NSK Product Lineup for Machine Tools
NSK TOTAL SOLUTION

NSK is the only manufacturer to offer a complete development and supply service for the essential parts required for machine tools.

Ball Screws that have achieved top global brand status as a result of the cutting-edge technologies used, NSK Linear Guides™ that are manufactured using production technologies guaranteeing high precision and product quality, Spindles that offer easily the fastest rotation speed capability available, and are of the highest standard in their class worldwide, as well as our trademark Bearings, which represent the core technology and capability for all NSK products with an unshakeable, global product strength.

Our “Comprehensive Technical Capability” includes 4 key features.

We provide a “Solution” that best fits the needs of our clients.

Our “Global” support service provided with our products always considers a worldwide view.

Our “Development” capabilities allow us to achieve next generation products that are one step ahead.

And of course, NSK “Quality” wins the approval and trust of clients all over the world.

As the only manufacturer to offer a comprehensive development and supply service for machinery parts, NSK is able to meet the increasingly sophisticated needs of our clients, and we can assist with both a speedy commencement of operations for machine tools, as well as optimal overall operation.

We have two general catalogs on “Super Precision Bearings” and “Precision Machine Components” available, which contain detailed information related to our bearings and linear products.

Courtesy of Steven Engineering, Inc. - 230 Ryan Way, South San Francisco, CA 94080-5370 - Main Office: (650) 588-9200 - Outside Local Area: (800) 258-9200 - www.stevenengineering.com
Super Precision Bearings & Spindles

Grease lubrication for machine tools serving the Green generation.

NSK Super Precision Bearings and Spindles use a Grease Replenishing System that enables grease lubrication in high speed applications, an area where previously only oil lubrication was possible.

Greatly cutting down on the amount of lubricant and air used contributes to reduced energy requirements, and also helps to improve the operating environment by eliminating oil-mist and wind noise.

NSK's low torque products offer an environmentally friendly specification to reduce energy loss.

Sealed Angular Contact Ball Bearings
Sealed Angular Contact Thrust Ball Bearings
Robust Slim
High-speed, High Precision Angular Contact Ball Bearings

Provided with seals that prevent grease leakage, plus greater enclosed grease capacity due to a wide design. The grease performance has an extended service life that is 1.7 times longer than open types.

Benefits:
1. Long operating life
2. Low heat generation
3. Reduced assembly time

Cat.No.E1277
Cat.No.E1277
Cat.No.E1277

Sealed bearings now available for easier handling. The contact seal types have highly reliable designs that are more resistant to grease leakage and dust compared to open types.

Benefits:
1. Highly functional design
2. Highly reliable and highly dust resistant design
3. Easier handling

Cat.No.E1277

Offers the high running accuracy and low torque only achievable with ball bearings. This bearing has been newly designed specifically for machine tool swiveling spindle heads, with high moment stiffness that is on a par with crossed-roller bearings.

Benefits:
1. Rotational runout is less than 0.5 µm
2. High moment of stiffness
3. Compact design

Cat.No.E1277

Robust Slim

For machining centers

Grease Replenishing System

Achieved the world’s highest speed performance of 25,000 min⁻¹ in Class ISO-40 high-speed machining centers, with quiet, energy-efficient operation through grease lubrication.

Benefits:
1. High speed
2. Maintenance-free operation
3. Wide-range heavy cutting performance

Cat.No.E1257

For Machining Centers with Grease Lubrication

Provides grease lubrication for high speed equipment where oil-air lubrication systems, etc. were necessary until now. This new lubrication system breaks new ground in lubrication methods for high speed spindles.

Benefits:
1. High speed with a long operating life
2. Maintenance-free operation
3. Low noise & energy-saving

Cat.No.E1257

Ultra High-Speed Single Row Cylindrical Roller Bearings

The highly resistant PEKK cage with excellent heat and wear resistant SHX steel helps the bearing achieve a dimm value of 2.20 X 10⁶.

Benefits:
1. Low heat generation
2. Improved secure resistance
3. High-speed performance

Cat.No.E1257

Ultra High-Speed Angular Contact Ball Bearings

Ultra High-Speed Angular Contact Ball Bearings

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Ultra High-Speed Angular Contact Ball Bearings
NSK has been contributing to industrial growth globally with the world’s leading Ball Screws and an extensive product lineup of NSK Linear Guides.

NSK Ball Screws were developed through cutting-edge tribology (friction control technology), and NSK manufactures the largest volume in the world with its outstanding production and quality control techniques. In addition, the manufacturing process for NSK Linear Guides incorporates production technologies that ensure high precision and outstanding quality. We offer an extensive product lineup with high load capacities and excellent dust-resistant performance to meet the needs of a variety of industries.

Furthermore, NSK continues to contribute to industrial growth on a global scale.

**Benefits:**
- High speed
- Low noise
- High load capacity

**Benefits:**
- High rigidity and long operating life
- High accuracy
- Excellent responsiveness

**Benefits:**
- Short-term delivery
- High speed and low noise
- Dust resistance

**Benefits:**
- High rigidity and high load capacity
- High accuracy and long operating life
- Dust resistance and maintenance-free operation
- Ultra-flat profile with greater dimensional compatibility for installation (RB Series)

**Benefits:**
- High rigidity and high load capacity
- Impact load resistant
- High accuracy

**Benefits:**
- Long term maintenance-free operation
- Long operating life
- NSK K1™ for food processing or medical equipment also available

**Benefits:**
- Quiet, non-obtrusive sound and low dust emission while exhibiting smooth operation.

**Benefits:**
- High dust-resistance (multi-lip structure seal)
- Long operating life

**Benefits:**
- High rigidity and high load capacity
- Impact load resistant
- 3. High accuracy
Worldwide Sales Offices

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<br>For the latest information, please refer to the NSK website.

For more information about NSK products, please contact:

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NSK used environmentally friendly paper and printing methods for this publication.

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