Maximize
Time, Resources and Innovation

CORPORATE INFORMATION

The NSK Group is one of the world’s leading manufacturers of motion and control products. A global company with sales over $7.2 billion, NSK employs over 29,400 employees at 64 ISO-certified manufacturing facilities. Our 121 sales operations are located in 30 countries around the globe.

With over 90 years of experience, NSK products and solutions have been chosen by leading brands around the world. As an industry innovator, NSK can help you lead the way by delivering high-quality motion and control solutions. NSK conducts rigorous testing and uses only the world’s highest quality steel to manufacture products, ensuring unsurpassed performance and reliability.

DOMESTIC (NSK AMERICAS)

NSK manufactures and services innovative mechatronics and linear motion and control products in the U.S. NSK linear motion products can be found in many applications within the automotive, semiconductor, food and beverage, medical, machine tool and packaging industries.

To respond quickly and efficiently to the unique challenges of our customers, NSK distribution centers, manufacturing facilities and sales offices are strategically located throughout the Americas.

Customers can trust NSK to provide the highest quality mechatronics and linear motion products, total application solutions and world-class engineering support.

U.S. manufacturing gives NSK the flexibility to quickly respond to your needs – whether you require a next-day modification, or rush repair and maintenance services after the sale.

DOMESTIC CAPABILITIES/PLANT INFORMATION

NSK’s 77,950 sq. ft. manufacturing facility in Franklin, Indiana is dedicated to manufacturing precision products and serving the Americas markets. Certified to ISO 9001:2008 and ISO 14001:2004 standards, this state-of-the-art plant ensures shorter manufacturing lead times and quicker turnaround to meet the needs of customers from coast to coast.

RESOURCES

Visit www.nskamericas.com for engineering resources including CAD files, technical information, part numbering and more.
Ann Arbor, MI
NSK Americas Corporate Headquarters
Research & Development
Testing & Analysis
Engineering & Design
Marketing, Sales and Customer Service
Training Facility

Franklin, IN
Domestic Manufacturing
Engineering & Design
Marketing, Sales and Customer Service
Distribution Center
Integration Capabilities
Training Facility

San Jose, CA
Integration Capabilities
Engineering & Design
Marketing & Sales
Training Facility
Linear Guides

- Size range: 5 mm to 65 mm.
- Rail lengths up to 4 m.
- Interchangeable retained ball slides available from stock in select sizes.
- Maintenance-free operation with optional K1™ lubrication units.
- Dynamic load capacity up to 340,000 N.
- Wide range of accuracy and preload options.
- Linear guide types:
  - General application types: NH, NS and LW (wide) Series
  - High rigidity roller type: RA and RB (low profile) Series
  - Miniature ball type: PU/PE and LU/LE Series
- Material type:
  - Stainless steel
  - Carbon steel

- Standard operating temperature: 0° to 80°C.
- High temperature settings: up to 150°C.
- Accessories available: K1™ lubrication units, high-performance seals, rail covers, rail caps, and protector plates.
- RoHS-compliant.
- Standard and custom solutions for applications requiring:
  - High load, high rigidity, high speed, high accuracy/smoothness and lubrication requirements
**Ball Screws**

- World’s leading manufacturer of precision ground ball screws.
- Shaft diameter range: 4 mm to 200 mm.
- Shaft length range: up to 13.5 m.
- Lead range: 0.5 mm to 100 mm
- Accuracy: C0 to Ct10
- Preload options:
  - P type: oversized balls
  - Z type: offset lead
  - D type: double nut
- Recirculation system types: tube, deflector, end cap, and tangential pickup.
- Precision ground and rolled ball versions offer:
  - Low noise
  - High speed
  - Compact design
  - High load and rigidity
- Material type:
  - Stainless steel
  - Carbon steel
- Accessories available:
  - Support units
  - K1™ lubrication units
  - High-performance seals

**Monocarrier™ Actuators**

- Easy-to-install ball screw, linear guide and support units integrated into one structure.
- Product benefits:
  - Long life
  - Maintenance-free operation
  - Corrosion-resistant coating
- Product types:
  - Lightweight ball type: MCM Series
  - Rigid ball type: MCH Series
  - Super high load capacity roller type: ToughCarrier™ (TCH) Series
- Lead Range: 1 mm to 30 mm.
- Stroke Range: 50 mm to 1200 mm.
- Accuracy types: high and precision.
- Material type: chrome-plated.
- K1™ lubrication units are a standard feature.
- Accessories available: covers, sensor units, motor mounts, and combining brackets.
- Custom designs available.
Robot Modules

