

ROBUST Series Ultra High-Speed Single Row Cylindrical Roller Bearings

ROBUST Series of Ultra High-Speed Single Row Cylindrical Roller Bearings for machining centres. The optimised materials and designs were 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

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 Speed
- High Temperature

Industries

- Machine Tools
- Automation
- Automotive Production



N 10 12 RX TP KR CC0 P4

Description

N	Bearing Type
10	Dimension
12	Bore Number
RX	Internal Design Symbol and Material
TP	Cage
KR	Tapered Bore
CC0	Radial Clearance
P4	Accuracy