

Solutions for the Steel & Manufacturing Industries

Rugged Motion Systems
for Heavy-Duty
Performance

Precision Motion Built for Strength and Scale

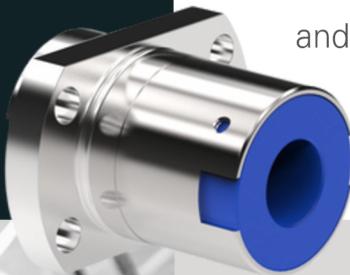
In the steel and heavy manufacturing industries, motion systems must operate under extreme conditions, handling high loads, harsh environments, and continuous cycles without compromising on precision.



Helix Linear Technologies delivers motion solutions built for the scale and toughness of industrial production, engineered to maintain accuracy and reliability even in the most demanding environments.

From rolling mills and steel processing lines to industrial presses and robotic welding cells, Helix components are made to last. With corrosion-resistant materials, high-thrust capabilities, and a commitment to customized solutions, we help steel producers and manufacturers optimize uptime, improve performance, and keep their operations moving forward.

Engineered Motion for Industrial-Scale Demands



Heavy manufacturing requires motion components that can withstand the rigors of shock, vibration, heat, and dust.

Helix Linear's lead screws, actuators, and ball screw systems are designed to deliver consistent motion in large-scale operations, supporting automation, positioning, and process control with unmatched ruggedness and repeatability.

Applications:

- Steel cutting and rolling systems
- Robotic welding and part positioning
- Presses, stamping, and forming machinery
- Material handling and conveyors
- CNC machine automation
- Die casting and foundry motion systems

Core Products:

- High-Load Lead Screws
- Precision Ball Screws
- Rugged Linear Actuators
- Anti-Backlash Nut Assemblies
- Custom Machined End Supports and Mounts

Motion That Thrives Where Others Fail

Steel production and fabrication environments are tough, exposing components to heat, debris, lubricants, and high-cycle forces.

Helix motion solutions are constructed using durable materials like stainless steel and heat-treated alloys, with options for protective coatings and sealed actuator assemblies that ensure continued performance under pressure.

Performance Features:

- High static and dynamic load capacity
- Temperature and contamination resistance
- Low-backlash, high-precision movement
- Lubrication options for extreme-duty use
- Long lifecycle for high-repetition processes



Industrial Solutions Backed by AS9100:2016 Certification

As an AS9100:2016 certified manufacturer, Helix Linear Technologies adheres to rigorous quality standards required for complex, high-reliability applications.

Our engineering team works closely with steel producers and OEMs to develop motion solutions tailored to their machinery and operational goals—providing full documentation, traceability, and custom configurations to meet production needs at scale.

Benefits:

- Custom engineering for load, stroke, and mounting specs
- Prototyping and short-lead production
- Durable components built for 24/7 operation
- Full traceability and testing available on request



Certifications & Standards:

- AS9100:2016 certified
- RoHS-compliant materials
- REACH-compatible grease and coatings
- Traceability on critical components



Precision Power for the Backbone of Industry

From mill lines to manufacturing robots, Helix Linear Technologies delivers durable, high-performance motion systems that help keep the steel and heavy manufacturing industries running strong.

With robust designs, engineering flexibility, and certified quality, we bring precision motion to the toughest jobs in manufacturing.



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