



ACME LEAD SCREWS

Lead Screw Assemblies

CUSTOM NUTS

At Helix, we mold and machine a wide array of lead screw nuts and actuator components from standard polymers such as PEEK, Torlon®, Acetal, Polypropylene, Turcite®, and custom engineered polymers that incorporate fillers like PTFE, PFPE, silicone, carbon fibers, graphite, glass fibers and molybdenum disulfide. Should cost or design constraints require a more integrated package, our engineering staff can help you simplify your design by combining several different components into a molded nut.

CUSTOM MACHINING

We offer extensive machining services on our lead screws and nuts. Journals, keyways, flats, centers, snap ring grooves and counterbores are common dimensions for us to machine on the ends of lead screws. Simply e-mail us your sketch, drawing, or 3D model and we will provide a quotation in 24 hours.

CUSTOM SCREWS

At Helix Linear Technologies, we manufacture the most precise lead screws in the world. We have perfected the thread-rolling process over four decades and today offer the widest range of thread rolling capacity globally. We have manufactured hundreds of custom screw diameters and leads for our customers who require a size that is not in our catalog. We are also the experts in thread-rolling non-standard materials and produce screws from titanium, aluminum, high-carbon steel, 300 and 400 series stainless steels, plastics and special chemistry alloys. See chart below for custom screw specifications.

CUSTOM SCREW SPECIFICATIONS

	Acme Threaded Bars	Trapezoidal Threaded Bars	Screw Threads	Specialty Forms
Diameters	1/8" - 12"	4mm - 300mm	up to 16" (400mm)	up to 16" (400mm)
Stock Lengths	3, 6, 12 foot lengths		N/A	
Special Order	Custom lengths up to 50 Ft. Full Thread, Double End and Single End Parts			
Material	Carbon Steels, Alloy Steels, Alloy Heat Treated Steels, Stainless Steel, Aluminum, Titanium, Exotic Metals		Carbon Steels, Alloy Steels, Alloy Heat Treated Steels, Stainless Steels, Aluminum, Brass, Titanium, Exotic Metals	
Thread Profiles	Helix™ 40° Acme, ASME Standard Acme, Stub Acme, Modified Stub Acme, Speedy® High-Lead, and Special Profiles made to order	ISO/DIN 30° Trapezoidal, Speedy® High-Lead, and Special Profiles made to order	UN/ISO 60° Threads and Special Threads made to order	American Worm, Module Worm, Modified Buttress, Straight Knurling, Diamond Knurling
Class of Fit	2C, 2G, 3C, 3G, 4C, 4G	7e, 8e, 8c, Modified	2A, 3A, 7e, 8e	N/A
Thread Direction	Right Hand, Left Hand			
Thread Starts	Single, Multiple			N/A