



ACTUATION SYSTEMS

HIGH PERFORMANCE, PROVEN EXPERTISE

Latest developments in actuation systems for fixed wing, rotorcraft and military platforms

Collins Aerospace is at the forefront of the design, manufacture, test and certification of actuation systems. With more than 50 years of experience, we are able to create tailor-made solutions for full or partial actuation systems to meet the unique requirements of our customers. Collins also provides full system integration and testing to ensure optimum product performance.

Our broad product portfolio, built on an extensive heritage of creating hydraulic, mechanical

and electro-mechanical solutions, offers actuation capabilities for:

- Primary flight controls (fixed wing and rotorcraft)
- Trimmable horizontal stabilizer actuator
- High lift systems
- Nacelle actuation
- Anti-Ice valves
- Composites
- Utility actuation
- Missile actuation

At Collins, we understand that each customer has needs and priorities that differ depending on the operation and mission. We offer a broad menu of services, support and pricing options. And we are proud to provide services that are truly flexible, 24/7, 365 days a year.

KEY FEATURES & BENEFITS

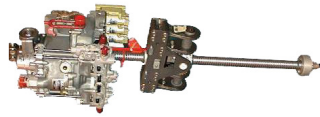
- Serving airlines, military, OEMs and MROs
- More than 50 years of industry experience
- Latest in manufacturing technologies
- Cost-effective and bespoke solutions
- Dedicated 24/7/365 support by a global network of MRO service and support facilities

Collins Aerospace – actuation systems

Collins actuation systems have gained more than 10 billion flight hours of experience using fly-by-wire actuators. And our continued investment in new technologies help us to deliver innovative, break-through solutions to meet even the toughest requirements.



Primary flight controls elevator actuator



Horizontal stabilizer trim actuator



High lift system power control unit actuator



Nacelle actuation thrust reverser



Composites transmission shaft



Utility – hydraulic air brake actuator



Missile actuation thrust vector actuator

ACTUATION SYSTEMS CAPABILITIES

| | | | | | | | | | |
|--|--|--|--|---|--|--|--|---|---|
|  <p>Primary – fixed wing</p> <ul style="list-style-type: none"> • Elevator • Aileron • Rudder • Spoiler • Flaperon |  <p>Primary – rotocraft</p> <ul style="list-style-type: none"> • Main rotor actuator • Tail rotor actuator |  <p>THSA/HSTA</p> <ul style="list-style-type: none"> • Trimmable horizontal stabilizer actuator |  <p>High lift</p> <ul style="list-style-type: none"> • Power drive unit • Wing tip brake • Flap and slat actuators • Transmission shafts • Gearbox • Electronics and lever |  <p>Nacelle actuation</p> <ul style="list-style-type: none"> • Thrust reverser actuation system • Power door opening system |  <p>Anti-ice valves</p> <ul style="list-style-type: none"> • Butterfly • In-line poppet • Pressure regulating • Engine bleed |  <p>Composites</p> <ul style="list-style-type: none"> • Transmission shafts • Fuel pipes • Fuel and hydraulic isolators • Tie rods and struts |  <p>Utility actuation</p> <ul style="list-style-type: none"> • Weapon bay door drive system • Wing fold/rotate • Refuel probe actuator • Canopy actuator |  <p>Missile actuation</p> <ul style="list-style-type: none"> • Control actuation • Thrust vector actuator |  <p>Aftermarket</p> <ul style="list-style-type: none"> • 24/7/365 customer support |
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