

Military Robotics



As technology blurs the line of how humans and machines interact, opportunities to empower new robotic driven capabilities into the hands of the warfighter and hazardous duty personnel continue to emerge.

Kollmorgen Heritage

- Kollmorgen has been on the leading edge of precision robotics technology for decades with over 100,000 units fielded in high reliability systems.
- Kollmorgen has a 100+ year history with 70+ years of designing, manufacturing and delivering motion component products into Aerospace & Defense applications.

Domain Expertise

- Robots for: Mine detection, Disaster relief, Remote weapon platforms, Hazardous duty, Bomb disposal, Situational awareness
- Articulated joints, Exo-skeletons, Traction, Weapon system and camera stabilization, Cooling pumps, Power generation
- Compact form, Thermal optimized designs, Accurate motion for high shock & vibration and extreme environments
- Durable, reliable designs for mission critical applications

Deploy Your System on Time and on Target

- Weapons stations and gun turrets
- Missile guidance and precision-guided munitions
- Radar pedestals and tracking stations
- Unmanned ground, aerial and undersea vehicles
- Ground vehicles and sea systems
- Aircraft and spacecraft systems
- Camera gimbals
- IR countermeasure platforms
- Laser weapon platforms





Solutions

- Catalog and optimized motor solutions employed, from frameless motor to fully integrated housed motors and actuators (motor, ballscrew, feedback, custom housing)
- Optimized motor designs for direct drive, strain wave geared, or zero backlash geared systems
- High torque/power to weight ratio, compact, rugged, precision accuracy
- Rapid Prototyping
- Solutions optimized for performance, weight, durability, and affordability

Risk Mitigation

- Kollmorgen has more than 70 years of experience and has been supplying mission-critical motion solutions for aerospace and defense applications since the early 1950s
- Backed by Altra, we're a large multinational corporation with manufacturing on three continents and global distribution
- With a wide range of standard options and customization capabilities, we collaborate with you to deploy rugged, battle-worthy motion solutions engineered and built to meet your singular requirements
- We have proven capabilities to support your needs from initial concept through full-scale production

Learn more at www.kollmorgen.com/aerospace-and-defense

Kollmorgen Motion for Aerospace & Defense

- Direct drive servo motors – housed, frameless and cartridge
- Brush and brushless torque motors
- Standard and customized servo motors
- Stepper motors
- Servo and stepper drives
- Linear actuators
- Gearboxes
- Controls

Let's Get Your Program Moving

Contact your Kollmorgen representative to discuss your application and how we can help you bring it to action with less cost, time and risk. Ask about how Kollmorgen can provide your team with an overview of our expertise and technology training that will foster success for your program. Because the operators at the controls deserve nothing less.

