



# Aerospace and Defense Solutions



**DEFENSE**



Control Actuation Systems



Drones



Satellites



Antenna



Tanks



Commercial Aircraft Seats

# Strength in Precision

We continuously refine our capabilities to deliver top-quality products, backed by extensive experience in aerospace and military sectors. When you choose Helix Linear, expect meticulous design and testing processes that adhere to rigorous standards.

Our pre-design activities involve thorough analysis of customer requirements, utilizing predictive models and engineering calculations. Years of dedicated development ensure our adherence to stringent standards throughout the product lifecycle.

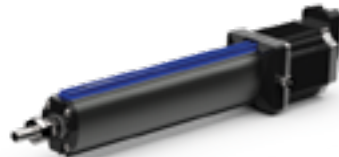
Helix Linear holds ISO-9001-2015 certification, AS9100:2016 with Design certification and complies with quality system requirements for aerospace and medical devices. Our metallurgical lab conducts comprehensive material analyses, validating heat treatment processes through routine inspections.



Ball Screws



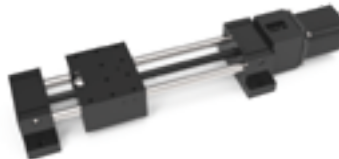
Lead Screws



Electro-Mechanical Actuators



Stepper Motor Linear Actuator



Linear Stages

Control Actuation Systems

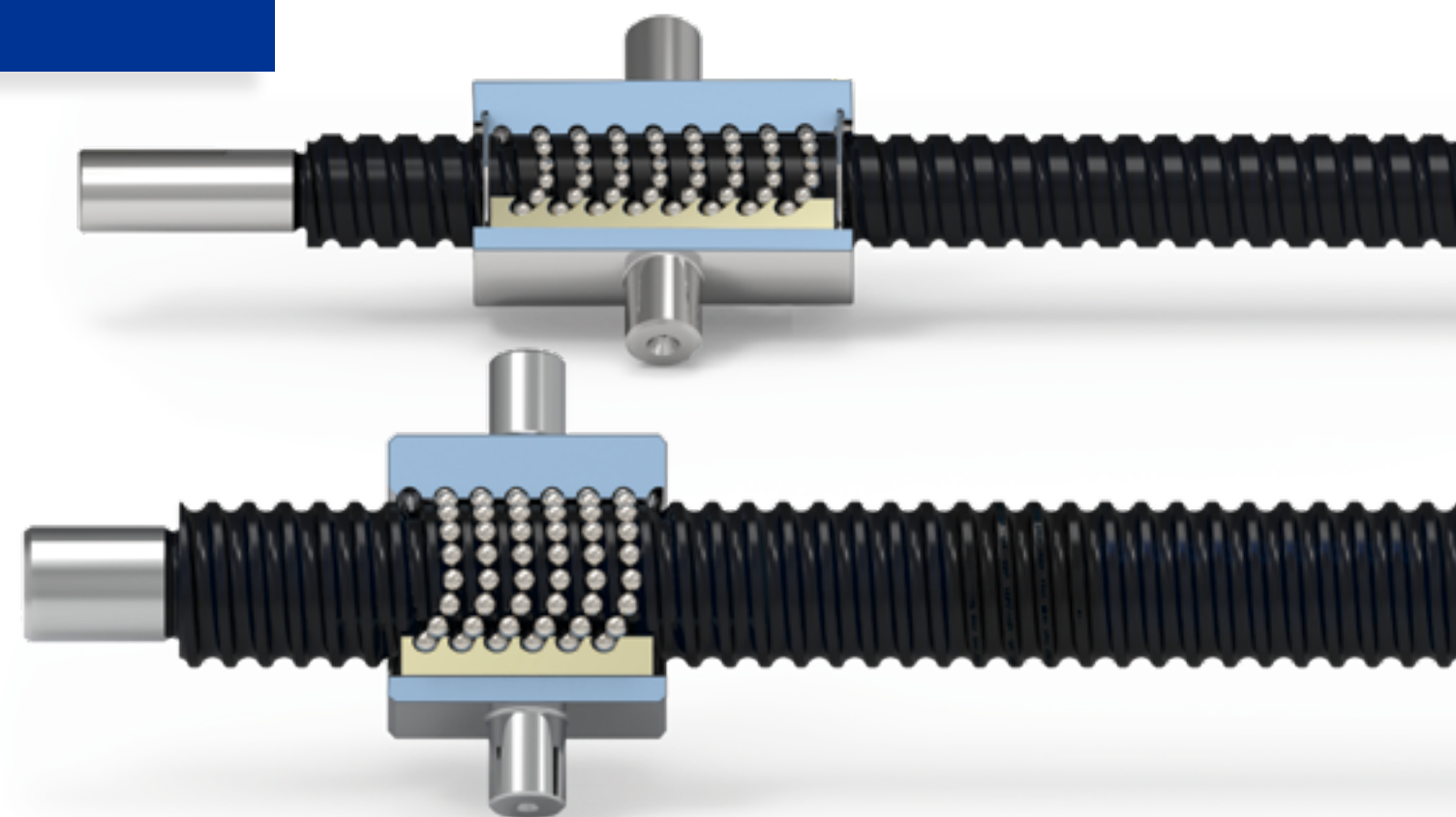
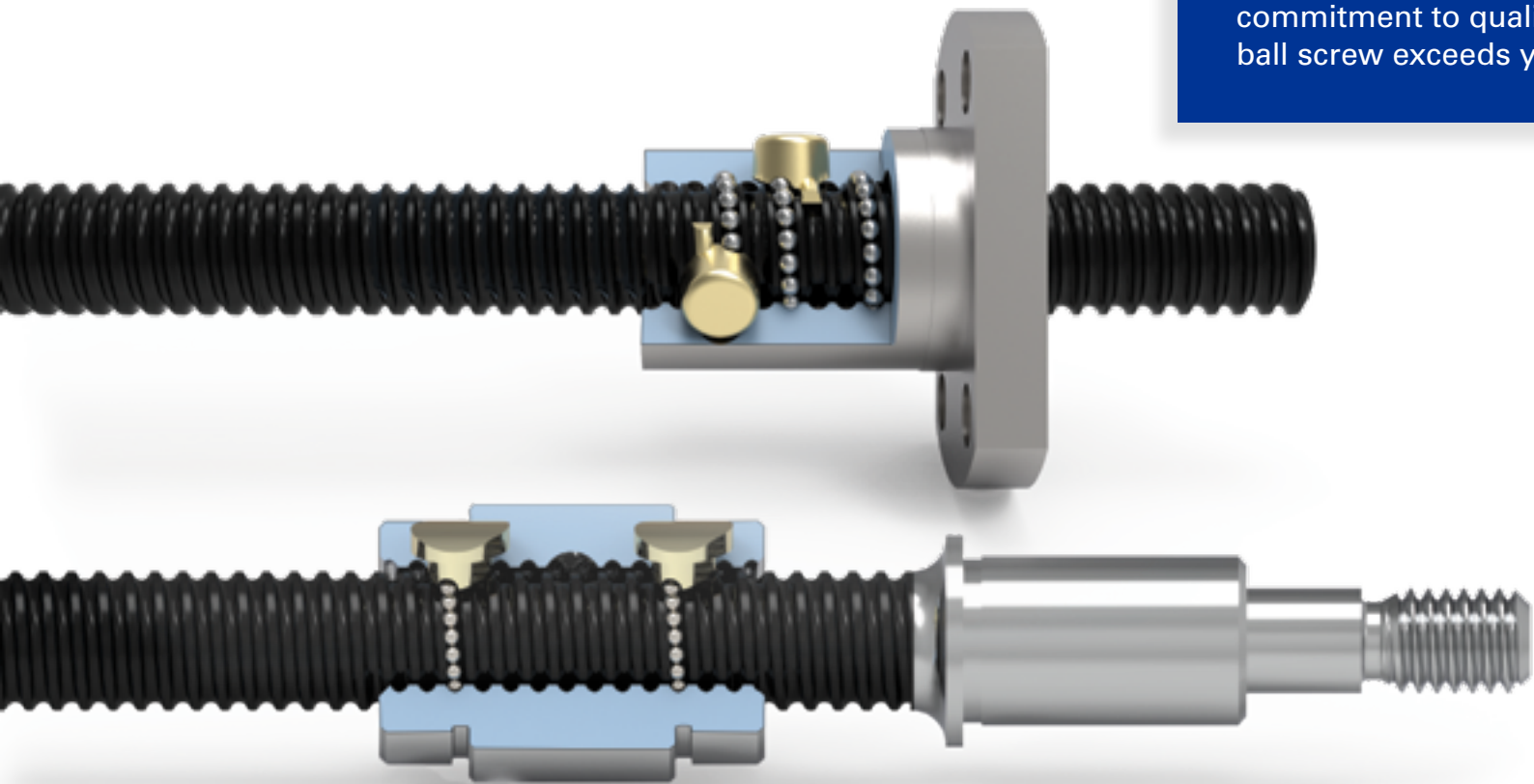


