

# Hydraulic Actuation Product Portfolio



Accelerating Growth  
in Aerospace & Defense

# Over 60 Years of Excellence in

CIRCOR Aerospace & Defense is a fast-growing industry leader known for its ability to provide highly engineered technology, service, subsystem and component solutions to a range of aerospace markets.

Today, our products are flying on most commercial and military aircraft, including single and twin-aisle air transport, business and regional jets, military transports and fighters, and commercial and military rotorcraft. For all our aircraft landing gear and utility actuation customers, we:

- Custom design and manufacture of complex actuation sub systems and systems
- Design and manufacture solutions for landing gear doors, landing gear actuation systems
- Design and manufacture internal locking actuators
- Utilize specifically designed, application-focused components

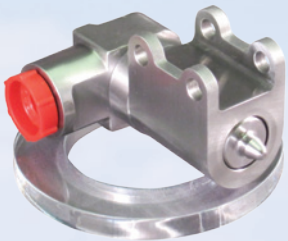
Landing Gear Door Actuation



Main Entry Door Dampener



Uplock Actuation



Landing Gear Retract-Extend Actuation



# Actuation Solutions

## The CIRCOR Aerospace & Defense Difference

Customers continue to choose CIRCOR Aerospace & Defense landing gear and actuation products over other options for these compelling reasons:

- › Highly responsive to industry changes and adaptable to customer requirements
- › Transparency and partnership throughout the program
- › Single point of contact and chain of command - for all relationships
- › Adherence to Lean Manufacturing principles in everything we do
- › All activities linked to providing customer value through improved levels of technical, quality and delivery service, and responsiveness

When it comes to achieving excellence in actuation for your aircraft landing gear, utility systems, and other actuation systems, CIRCOR Aerospace & Defense design to specification solutions are ready.

## Sub-System Applications

- › Nose Wheel Steering
- › Secondary Flight Controls
- › Missile Fin
- › Structures
- › Utility Actuation
- › Rotary & Linear Actuation

Side Stay Actuator



Aircraft Stick-Pusher



Nose Wheel Steering Actuation, Aircraft



Nose Wheel Steering Actuation, UAV





CIRCOR Aerospace & Defense is a global manufacturer of highly engineered subsystem and component solutions that continuously develops precision technologies to improve customer efficiencies and performance, and maintain operational excellence.

## Accelerating Growth in Aerospace & Defense

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