



LINEAR LUBRICANTS



From aerospace and medical systems to factory automation, Helix Linear Technologies offers a full line of high-performance lubricants engineered to keep your motion systems running smoothly.

Each product in our Linear Lubricants series is designed for Acme and lead screw assemblies of every grade and environment:

- APG-50G: General-purpose lead screw grease for everyday industrial applications.
- NLU-1001 (PAG-1): Synthetic acme screw grease offering stable, clean performance.
- NLU-1002 (E-100): High-temperature lubricant with exceptional corrosion resistance.
- MAG-100G: Military and aerospace-grade grease for extreme conditions.
- MLG-100G: Medical-grade grease ideal for cleanroom and precision device use.
- SSG-50G: Static-dissipative grease designed for semiconductor and electronic environments.

Each formula delivers the right balance of friction reduction, corrosion protection, and thermal stability, extending screw life and ensuring precise linear motion in any environment.



Acme Screw Lubricant

NLU-1002



A high-performance synthetic lubricant tailored for acme and lead screw systems, this lubricant helps maintain smooth, reliable operation by reducing friction and resisting wear. It features:

- A broad operating temperature range from about -9°C to 201°C (16°F to 394°F)
- Strong anti-corrosion properties to protect screw surfaces under diverse environments
- Stable synthetic formulation (NLGI 2 consistency) with good thermal and shear stability

It's commonly recommended for use with PowerAc™ nuts and precision screw assemblies to extend service life and maintain performance.

Acme Screw Grease

NLU-1001



- A precision synthetic grease formulated for acme and lead screw systems, this grease ensures smooth, dependable linear motion in industrial settings. With an effective operating range from about -9°C to 204°C , it retains stability across a wide span of temperatures.
- This grease delivers excellent protection against wear and corrosion, helping extend the service life of screw assemblies in demanding environments.
- It is especially recommended for use with PowerAc™ nuts and precision lead screw systems, making it a reliable choice in motion-control applications.

Acme Screw Grease

NLU-1001



- A precision synthetic grease formulated for acme and lead screw systems, this grease ensures smooth, dependable linear motion in industrial settings. With an effective operating range from about -9°C to 204°C , it retains stability across a wide span of temperatures.
- This grease delivers excellent protection against wear and corrosion, helping extend the service life of screw assemblies in demanding environments.
- It is especially recommended for use with PowerAc™ nuts and precision lead screw systems, making it a reliable choice in motion-control applications.

All-Purpose Linear Lubricant

APG-50G



A versatile all-purpose lubricant designed for lead screw and acme screw systems, APG-50G offers smooth, reliable performance in standard industrial settings.

- **Operating range:** from $-54\text{ }^{\circ}\text{C}$ to $125\text{ }^{\circ}\text{C}$ ($-65\text{ }^{\circ}\text{F}$ to $257\text{ }^{\circ}\text{F}$)
- **Volume:** supplied in a 50 g jar
- **Key features:** general industrial use, anti-corrosion properties, suitable for applications requiring consistent lubrication under moderate thermal and mechanical loads

Military and Aerospace Grade Grease

MAG-100G



A high-performance grease formulated to meet the stringent demands of aerospace, defense, and precision motion systems, MAG-100G offers exceptional lubrication for lead screws and acme screw assemblies. It is rated for use from $-80\text{ }^{\circ}\text{C}$ to $200\text{ }^{\circ}\text{C}$ ($-112\text{ }^{\circ}\text{F}$ to $392\text{ }^{\circ}\text{F}$), making it suitable for extreme environments.

It features strong anti-corrosion properties and is designed for demanding applications where reliability under harsh conditions is critical.

Supplied in a 100-gram container, MAG-100G is tailored for precision linear motion systems in military, aerospace, and high-specification industrial uses.

Medical Grade Grease

MLG-100G



Formulated for sensitive and high-cleanliness environments (e.g. medical devices, laboratory systems), MLG-100G offers reliable lubrication for acme and lead screw assemblies with minimal contamination risk. Its operating temperature range spans from $-65\text{ }^{\circ}\text{C}$ to $250\text{ }^{\circ}\text{C}$ ($-85\text{ }^{\circ}\text{F}$ to $482\text{ }^{\circ}\text{F}$).

This grease is ideally suited for medical, semiconductor, and other specialty systems where purity and performance are critical.

Supplied in a 100-gram container, MLG-100G provides a practical quantity for maintenance or assembly in precise mechanism applications.

Static Dissipative Grease

SSG-50G



A specialized grease designed for electronics and semiconductor applications, SSG-50G provides reliable lubrication while dissipating static charges. Its key features include:

- Recommended temperature range: -65°C to 250°C
- Application focus: ideal for use in electronics or semiconductor environments where static control is critical
- Packaging & volume: available in a 50-gram container



For more information
on linear lubricants,
please visit
HelixLinear.com

