

SHX Steel

SHX is a heat-resistant & wear resistant steel resulting from NSK's special proprietary materials & heat treatment technology; it offers unrivalled ultra high-speed performance and extended fatigue life ideally suited for machine tools running to their maximum capacity.

Product Features

- NSK's Patented special steel
- Special heat treatment process offering superior hardness
- SHX material for angular contact bearings is complemented with ceramic balls as standard
- SHX material rollers available for cylindrical roller bearings; a cost effective solution over the use of ceramic rollers whilst delivering up to 85% of the ceramic speed (Over 2 Million dmn (= Bearing mean diameter (mm) X speed (rpm)))

Benefits

- Sub surface & surface fatigue life resistance increase by 4 times
- 20% higher speed compared to standard bearing steel
- Enhanced service life under low / poor lubrication regime
- Similar heat resistance to Aerospace M50 steel (300°C)
- Lower friction performance & indentation resistance
- Superior wear resistance is especially important for high speed applications

Condition Description

- High Temperature
- Low Friction

Industries

- Machine Tools



80 | BNR | 10 | X | TYN | DBB | EL | P4

Description

| | |
|-----|--------------|
| 80 | Bearing Bore |
| BNR | Bearing Type |
| 10 | Dimension |
| X | SHX Material |
| TYN | Cage Type |
| DBB | Arrangement |
| EL | Preload |
| P4 | Accuracy |