Tank Sighting Systems



## Custom Ball Screws

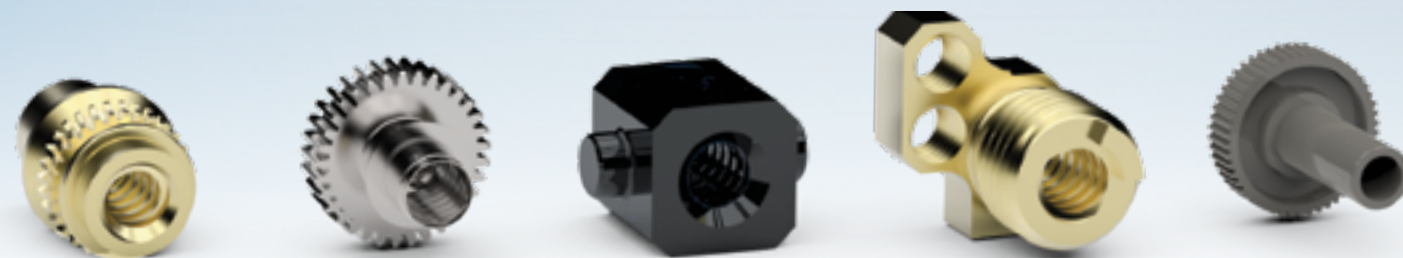
We specialize in custom ball screw manufacturing. From design to precision manufacturing, validation, and testing, we strive for excellence in every step. Our commitment to quality and reliability ensures that each ball screw exceeds your requirements.





## Custom Lead Screws

Acme nuts can be customized for aerospace and defense applications by modifying the nut body, thread pitch, diameter, and material composition. Our advanced machining capabilities and materials ensure precise modifications while maintaining durability. Additional features such as anti-backlash mechanisms and corrosion-resistant coatings enhance performance. This flexibility enables custom solutions for critical systems, optimizing functionality and efficiency in varied applications.



## Helix Linear Technologies

Helix Linear Technologies was founded in 2011 to meet the growing demand for high-precision lead screws in the electromechanical actuation industry. Our rapid growth and expanded product lines now include end-to-end linear actuator solutions, providing our clients with customized options and fully integrated solutions.



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