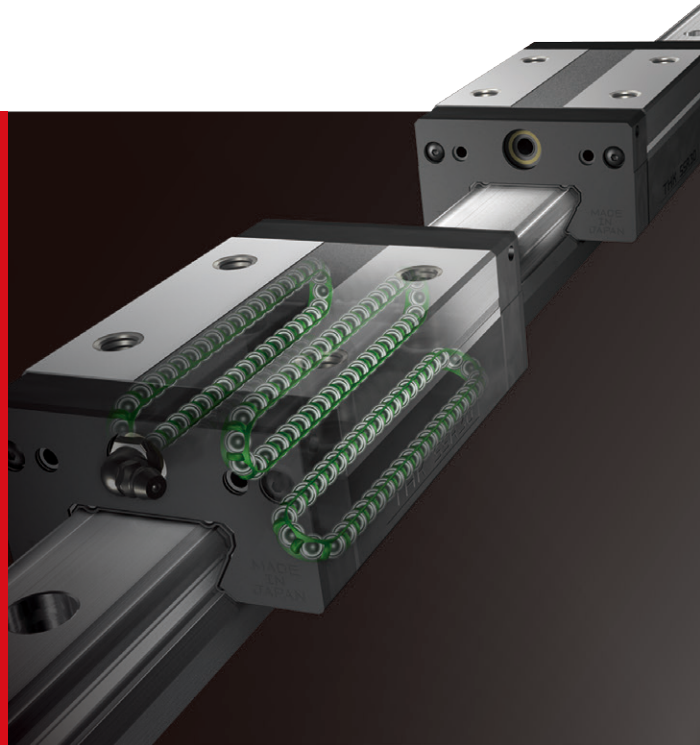
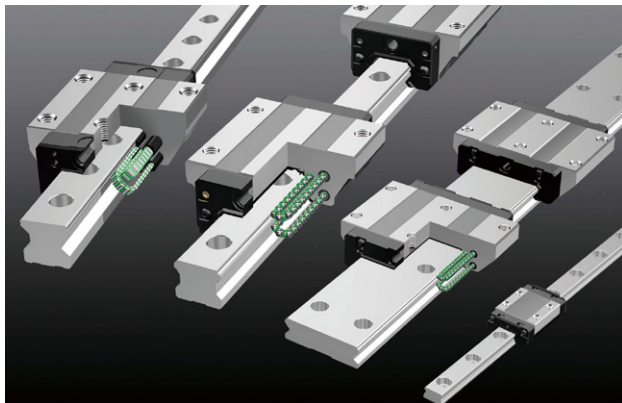


Innovative Products

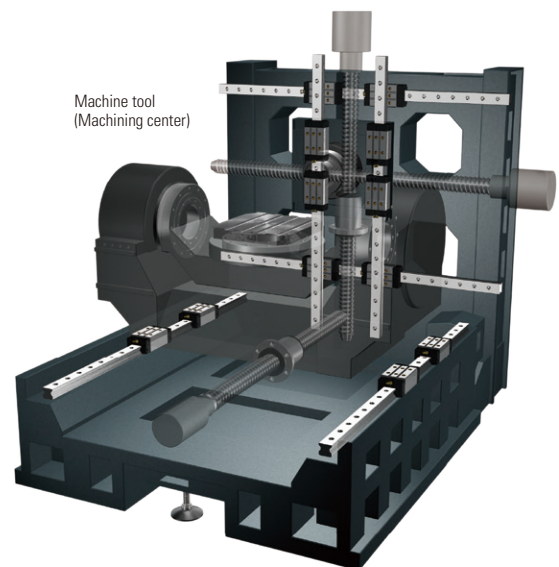
THK was the first company in the world to develop the linear motion (LM) guide, which is based on an original concept and innovative technology. LM guides are machine components vital to mechatronics systems, and they are used in various industries. THK also develops, produces, and supplies to the world a range of other vital machine components, including ball splines and ball screws, as well as automotive and transportation components, such as L&S (linkage and suspension) components.



LM Guides

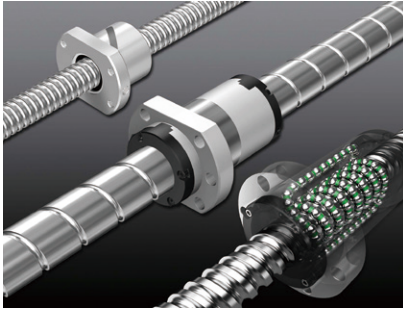


LM guides are machine components that convert sliding motion into rolling motion, enabling machine parts to move smoothly, easily, and precisely in a straight line. As a result, LM guides help to enhance the precision, rigidity, and speed of a wide range of industrial machinery. In 1996, THK developed the next generation of LM guides: the Caged Ball LM Guide. Later, in 2001, the Company also introduced the Caged Roller LM Guide to the market to continue expanding the applications of the LM guide. The cages are resin parts that hold and guide the balls or rollers as they move. The

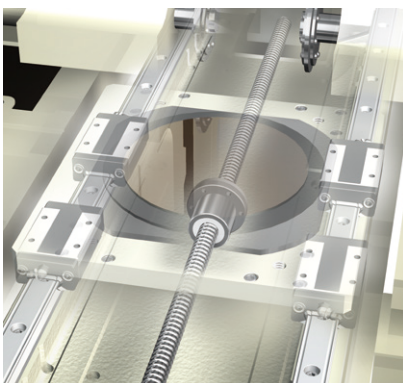


use of cages reduces noise and friction by preventing direct contact between the balls or rollers. This allows for a longer service life, reduced noise, and an extended period of maintenance-free operation in comparison with previous LM guides. LM guides with caged ball and caged roller technology are now vital components of many types of manufacturing equipment, such as machine tools and semiconductor production equipment.

