



Solutions for Agriculture

Rugged Motion Systems
for a Smarter Harvest



Engineering Precision for the Fields of Tomorrow

From precision planting to automated crop management, Helix Linear Technologies provides motion control solutions that are built to endure the harsh realities of agricultural environments while enabling the smart farming systems of tomorrow.



Our actuators, lead screws, and linear assemblies are engineered to withstand dust, moisture, vibration, and extreme temperatures, ensuring consistent performance in the field, season after season. By delivering reliable, efficient motion in applications such as seeders, sprayers, irrigation systems, and livestock automation, Helix empowers equipment manufacturers and growers to enhance productivity, reduce downtime, and embrace the future of agricultural innovation with confidence.

Dependable Motion in Any Season



Modern agriculture demands more than durability. It requires smart, efficient, and adaptable technology. Helix Linear motion products are designed to perform under pressure, withstanding dust, dirt, moisture, and vibration while delivering consistent, controlled movement. Our components help optimize everything from soil treatment systems to livestock automation and irrigation control.

Applications:

- Precision seeders and planters
- Livestock feed and ventilation systems
- Fertilizer and sprayer controls
- Irrigation valves and pivot systems
- Agricultural drones and robotics
- Smart greenhouse automation

Core Products:

- Acme Lead Screws & Nuts
- Electromechanical Actuators
- Anti-Backlash Lead Nut Assemblies
- Custom Ball Screws
- Motorized Linear Actuators
- Corrosion-resistant assemblies

Built to Withstand the Elements

Agricultural environments are tough, but so are our solutions. Helix Linear products are engineered with rugged materials, weatherproof designs, and high-load capabilities to ensure long-lasting performance, even in dirty, wet, and extreme temperature conditions.

We offer customizations for dust protection, corrosion resistance, and long-duty cycles tailored to farm machinery and outdoor systems.

Performance Features:

- Stainless steel and coated alloy options
- IP-rated sealing and booting options
- High-thrust capability for heavy machinery
- Customizable stroke lengths and mounting features
- Maintenance-friendly designs for field service



Driving the Future of Precision Agriculture

As agriculture continues to embrace automation and IoT-enabled systems, Helix provides scalable motion solutions ready to integrate with your smart farming technologies.

Whether developing autonomous machinery or enhancing greenhouse automation, our team collaborates with OEMs to create tailored components that improve performance and reduce downtime.

Benefits:

- Seamless integration into automated systems
- Compact designs for mobile and space-constrained equipment
- Compatibility with sensors, controllers, and smart technologies
- Proven performance in long-cycle and outdoor applications



Certifications & Standards:

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



Strong Roots. Smarter Motion.

Helix Linear Technologies supports the agricultural industry with motion control products that combine strength, reliability, and precision. Our team is committed to delivering field-ready solutions that help growers and equipment manufacturers increase productivity, efficiency, and innovation in every season.



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