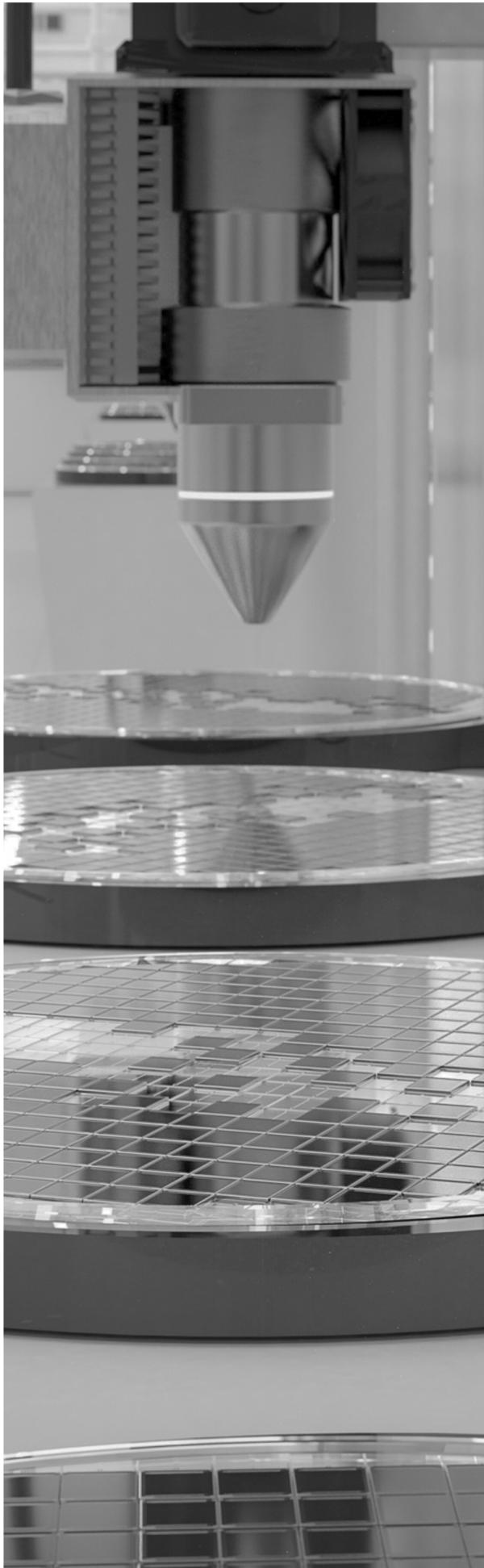




Solutions for
**Semiconductor
Manufacturing**

Precision Motion Systems
for a Demanding Industry



Precision That Powers Progress

Semiconductor manufacturing demands unmatched precision, repeatability, and cleanliness.

Helix Linear Technologies delivers engineered motion solutions built for the most exacting environments.



In the world of semiconductor manufacturing, where even the smallest variation can disrupt performance, precision is not optional. It's essential. Helix Linear Technologies provides motion control solutions specifically engineered to meet the industry's stringent demands for accuracy, consistency, and contamination control.

Our linear actuators, lead screws, and ball screws are designed for cleanroom compatibility and high-cycle reliability, empowering equipment manufacturers to maintain the exacting standards required in wafer fabrication, metrology, and assembly processes. With Helix, you gain a trusted partner in driving innovation at the microscopic level.

Precision Motion for a Cleanroom World



Helix Linear supports the semiconductor sector with motion components designed for high-performance environments.

From wafer handling to photolithography and metrology systems, our lead screws, ball screws, and actuators offer the ultra-smooth motion and minimal particle generation required in cleanrooms.

