

INNOVATION  
**ROBUST™ SERIES ULTRAHIGH-SPEED SINGLE  
 ROW CRB**



ROBUST™ Series of Ultra High-Speed Single Row Cylindrical Roller Bearings for machining centres. Optimised materials and designs developed for high-speed operation with low temperature rise.



**Product Features**

- › New SHX heat resistant material option for high speed.
- › Three design options: RS (Standard bearing steel rings & rollers), RX (Special SHX bearing rings & SHX rollers) & RXH (Special SHX bearing rings & ceramic rollers)
- › Special design outer ring guided PEEK cage

**Product Benefits**

- › High-speed performance: twice that of conventional roller bearings.
- › SHX material enables a cost effective solution for high speed.
- › NSK offers SHX rollers as an alternative to ceramic rollers.
- › Ideally suited for the rear position of high-speed main shafts allowing perfect axial thermal displacement of the shaft.
- › Low heat generation – enabling longer lubricant life.
- › Outer ring temperature rise is 30% lower than conventional.
- › Longer fatigue life due to special SHX material (up to 4x ).
- › PEEK resin cage gives stable bearing rolling movement under high speed operating conditions.

**Condition Description:**

- High precision machining
- Ultra high speed
- High temperature

**Applications:**

- › Machine Tool

