

# ACTUATION FOR EVERY REQUIREMENT

Across the world's battlespaces, military platforms are always on the move. Collins actuation experts are designing, manufacturing, integrating and supporting the most challenging and complex actuation systems for these platforms around the globe. Pulling from both commercial and military experience, we have an unmatched depth of knowledge.

Our wide range of product solutions for military platforms include primary and secondary flight controls for 5th and 6th generation fixed-wing fighters, helicopters, missiles and utility actuation. We also provide full or partial primary actuation systems, as well as system integration and testing.

With more than five decades of military actuation experience in hydraulic, mechanical and electromechanical solutions, Collins Aerospace is uniquely positioned to support your actuation needs.

- **Weapons deployment** - our Weapons Bay Door Drive System (WBDDS) and weapon release system are designed for precision and accuracy
- **Missile actuation** - proven capability with high performance in arduous environments
- **Helicopter actuation** - our failsafe design with full system integration has over 650 million flight hours
- **Primary and secondary flight control systems** - integrated systems with over 50 years of experience in the actuation industry
- **Utility actuation** - full actuation system solutions for 5th and 6th generation fighters and rotary wing platforms
- **Full product life-cycle management** - from initial design and development to 24/7 aftermarket support including depot upgrades, repair and spares support



50+ years  
of actuation  
experience

To learn more, go  
[collinsaerospace.com/militaryactuation](https://collinsaerospace.com/militaryactuation)



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# ACTUATION FOR MILITARY PLATFORMS ON THE MOVE

Tailored solutions for demanding conditions





## TAILOR-MADE EXPERT DESIGNS

Actuation systems play a critical role in the performance of military aircraft and missiles. The success of your mission depends on every actuation system on every platform functioning as expected. Since no two missions, platforms or actuation requirements are exactly the same, our expertise and decades of experience in designing, manufacturing and supporting actuation systems can be tailored to you.

With more than 50 years of actuation experience, our team of experts are here to work with you from initial prototype designs through demo programs to full production. By using our commercial technologies, we're able to provide high-quality, proven and precise solutions to ensure mission success. With our extensive product catalogues from our military and commercial technologies, composites experience, integrated systems experience, advanced manufacturing capabilities and global presence, Collins is able to deliver the solutions you need.

**650 million  
flight hours**  
of rotary-wing  
actuators

Backed by a global network of dedicated engineers and technicians, Collins technical support offers 24/7/365 tailored maintenance, rapid resolution, enhancements and so much more. Our repair centers, extended warranty offerings, established in- country repair depot and on-site maintenance services keep your actuation systems moving and your aircraft flying. Collins can also offer 3rd party repair and localization/offset solutions to meet customers needs.

**Over 10 billion  
flight hours**  
of fly-by-wire  
actuation capabilities



### FIXED-WING AIRCRAFT

Collins has built an extensive product portfolio as a result of decades of development of hydraulic, mechanical and electro-mechanical solutions. Our fixed-wing primary flight control and taileron actuation solutions provide greater reliability, lower costs, improved performance and redundancy of moving parts allowing for weight savings. Our Weapons Bay Door Drive System (WBDDS) for 5th and 6th generation fixed-wing aircraft offers a full system solution, providing hydraulic and electric main bay and side bay systems that ensure high performance. Our utility actuation offerings cover a wide range of capabilities including movement of panels, doors or wings. With more than 10 billion flight hours of experience with fly-by-wire actuation systems, we're ready to meet your unique needs.

### ROTARY-WING AIRCRAFT

Collins is at the forefront of design, development, manufacturing and qualification of main rotor, tail rotor and tilt rotor actuation systems supporting a wide variety of platforms. We maintain a strong focus on research and development to extend the time between overhaul of our actuator technologies. With more than 650 million flight hours, our rotary-wing actuators offer reliable, tested and customizable solutions to support mission safety in highly demanding conditions.

### MISSILE

We design and manufacture electro-mechanical missile control actuation systems (CAS's) for a wide variety of missile applications. Packaging concepts range from discrete actuators to fully integrated missile CAS sections. Our manufacturing processes cover both low and high production rates – from a few development units to several thousand systems per year.

