing Type Symbol
10	Dimension Symbol
H	Material
TYN	Cage
DBB	Arrangement
EL	Preload
P3	Accuracy