HIGH-LIFT SYSTEMS

DIVERSE SOLUTIONS THAT REDUCE WEIGHT

Commercial and military applications

Collins Aerospace has more than five decades of experience built on a rich aerospace heritage. Our high-lift actuation product range is diverse, and our capability provides robust support for customer requirements.

We offer full or partial, leading- and trailing-edge systems for all types of aircraft. These systems can offer significant weight savings through the use of advanced composite transmission shafts and fly-by-wire actuation capability.

Customers can have bespoke design of their test equipment, with full system integration that draws on our experience on large commercial aircraft.

KEY FEATURES AND BENEFITS

- Stick-to-surface capability
- Proven system integration and test capability, including skew detection
- Electric solutions
- Hydraulic solutions delivering 3,000 and 5,000 psi
- Rotary or linear solutions
- Weight reduction
Innovation that delivers results

Collins Aerospace continues to invest heavily in research and development in the high-lift actuation segment.

With more than 50 years’ experience and 650 million flight hours, we’re one of the world’s leading high-lift actuation providers. We can bring together the brightest minds to serve our customers’ toughest challenges.

Our range of actuators ensure:

• High performance and reliability
• Enhanced safety
• Maximum maintainability
• Lower operating life-cycle costs
• Reduced cost of maintenance

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

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

Missile actuation
• Control actuation system
• Thrust vector actuator

Aftermarket
• 24/7/365 customer support

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High-lift systems test rig