

Commercial Aviation Actuation Systems



ENGINEERED TO MOVE

The aviation industry depends on safe, reliable motion control solutions for a variety of aircraft functions, from flight control to landing gear and more. Diakont is proud to supply quality, lightweight electromechanical actuators (EMAs) that are ideal for a number of aircraft applications, such as thrust reverse control and gear and access door actuation.





Commercial Aviation Actuation

Thrust Reverse Control Actuators

Featuring remarkably lightweight EMAs, this robust system has a minimum of two identical electromechanical channels and a control unit that provides synchronized movement for aircraft thrust reverser actuators.

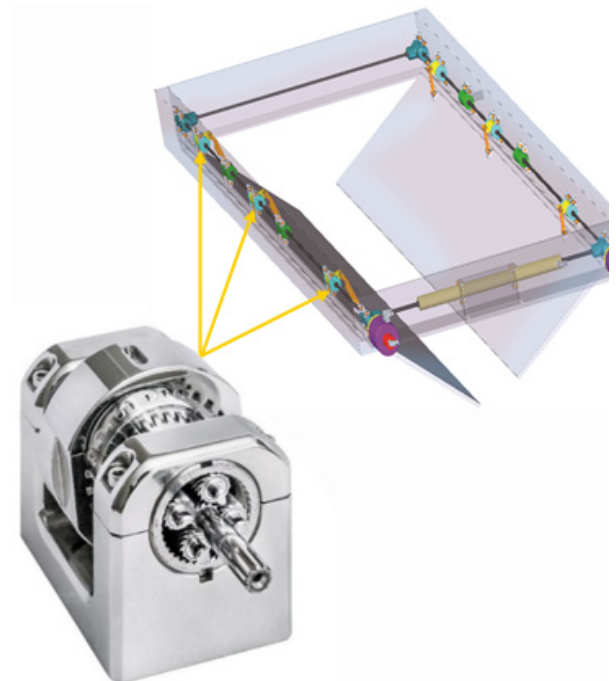
- Weight – 9.8 kg
- Force – 14,800 N
- Stroke – 600 mm
- Speed – 295 mm/sec



Gear and Access Door Actuation

Diakont's landing gear and access doors actuation system is comprised of a dual-redundant, closed looped kinematic chain that utilizes roller screw gears. This configuration ensures the system is able to withstand single failures if the situation were ever to arise. Each roller screw gear is installed on a shaft connected to a dual-redundant motor. Multiple roller screws are used to evenly distribute motor torque throughout the physical system. Utilizing this fully electric design, aircraft dynamics are optimized due to decreased system weight, increased safety features, and minimal maintenance.

- Torque per reducer – more than 1000 Nm
- Slim size – Ø 70 mm
- Bearings are replaced with roller screw (increasing lifetime and reliability)



Dual-Redundant Closed Loop Landing Gear Door Actuation System

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