



UTILITY ACTUATION SYSTEMS

INNOVATIVE AND RELIABLE

Wide range of actuation solutions

Collins Aerospace offers a complete line of actuation products. As we continue to invest in new technology developments, our engineers deliver innovative breakthrough solutions to meet your toughest challenges.

Utility actuation systems consist of a collection of specialist actuators, each designed to perform a single function or work in combination to complete a complex task. These actuators cover a wide range of capabilities including movement of panels, doors or wings. They can also hold equipment in position, deploy materials from the vehicle and other mechanisms that are required on fixed-wing, rotary-wing or mixed-mode military platforms.

With extensive experience delivering cost-effective, light-weight, integrated utility actuation systems on a range of specialist aircraft, we can customize a solution to meet your requirements for full or partial actuation systems. We also provide full system integration and testing to ensure reliable performance.

Bringing
experience and
capability to
utility actuation

KEY FEATURES AND BENEFITS

- Enhanced safety due to increased reliability in highly demanding environments
- Customized options to meet your requirements
- Wide range of capabilities

CUSTOMIZED SOLUTIONS

Collins Aerospace provides customized actuation solutions for a variety of uses ranging from single units to fully integrated plug-in systems, including:

- Weapon/payload bay door drive system
- Refuel probe
- Air brake actuator
- Wing rotation system
- Wing fold/blade fold
- Rotary launcher
- Wing sweep actuation system
- Door/panel locks

EXTENSIVE EXPERIENCE

Our extensive experience delivering utility actuation systems includes:

- Electric actuation 0.5 KW – 100 KW
- Hydraulic actuation
- Rotary actuation
- Linear actuation

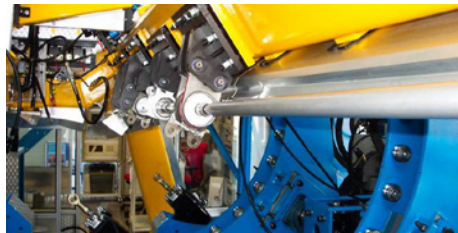
WEAPON BAY DOOR DRIVE SYSTEM

Our Weapon Bay Door Drive System ensures high-performance and offers a full system solution including:

- System design
- Performance modelling
- Integration/Iron Bird testing
- Test experience at a systems level
- Qualification
- Customer support



Wing Rotation System



WBDDS Test Rig



Weapon Bay Door Drive System

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 & 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



Missile actuation

- Control actuation system
- Thrust vector actuator



Nacelle actuation

- Thrust reverser actuation system
- Power door opening system



Aftermarket

- 24/7/365 customer support



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