

SHX Steel

SHX is a heat and wear resistant steel resulting from NSK's special proprietary materials and heat treatment technology. SHX offers ultra high-speed performance and extended fatigue life. Ideally suited for machine tools running at maximum capacity.

Product Features

- 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
- Cost effective solution over the use of ceramic rollers
- Delivering up to 85% of the ceramic speed
- (Over 2 Million dmn (= Bearing mean diameter (mm) X speed (rpm)). No other bearing company can offer an alternative material to rival the performance of a ceramic hybrid roller bearing.

Benefits

- Sub surface & surface fatigue life resistance increase by 4x's
- 20% higher speed compared to standard bearing steel
- Enhanced service life under low / poor lubrication conditions
- Similar heat resistance to Aerospace M50 steel (300°C)
- Lower friction performance and indentation resistance
- Superior wear resistance

Condition Description

- High Temperature
- Low Friction

Industries

- Automotive
- Machine Tools



80	BNR	10	X	TYN	DBB	EL	P4
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Description

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