

Motion Solutions for Aerospace and Defense Applications



With over 150 years of combined expertise in delivering innovative motion solutions, Portescap and Kollmorgen stand ready to provide a motor system that not only meets, but exceeds, the complex requirements of Aerospace and Defense applications.

Portescap

A REGAL REXNORD BRAND

Portescap is a global supplier of miniature motion solutions for the Aerospace and Defense industry, delivering 40+ years of miniature motor expertise & fully customized designs that fit a variety of demanding commercial and military applications. With our array of technology options and team of engineering experts, rest assured that your motion solution will be reliable, long lived, and able to endure harsh conditions - all in a small, lightweight package.

KOLLMORGEN

A REGAL REXNORD BRAND

With a 100+ year heritage, Kollmorgen is a pioneer, reliable partner, and proven innovator for motion systems that win the day — every day. Our motion design expertise makes extraordinary aerospace and defense systems possible in land and sea, in the air, and in space. We push beyond any limits to ensure that aerospace and defense contractors are more ambitious with their motion design, more capable with their engineering, and more confident in their delivery. Failure is not an option. Engineer the exceptional with Kollmorgen.

Portescap's Expertise

Housed cylindrical motors featuring:

- In sizes up to 50mm in diameter
- Continuous power ratings up to 300w
- Flat BLDC motors ranging from 20mm to 90mm
- Capability to make custom rotor/stator sets as small as 8mm OD
- Product Lines
 - Ultra EC™
 - Slotted BLDC
 - Brush DC
 - Stepper
 - Accessories

Kollmorgen's Expertise

Frameless torquer motors featuring:

- Large through bores in sizes 45mm OD+
- Continuous power ratings 100W up to kW+
- Speeds under 1,000 RPM
- Product Lines
 - TBM
 - TBM2G
 - BMS
 - KBM
 - RBE
 - Goldline

Portescap and Kollmorgen are leaders in crafting motion systems that are fully tailored for the Aerospace and Defense industry. Experience the synergy between our brands as we take your most complex application requirements and deliver the optimal precision motion solution.





Application	Segment	Sub-Application	Portescap	Kollmorgen
Missiles	Missiles	Fin CAS	✓	✓
		Seeker Head	✓	✓
		Thrust Vectoring Control	✓	
	Guided Bomb	Wing Deployment	✓	✓
		Seeker Head	✓	✓
	Ordnance	Fin CAS	✓	
UAVs	Class I			
	Class II	Propulsion	✓	
		EO/IR	✓	
		Control Surface	✓	
	Class III	EO/IR	✓	✓
		Control Surface	✓	✓
	Class IV	EO/IR	✓	✓
		Control Surface		✓
		Actuators	✓	✓
		Valves	✓	
	Class V	EO/IR	✓	✓
		Control Surface		✓
EO/IR	Land, Sea, Air, Space	Gimbal (Azimuth/Elevation)		✓
		Sensor (Zoom/Focus)	✓	
Radar	Portable, Stationary	Azimuth/Elevation		✓
Remote Weapon Systems				✓
Flight Control	Cockpit Controls	Side Stick, Rudder/Yaw Pedal, Yoke	✓	
	Flight Management	Autopilot Actuation	✓	
Propulsion	Engine	Thrust Control Valve, Afterburner Actuator	✓	
	Fluid/Fuel	Fuel Metering, Control, Shutoff Valves & Pumps	✓	
Environmental Control Systems		HVAC, De-icing, Cabin Pressurization (Valves, Pumps, Actuators)	✓	
Window Shades			✓	
Seat Actuation			✓	
Satellite	Smallsats		✓	✓
Ground	Ground Systems	Azimuth/Elevation, Reaction Wheels, Antennas, Solar Panels		✓
Space Vehicles	Space Vehicles	Robotic Joints, Cryogenic Cooling Pumps, Reaction Wheels, Torque Tools, Traction/End Effectors/ Manipulators		✓