



# Solutions for Chemical Manufacturing

Reliable Motion for the  
World's Toughest  
Environments



# Precision Motion in Harsh Chemical Conditions

In chemical manufacturing, where corrosive environments, high temperatures, and critical process control are part of daily operations, equipment must perform flawlessly under extreme conditions.

Helix Linear Technologies provides rugged, reliable motion solutions specifically engineered to withstand these challenges while maintaining precision, efficiency, and safety.



Our components are crafted from corrosion-resistant materials and built to operate in high-duty cycles. They are trusted in applications ranging from flow control and metering to mixing, packaging, and automation.

Whether supporting large-scale production or precise laboratory systems, Helix motion products ensure consistent performance and long-term durability in the most demanding chemical processing environments.

# Engineered for Corrosive, High-Duty Environments



Chemical production lines demand motion systems that can operate in aggressive environments handling high temperatures, caustic substances, and continuous use.

Helix Linear Technologies delivers motion control components built from corrosion-resistant materials and designed to maintain precision and longevity in even the harshest settings.

## Key Applications:

- Valve control and flow regulation
- Dosing and dispensing systems
- Mixing and reaction equipment
- Tank level actuation
- Chemical packaging and bottling automation
- Lab and testing automation

## Featured Products:

- Stainless Steel Lead Screws
- PTFE- and PEEK-lined Lead Nuts
- Corrosion-Resistant Linear Actuators
- Custom Ball Screws
- Motorized Precision Actuation Systems

## **Built to Resist. Designed to Perform.**

Our motion systems are engineered using advanced materials and coatings to withstand exposure to aggressive chemicals, solvents, and cleaning agents.

With options like 300-series stainless steel, polymer nuts, and sealed actuator designs, Helix solutions are tailored to meet the chemical compatibility and maintenance needs of processing facilities.

### **Performance Features:**

- High corrosion resistance (stainless, anodized, and coated options)
- Temperature and solvent tolerance
- Self-lubricating and maintenance-free nut options
- IP-rated designs for dust and fluid ingress protection
- Anti-backlash assemblies for high-precision dosing



# Supporting Safe, Scalable Chemical Operations

Chemical plants depend on equipment that operates reliably and safely. Helix Linear Technologies supports these operations with AS9100:2016-certified products that meet strict tolerance, traceability, and cleanliness standards.

Whether you're building laboratory systems or large-scale production lines, our team collaborates to deliver tailored solutions that optimize control and reduce unplanned downtime.

## Key Capabilities:

- Engineering support for cleanroom and hazardous environments
- Custom design for load, speed, and stroke optimization
- Compatibility with industry-standard sensors and controllers
- Long service life in continuous-use applications
- Rapid prototyping and scalable production



## Certifications & Standards:

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



# Precision Motion for Safe and Efficient Chemical Manufacturing

For over a decade, Helix Linear Technologies has provided motion solutions that withstand the demands of corrosive, high-performance manufacturing environments. Our products power safe, reliable, and accurate motion in the chemical industry - protecting processes, people, and product integrity.



Helix Linear Technologies  
23200 Commerce Park, Beachwood, OH 44122

216-485-2232  
[sales@helixlinear.com](mailto:sales@helixlinear.com)  
[helixlinear.com](http://helixlinear.com)