



TRIMMABLE HORIZONTAL STABILIZER ACTUATOR

COST-EFFECTIVE AND TAILOR MADE

Reliable in the most challenging environments

Collins Aerospace is at the forefront of the industry by supplying trimmable horizontal stabilizer actuator (THSA) solutions, which are ball screw driven and operated electronically or hydraulically.

We have a vast array of experience providing THSAs across a large portfolio of civil and military aircraft. In addition to cost-effective and tailor-made solutions, we also provide full integration of THSA systems.

Our products are certifiable to the latest airworthiness standards. They deliver high performance and ensure reliability for safety in even the most challenging conditions.

Optimize your aircraft system architecture with our hydraulic fly-by-wire or electro-mechanical actuator solutions.

Over
600
million
flight hours
of THSA
experience



Committed to keeping THSA advanced

Through an extensive heritage and strategic investment in research and development projects, we ensure that our THSA technology stays advanced. Such projects include state-of-the-art electro-mechanical THSAs in a complete range of hydraulic THSAs – from 3,000 psi to 5,000 psi mechanically fly-by-wire driven.



3,000 psi hydraulic fly-by-wire



Smart 3,000 psi hydraulic



5,000 psi hydraulic fly-by-wire



Electro-mechanical THSA – MC21 program
Customer: Irkut Corporation

OTHER ACTUATION SYSTEMS CAPABILITIES

Primary – fixed wing

- Elevator
- Aileron
- Rudder
- Spoiler
- Flaperon

Primary – rotorcraft

- Main rotor actuator
- Tail rotor 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
- Engine bleed
- Pressure regulating

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