MISSILE ACTUATION SYSTEMS

HIGH PERFORMING, PROVEN CAPABILITY

Reliable in extreme environments

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

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

We design and manufacture electro-mechanical missile control actuation systems (CASs) 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.

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 provide and integrate missile CAS sections that include:

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

Other actuation systems capabilities

Primary – fixed wing
- Elevator
- Aileron
- Rudder
- Spoiler
- Flaperon

Primary – rotorcraft
- Main rotor actuator
- Tail rotor actuator

THSA/HSTA
- Trimmable horizontal stabilizer actuator

High lift
- Power drive unit
- Wing tip brake
- Flap and slat actuators
- Transmission shafts
- Gearbox
- Electronics and lever

Nacelle actuation
- Thrust reverser actuation system
- Power door opening system

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

Aftermarket
- 24/7/365 customer support