

LINE SHEET



HelixLinear.com | 216-485-2232

LEAD SCREWS

A lead screw is a mechanical device that converts rotary motion into linear motion by using a threaded shaft and a matching nut. Commonly used in precision positioning applications, lead screws offer smooth and accurate movement, making them ideal for automation systems, CNC machinery, and linear actuators.

Acme Screw Actual Range: 1/4" - 2 1/4" Diameter

Acme Screws

Trapezoidal Screws

Lead Screws

Lead Screw Nuts

Twin Lead Screws

Custom Lead Screws



BALL SCREWS

A ball screw is a mechanical device that converts rotary motion into linear motion with high efficiency by using recirculating ball bearings between the threaded shaft and nut. This design reduces friction and increases precision, making ball screws ideal for applications requiring smooth motion, high load capacity, and long service life, such as CNC machines, robotics, and aerospace systems.

Ball Screw Actual Range: 0.375" - 1.00" Diameters

Metric Ball Screws

Metric Ball Nuts

Metric Ball Screw Assemblies

Inch Ball Screws

Inch Ball Nuts

Inch Ball Screw Assemblies

Custom Ball Screws



LINEAR ACTUATORS

A linear actuator is a device that converts rotary motion into linear motion to create precise and controlled movement in a straight line. Used in automation, robotics, and industrial machinery, linear actuators can be powered by electric, hydraulic, or pneumatic systems to push, pull, lift, or position loads with accuracy and efficiency.

Captive Stepper Motor Actuators

Non-Captive Stepper Motor Actuators

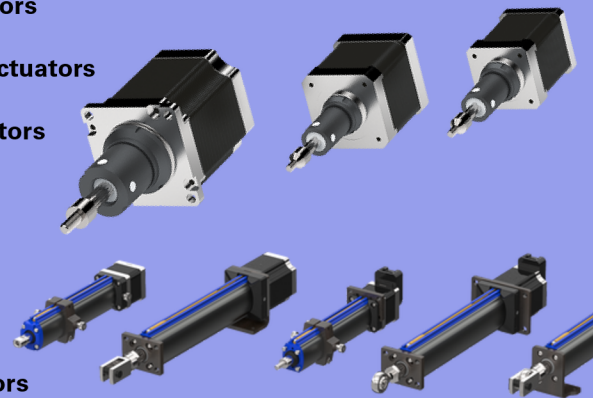
External Stepper Motor Actuators

Ball Screw Actuators

Electric Cylinders

Profile Rail Linear Actuators

Micro Precision Linear Actuators



LINEAR GUIDANCE

A mechanical system designed to facilitate smooth and precise linear motion along a fixed path. It typically consists of a rail and a moving carriage that uses rolling elements, such as ball bearings or rollers, to minimize friction. Linear slides are commonly used in CNC machines, automation systems, and robotics for high-precision movement and load-bearing applications.

Linear Slides 200 Series

Linear Slides 300 Series

Telescoping Linear Guide Rail

Miniature Linear Guides

Miniature Precision Torque Splines