- Integrated use of NSK ball screws, linear guides and Monocarrier™ actuators.
- Easily combined into multi-axis systems.
- Completely sealed unit.
- Maintenance-free operation with K1™ lubrication units.
- High accuracy and repeatability.
- Stroke range: 100 mm to 2000 mm.
- Lead range: 10 mm to 40 mm.
- Motor mounting options: left, right or straight.
- Motor type options: NEMA 23, 34 and metric motors.
- Load types: small, medium, and heavy.
- Accessories available:
  - Motor-mounting kits
  - Multi-axis combining brackets
  - Support slide
  - Module-mounting plates
  - Limit and home-sensor kits

Megatorque™ Motors

- Direct-drive technology.
- Maintenance-free operation.
- Compact design with through-hole.
- Accurate, micron-level repeatability with no backlash.
- Incorporates absolute positioning sensor with 2.62 million counts p/revolution.
- Product types:
  - PS Series: high-speed positioning for light to medium loads
  - PN/Z Series: low profile for positioning heavy loads
- Easy installation.
- Motor height range: 35 mm to 170 mm.
- Torque output range: 6 to 180 (Nm).
- Maximum rotational speed: 10s⁻¹.
- Accessories available:
  - Drive unit connectors and mounting brackets
  - RS-232C cable
  - RS-232C hand terminal
Seals
NSK offers a variety of seal options depending on your application. Choose from high-temperature, high-performance and/or contact seals. Contact NSK for more information.

K1™ Lubrication Units
K1™ - long-term, maintenance-free lubrication unit available for ball screws, linear guides, robot modules and Monocarriers™.

Special Coatings
Special coatings can be applied to NSK bearings, ball screws, and linear guides.

Special Environment Types
- Corrosive
- Clean-room
- High-temperature
- Vacuum
- Water
- Acid

Lubrication Options
- Clean-room grease
- Food or medical grade K1™ lubrication units
- High-speed and high-temperature grease options

Refer to catalog E1258b: SPACEA bearings, ball screws and linear guides for special environments.

Integration and Custom Assemblies
Domestic capabilities allow NSK to combine multiple components with core NSK products to create complete and large systems.

Custom assembly examples:
- Support-unit installation
- Motor installation
- Multi-axis system assembly

Please contact NSK for more information regarding custom needs.

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com
Worldwide Sales Offices

NSK Ltd. Headquarters, Tokyo, Japan  www.nsk.com
Asia Business Strategic Division-Headquarters
Industrial Machinery Bearings Division-Headquarters
Automotive Division-Headquarters
Needle Roller Bearings Strategic Divisions-Headquarters
Precision Machinery & Parts Divisions-Headquarters

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Korea Korea Co., Ltd.
Seoul-2-gu, Changwon

Malaysia:
NSK Bearings (Malaysia) Sdn. Bhd.
Kuala Lumpur

NSK Micro Precision (M) Sdn. Bhd.
Malaysia Plant

New Zealand:
NSK New Zealand Ltd.
Auckland

Philippines:
NSK Representative Office
Makati City

Singapore:
NSK International (Singapore) Pte Ltd.
Singapore

NSK Singapore Pte Ltd.
Singapore

Thailand:
NSK Bearings (Thailand) Co., Ltd.
Bangkok

NSA NSK Bearings Systems Co., Ltd.
Chachoenprakarn

NSK Asia Pacific Technology Center (Thailand) Co., Ltd.
Chonburi

Vietnam:
NSK Representative Office
Ha Noi

Europe:
NSK Europe Ltd.
(European Headquarters)
Maidenhead, UK

NSK France S.A.S
Paris

Germany:
NSK Deutschland GmbH
Düsseldorf

NSK Steering Systems Europe Ltd.
Stuttgart

Neue Weg Fertigung GmbH
Munderkingen

Italy:
NSK Italia S.p.A.
Milano

Industria Coscotti S.p.A.
Torino Plant

Netherlands:
NSK European Distribution Centre B.V.

Poland:
NSK Polska Sp. z o.o.
Warsaw Branch

Japan:
NSK Ltd. Saka S.A.
Kobe

NSK European Technology Center, Poland Office
Kievo

Spain:
NSK Spain S.A.

Turkey:
NSK Sakarya Orta Dogu Tic. Ltd.Sti.

United Kingdom:
NSK Bearings Europe Ltd.

NSK Europe Ltd.

NSK UK Ltd.

NSK Americas, Inc. (American Headquarters)

Argentina:
NSK Argentina SRL

Buenos Aires

Brazil:
NSK Brasil Ltda.

São Paulo

Canada:
NSK Canada Inc.

Maidenhead, UK

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NSK Rodamientos Mexicana, S.A. de C.V.

Mexico City

United States of America:
NSK Corporation

Ann Arbor

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Maidenhead, UK

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Spain:
NSK Spain S.A.

Turkey:
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Ann Arbor

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