Ball Screws



Ball screws are machine components that function by causing a large number of balls to circulate between a screw shaft and a nut. This mechanism efficiently converts rotary motion into linear motion. With the Caged Ball Screw, THK has incorporated caged ball technology into their existing ball screw designs, thus helping to achieve longer life with reduced noise and provide an extended maintenance-free period. As a result, these products are now essential elements in machine tools, industrial robots, semiconductor production equipment, and other manufacturing equipment. THK also offers ball screws that are designed to support high loads, making them ideally suited for replacing the hydraulic cylinders used in equipment such as injection molding machines, presses, and die casting machines.

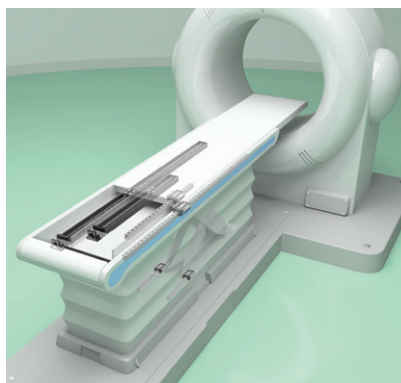


Semiconductor production equipment (Dicing saw)

Electric Actuators

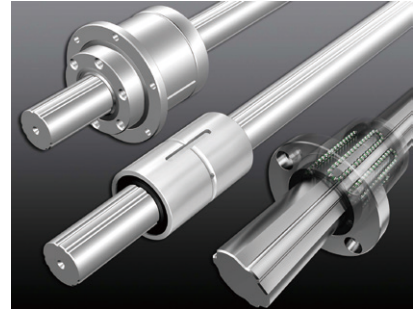


Electric actuators are hybrid products combining a guide component such as an LM guide with a ball screw, linear motor, or other drive component. In industries such as electronics, there is an increasing need to shorten development and manufacturing lead times. Modularization allows these electric actuators to meet such requirements by simplifying the design and reducing assembly time. THK offers a varied lineup of electric actuators ranging from basic, low-priced units to high-end components designed to operate with high precision or perform to clean room specifications. Such advanced electric actuators have become indispensable parts in equipment used in the manufacture or inspection of semiconductors and liquid crystal displays.

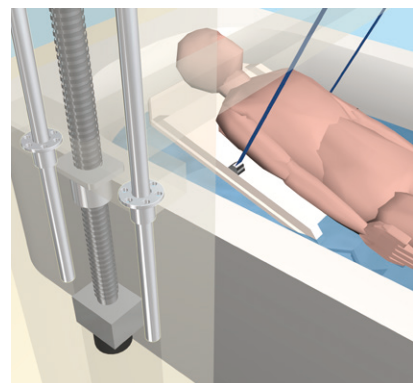


Medical equipment (CT scanner)

Ball Splines



Developed in 1971, the same year that THK was established, ball splines were the precursor to the LM guide. Balls roll along a rounded groove machined into the spline's shaft. This critical advance boosts the load that the device can tolerate and permits the transmission of torque, resulting in a revolutionary linear motion system. Compared with the products that came before, these ball splines boosted the permissible load by a factor of 13 and service life by a factor of 2,200. Today, these high-performance ball splines are used in a variety of equipment, including industrial robots, medical devices, and chip mounters.

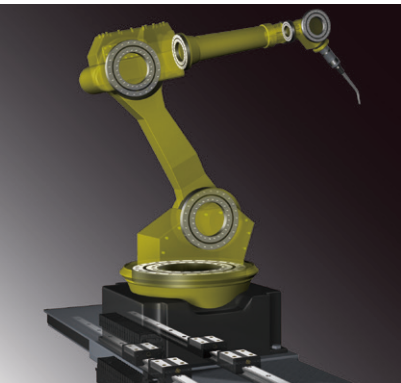


Assistive device for bathing

Cross Roller Rings



Cross roller rings are roller bearings that feature internal cylindrical rollers arranged orthogonally so as to facilitate load bearing in every direction. The incorporation of the spacer cages between rollers prevents roller skew and friction between the rollers. Possessing high rigidity while maintaining a compact structure, cross roller rings are used in the rotating parts of many different types of industrial machinery, including the joint areas and rotating parts of industrial robots, as well as machining center swivel tables. Other applications include rotating parts of medical equipment and semiconductor production equipment.



Industrial robot

Automotive and Transportation Equipment-Related Products

Ever since the Company was founded, THK has continued to expand its lineup of L&S products, such as the link ball, a spherical slide bearing with a ball stud. Made from aluminum, THK's link balls are highly resistant to corrosion and wear. They are also considerably lighter than traditional steel parts. The Company's lineup of link balls has been widely adopted for use in a number of undercarriage systems, such as height sensors and the joint sections connecting stabilizers to the suspension.

Furthermore, Group companies THK RHYTHM and THK RHYTHM AUTOMOTIVE are actively engaged in producing L&S products, including steering and suspension components. In addition to the cold-forged ball joints that have been its mainstay, THK RHYTHM is expanding the range of products it offers to include aluminum links that integrate ball joints with aluminum suspension links. These critical safety components are held to the highest standards of quality and performance and help to enhance the safety and comfort of automobiles.

