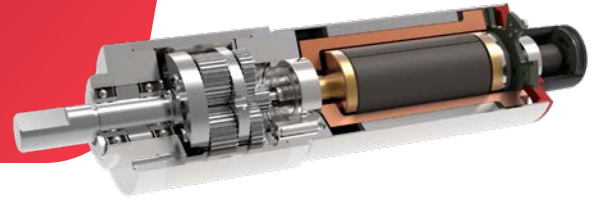


The Aero Platform

TESTED TO DO-160G
ENVIRONMENTAL STANDARDS



The Aero platform is a range of commercial-off-the-shelf (COTS) motors and accessories engineered to deliver the environmental endurance, performance consistency, and long-life reliability required for modern aerospace platforms. Designed for seamless integration and precise control, these products perform dependably in harsh conditions across a broad range of operating profiles.

The portfolio includes the Aero series of slotless brushless DC motors, supported by aerospace-ready gearheads and magnetic encoders to enable complete motion assemblies. As COTS configurations, these solutions also reduce development time and simplify integration into new and existing systems.

AERO SERIES — PRECISION PERFORMANCE FOR SWAP-SENSITIVE SYSTEMS

- High power density and ultra smooth motion for high accuracy actuation
- High efficiency to support thermal management and extended service life
- Fully tested against DO-160G requirements for demanding flight conditions
- Compact, lightweight configurations for tight envelope requirements
- Ideal for Environmental Control Systems (ECS) valves, fluid control valves, and flight control systems
- Frame sizes: 22–30 mm

COMPLEMENTARY GEARHEADS & ENCODERS

- 22 mm and 32 mm gearheads tested to DO-160G requirements for long-life operation under demanding duty cycles
- Magnetic encoders tested to DO-160G requirements designed for accuracy, stability, and environmental resilience



The Aero Platform

TESTED TO DO-160G ENVIRONMENTAL STANDARDS

KEY BENEFITS

- Withstands >40 G vibration and >100 G shock
- Wide operating range -55°C to +100°C
- