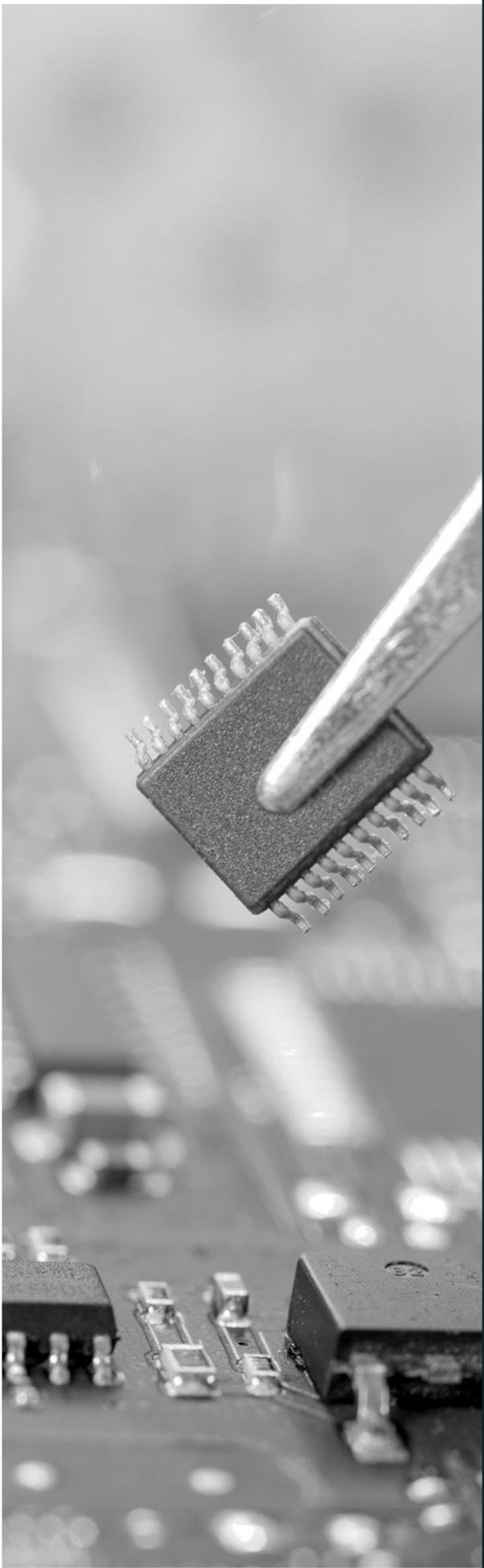




Solutions for the Electronics Industry

Precision Motion for
Miniature Innovation



Compact Precision. Powerful Results.

In the electronics industry, where every micron matters, precision motion is essential to manufacturing success. From automated test systems to microelectronic assembly, Helix Linear Technologies delivers motion control solutions that provide accurate, repeatable movement at miniature scales.



Our components support cleanroom compatibility, lightweight design, and quiet operation which is critical for sensitive electronics environments.

Whether you're building automated semiconductor test rigs, PCB inspection equipment, or consumer device assembly platforms, our lead screws, ball screws, and miniature actuators are engineered to perform. Helix Linear's compact solutions help reduce footprint, improve positional accuracy, and ensure smooth motion across a wide range of electronics applications—powering today's most advanced technologies.

Micro-Motion for High- Precision Processes



Helix Linear motion solutions are trusted across the electronics value chain, from prototyping labs to high-throughput production lines.

Our motion components are used in precision alignment, part placement, soldering automation, and sensor testing, helping manufacturers achieve tight tolerances, cleanroom compliance, and low-friction repeatability.

Key Applications:

- PCB assembly and inspection
- Automated test equipment (ATE)
- Wafer positioning and sensor calibration
- Display and component alignment
- Lab-on-chip and microfluidic systems
- High-precision pick-and-place machines

Core Products:

- Miniature Lead Screws
- Motorized Linear Actuators
- Custom Anti-Backlash Nuts
- Cleanroom-Compatible Assemblies

Engineered for Control, Accuracy, and Clean Integration

With electronics production increasingly moving toward micro-scale assembly, Helix Linear designs motion solutions with tight clearances, minimal vibration, and exceptional positional control.

Our components are compatible with ISO cleanroom standards and built using non-outgassing materials and self-lubricating polymers to maintain contamination-free operation.

Performance Features:

- Sub-millimeter positioning accuracy
- Vibration-dampening design for delicate parts
- Non-outgassing materials for cleanroom use
- Quiet operation for lab and production settings
- Custom motor integration for space-limited machines



Scalable Motion Systems for High-Tech Innovation

Whether you're launching a new consumer device or enhancing semiconductor test platforms, Helix Linear offers fast-turn prototyping and scalable production options.

Our AS9100:2016-certified facility ensures precision, traceability, and clean production processes to match the needs of electronics OEMs and automation integrators alike.

Key Capabilities:

- Short lead times for R&D builds and pilot runs
- Application-specific design support
- Traceable and testable assemblies
- USA based customer service and support
- Partnered development for smart electronics and IoT systems



Certifications & Standards:

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



Precision Motion for the Technologies of Tomorrow

From smartphones and medical electronics to advanced test systems and sensor platforms, Helix Linear Technologies powers precision motion for some of the world's most innovative electronics. Our engineered motion components are compact, cleanroom-compatible, and built for the accuracy and reliability your systems demand, layer by layer, circuit by circuit.



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