NSK’s Business

Industrial Machinery Business
The Industrial Machinery Business is involved in operations related to two product categories, namely industrial machinery bearings and precision machinery and parts. Industrial machinery bearings meet a wide range of demands in all industries and come in a variety of types, ranging from miniature to extra-large size. On the other hand, represented by linear motion products, such as ball screws and linear guides as well as mechatronics products such as XY Tables and MEGATORQUE MOTOR™, precision machinery products play key roles in machine tools and semiconductor/LCD production equipment, which require precise positioning. Possessing thorough knowledge of industrial characteristics, operating environments, and national/regional differences, both businesses respond appropriately to a variety of needs.

NSK Products: Playing a Key Role in an Array of Industries

Wind Turbines
Integrated cylindrical roller bearings

Home Appliances
Long life ball bearings

Mining and Construction
NSKHPSTM spherical roller bearings

Industrial Motors
New ceramic coated insulating bearings for industrial motors

Industrial Robots
Highly rigidity thin-section angular contact ball bearings

Railways
Large spherical roller bearings for wind turbine main shaft
Axle tapered roller bearings

Machine Tools
Ball screws for high-speed machine tools HMS series
High-speed integrated motor spindle for machining centers
NSK Linear Guides™ roller guide RA series

Steel
Sealed four-row tapered roller bearings

Pumps and Compressors
NSKHPSTM high load capacity angular contact ball bearings
High load capacity deep groove ball bearings

Semiconductor Production Equipment
NSK Linear Guides™ NH series, NS series

NSK’s Value Creation Process

Sales ¥991.4

Other 3%  Industrial Machinery Bearings 21%
Precision Machinery and Parts 6%
Other Asia 14%
China 20%
Europe 13%
Ball Screws for Electric Brakes

Automotive Components

The automotive components business includes those for automatic transmission (AT) products, electric power steering (EPS) and ball screws for electric brakes. Amid the accelerating innovation in automobile technologies, such as power source diversification and autonomous driving, we are advancing the development of new technologies and products, creating new value and making proposals.

Running

Hub Unit Bearings

Hub unit bearings are fundamental components that support the chassis while facilitating the rotation of the wheels. They are exposed to rainwater, mud, snow and other elements, and under such extreme environments realize excellent durability and smooth rotation.

Stopping

Ball Screws for Electric Brakes

Along with the trend of making it mandatory to equip vehicles with automatic emergency braking, there is an increasing shift toward electrification at the point of brake booster function. The ball screw is a promising type among several types of electric brake boosters. NSK, putting to use its global top share of ball screw technology, will continue to contribute to raising the level of safety in the brake field.

Turning

Electric Power Steering (EPS)

With the recent trend in advanced driving assistance and autonomous driving, electric power steering systems are increasingly important. In addition to the primary column-type EPS, the Company is making progress on the development of a rack-type EPS that puts to use NSK’s technological excellence. This is contributing to a broad product lineup and driving that is safe and comfortable.

NSK Products: Supporting Automobile Running, Turning and Stopping

Automotive Bearings / Automotive Components

Transmission Products

In efficiently conveying engine power to the tires, NSK products are critical to the transmissions that need to operate smoothly and with flexibility. We engage in Four Core Technologies plus One, namely tribology, materials, numerical simulation, mechatronics and manufacturing engineering, and offer products that enhance the efficiency of transmissions, making them increasingly compact and lightweight.

Automotive Components

Ball Screws for Electric Brakes

Against a backdrop of making it mandatory to equip vehicles with automatic emergency braking, there is an increasing shift toward electrification at the point of brake booster function. The ball screw is a promising type among several types of electric brake boosters. NSK, putting to use its global top share of ball screw technology, will continue to contribute to raising the level of safety in the brake field.

Turning

Electric Power Steering (EPS)

With the recent trend in advanced driving assistance and autonomous driving, electric power steering systems are increasingly important. In addition to the primary column-type EPS, the Company is making progress on the development of a rack-type EPS that puts to use NSK’s technological excellence. This is contributing to a broad product lineup and driving that is safe and comfortable.

Running

Hub Unit Bearings

Hub unit bearings are fundamental components that support the chassis while facilitating the rotation of the wheels. They are exposed to rainwater, mud, snow and other elements, and under such extreme environments realize excellent durability and smooth rotation.

Stopping

Ball Screws for Electric Brakes

Along with the trend of making it mandatory to equip vehicles with automatic emergency braking, there is an increasing shift toward electrification at the point of brake booster function. The ball screw is a promising type among several types of electric brake boosters. NSK, putting to use its global top share of ball screw technology, will continue to contribute to raising the level of safety in the brake field.

Turning

Electric Power Steering (EPS)

With the recent trend in advanced driving assistance and autonomous driving, electric power steering systems are increasingly important. In addition to the primary column-type EPS, the Company is making progress on the development of a rack-type EPS that puts to use NSK’s technological excellence. This is contributing to a broad product lineup and driving that is safe and comfortable.