



MISSILE ACTUATION

HIGH PERFORMING, PROVEN CAPABILITY

Reliable in extreme environments

Collins missile actuation dates back over 40 years, providing a rich and diverse heritage.

We design and manufacture electromechanical missile systems for a wide variety of missile applications. Packaging concepts range from discrete actuators to fully integrated missile Control Actuation Systems (CAS) sections.

Our manufacturing processes cover low and high production rates, from a few development units to several thousand systems per year. We have also developed CAS for a wide variety of missile applications with packaging concepts ranging from discrete actuators to fully integrated missile CAS sections.

40+
Years of
experience

Collins Aerospace can offer you missile actuation that meets a wide range of missile requirements to ensure high performance, high reliability and low cost.

KEY FEATURES AND BENEFITS

- Proven capability with high performance in arduous environments
- System design integration of our own motors, electronics and actuators within compact space envelopes
- Low-cost, high-volume production with a rate-ready supply chain
- Custom automated test equipment to validate every unit's performance

Missile actuation for every requirement

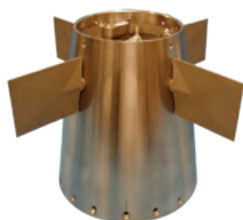
We have a strong legacy and capability in missile actuation. Collins manufacturing processes cover both low and high production rates – from a few development units to several thousand systems per year.

Our missile actuation experience covers a wide range of missile requirements to ensure:

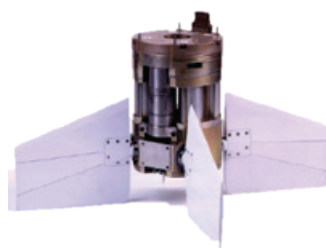
- High performance
- High reliability
- Low cost

We provide and integrate missile CAS sections that include:

- Speed reducer mechanisms
- Electric motors
- Thermal batteries
- Sensorless capability
- Full digital control
- Power and control electronics
- Integrated structure
- Fins/locks
- Backlash reducing mechanisms to accommodate wear



GMLRS CAS



High accuracy CAS



Rocket canard CAS



Long range CAS



Thrust vector actuator



Guided munition CAS

OTHER ACTUATION SYSTEMS CAPABILITIES



Primary – fixed wing

- Elevator
- Aileron
- Rudder
- Spoiler
- Flaperon



Primary – rotorcraft

- Main rotor actuator
- Tail rotor actuator



THSA/HSTA

- Trimmiable horizontal stabilizer actuator



High lift

- Power drive unit
- Wing tip brake
- Flap and slat actuators
- Transmission shafts
- Gearbox
- Electronics & Leve



Anti-ice valves

- Butterfly
- In-line poppet
- Pressure regulating
- Engine bleed



Composites

- Transmission shafts
- Fuel pipes
- Fuel and hydraulic isolators
- Tie rods and struts



Utility actuation

- Weapon bay door drive system
- Wing fold/rotate
- Refuel probe actuator
- Canopy actuator



Nacelle actuation

- Thrust reverser actuation system
- Power door opening system



Aftermarket

- 24/7/365 customer support



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