THK devoted itself to the task of applying rolling motion to the linear motion units of machines, which was long said to be impossible, and used its original technology to introduce Linear Motion Guide (LM Guide) products to the world for the first time in 1972. This achievement led to high-precision, high-speed, energy-saving manufacturing equipment, which dramatically improved machine performance. THK is now broadening its applications to the fields of seismic isolation/damping devices, robotics, transportation and medical equipment, and renewable energy. THK is striving to further improve its technology to leave a beautiful environment for the next generation and contribute to the creation of an affluent society.

**First LM Guide Product**
- **Model LSR**
  - 1972
  - Adding a mounted base to the LBS ball spline enabled it to handle heavy loads. Made compact, energy-saving, high-speed, and high-precision equipment possible, contributing to a reduction in the total cost.

**Four-way Equal-load LM Guide**
- **Model HSR**
  - 1981
  - Became the world standard for LM Guides.

**Caged Ball LM Guide**
- **Model SSR**
  - 1996
  - The ball cage prevents balls from colliding with each other, reducing noise and allowing for a longer maintenance-free period than previous products.

**Foundation**
- (Near Aburamen Park in Meguro, Tokyo. Includes TOKYO Branch.)
  - April 10, 1971

**KOFU Plant completed (First domestic plant)**
- 1977

**THK America established (First international sales branch)**
- 1981

**THK listed on First Section of Tokyo Stock Exchange**
- 1989

**Wind Power Generation**
- 2010
  - Developed a low-torque unit that will rotate even in a light breeze. Plays a role in preventing global warming.

**Robot Hand**
- **Model TRX**
  - 2015
  - Using a miniature ball screw allowed for a compact design and increased gripping power.

**Mounted base**
- **Ball Spline**
  - **Model LBS**
    - 1971
    - By adding a groove for load-bearing balls to roll along, the permissible load increased about 13 times, and the life increased about 2,200 times compared to the previous product (linear bush).

**Link Ball**
- **Model RBI/Model RBL**
  - 1971
  - Used in the connection between the stabilizer and suspension, it increased the stability of automobiles while driving. A die-cast aluminum design was chosen to make the part light-weight, improving safety and fuel efficiency.

**Electric Actuator**
- **Model KR**
  - 1990
  - Compact actuator with a U-shaped outer rail containing an inner block that integrates an LM block and ball screw nut. Achieved a substantial reduction in man-hours for design.

**Cross Roller Ring**
- **Model RA**
  - 1982
  - Able to bear loads from every direction, the cross roller ring is optimal for joints and rotating parts on robots, rotary tables in machining centers, semiconductor manufacturing equipment, medical equipment, etc.
THK devoted itself to the task of applying rolling motion to the linear motion units of machines, which was long said to be impossible, and used its original technology to introduce Linear Motion Guide (LM Guide) products to the world for the first time in 1972. This achievement led to high-precision, high-speed, energy-saving manufacturing equipment, which dramatically improved machine performance. THK is now broadening its applications to the fields of seismic isolation/damping devices, robotics, transportation and medical equipment, and renewable energy. THK is striving to further improve its technology to leave a beautiful environment for the next generation and contribute to the creation of an affluent society.

Looking at 45 Years of History and into the Future

- **Technology Center established**
  - 2005

- **Server Power Generation**
  - 2010
  - Developed a low-torque unit that will rotate even in a light breeze. Plays a role in preventing global warming.

- **Robot Hand Model TRX**
  - 2015
  - Using a miniature ball screw allowed for a compact design and increased gripping power.

- **Cross Roller Ring Model RA**
  - 1982
  - Able to bear loads from every direction, the cross roller ring is optimal for joints and rotating parts on robots, rotary tables in machining centers, semiconductor manufacturing equipment, medical equipment, etc.

- **Seismic Isolation Table Model TSD**
  - 2007
  - Protects lives and property from earthquakes.

- **Caged Ball LM Guide Model SSR**
  - 1996
  - The ball cage prevents balls from colliding with each other, reducing noise and allowing for a longer maintenance-free period than previous products.

- **Mounted base Ball Spline Model LBS**
  - 1971
  - By adding a groove for load-bearing balls to roll along, the permissible load increased about 13 times, and the life increased about 2,200 times compared to the previous product (linear bush).

- **Link Ball Model RBI/Model RBL**
  - 1971
  - Used in the connection between the stabilizer and suspension, it increases the stability of automobiles while driving. A die-cast aluminum design was chosen to make the part lightweight, improving safety and fuel efficiency.
In the development of new business areas, we are accelerating our expansion into areas closely related to consumers, like automotive parts, seismic isolation/damping devices, medical equipment, aerospace, robotics, and renewable energy. To bring about great demand in the field of consumer goods, we will continue to polish our core linear motion technology and accumulated know-how to further accelerate our development into new business areas.

Up to this point, we have been developing our business around two main strategies, full-scale globalization and development of new business areas, but we have added a new strategy around which to focus—change in business style, in which we adapt to developments in technology like the IoT. By making full use of the IoT, cloud technology, AI, and robotics, we will change the way we do business and reform our systems in terms of for whom, what, where, and how we sell and produce, and in doing so, further expand our range of business.

Development of new business areas

Change in business style

Industrial machinery

Machine Tools & Semiconductor Manufacturing Equipment
By using linear motion guide products such as the LM Guide and ball screw, machinery can achieve higher precision, greater speed, and longer life.

Robotics
Not just used in industry, but also in a wide range of other fields, including nursing, social services, medicine, etc.

Seismic Isolation/Damping Devices
Protect lives and property—private homes and other buildings, servers or other IT equipment, and works of art—from earthquake damage.

Renewable Energy
Aids in the prevention of climate change through wind and water power generation.

Automotive & transportation

Automotive
Making vehicles increasingly safe and lightweight to contribute to greater stability during operation.
We are building a unified system of sales and production in four areas of demand: Japan, Europe, Asia, and the Americas. In recent years, we have been working to expand our sales networks and production capabilities in expectation of mid-to-long term demand increases forecasted for China and other emerging nations. We will also be growing our sales networks to ensure we secure the demand of the widening customer base in developed nations.

**Full-scale globalization**