Core Offerings

- Precision Rolled and Ground Lead Screws
- Custom Ball Screws
- Electromechanical Actuators
- Motorized Linear Actuators
- Miniature Linear Stages

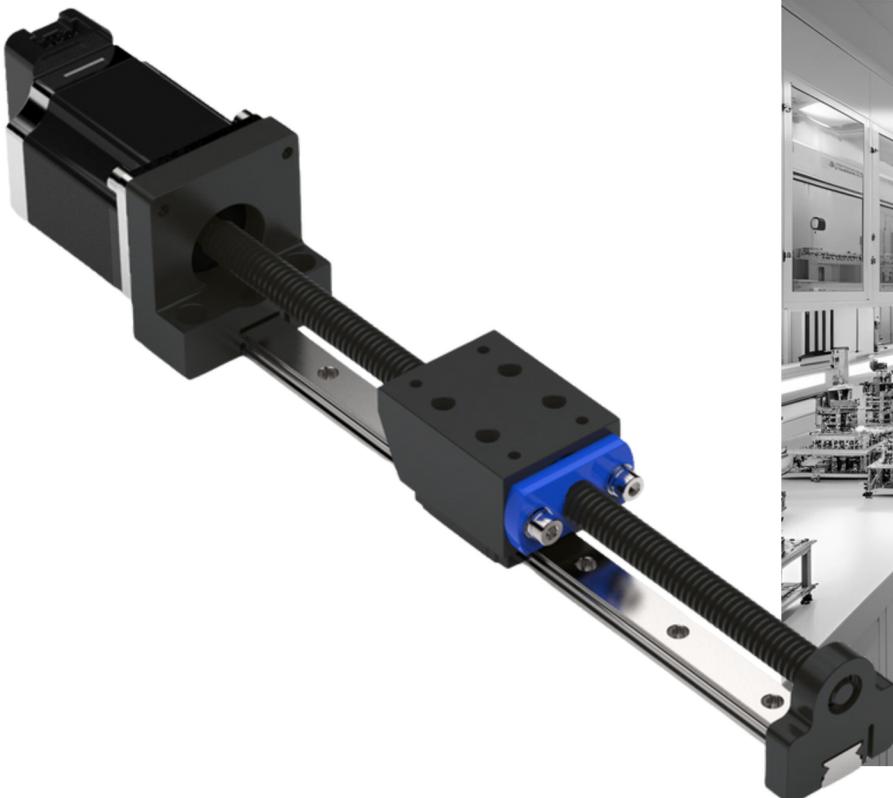
Custom Solutions Engineered for Cleanroom Classifications

Our engineering team collaborates closely with semiconductor OEMs and automation integrators to create application-specific designs.

We use low-friction coatings, stainless steel construction, and cleanroom-compatible greases to meet ISO cleanroom standards.

Features & Benefits:

- Vacuum-compatible designs
- Anti-backlash configurations
- Lubricants suitable for ISO Class 5–7
- Compact and high-precision assemblies
- Reduced particulate generation



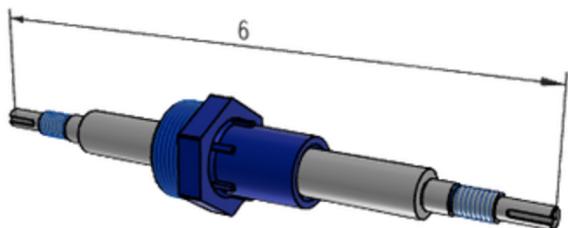
Quality, Testing, and Certifications

Helix Linear products undergo rigorous quality inspections to meet the semiconductor industry's expectations.

Our facility is AS9100:2016 certified and supports traceability, validation testing, and material analysis.

Engineering Strengths:

- In-house quality lab
- Statistical process control
- Custom testing for lifecycle validation
- Cleanroom material compatibility review



Certifications & Standards:

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



SMITHERS
QUALITY ASSESSMENTS



A Legacy of Precision. A Future of Innovation.

Since 2011, Helix Linear Technologies has been designing and manufacturing precision motion solutions for critical industries. Our commitment to innovation, quality, and engineering excellence makes us a trusted partner in the fast-evolving world of semiconductor manufacturing.



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