

Cylindrical Roller Bearings - ROBUST Series Ultra High-Speed Single Row CRB

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

Product Features

- New SHX heat resistant material 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 offers a cost effective solution for high speed operations
- NSK offers SHX rollers as an alternative to ceramic rollers
- Ideally suited for the rear position high-speed main shafts allowing perfect axial thermal displacement of the shaft
- Low heat generation – enabling longer lubricant life
- Outer ring temperature rise 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

- Automotive
- Machine Tools



N	10	12	RX	TP	KR	CC0	P4
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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