



## 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



Wing tip brake



Power drive unit



Ballscrew actuator



Rotary geared actuator



Integrated system control  
& motor drive electronics



Motor control electronics



High-lift system test rig

## 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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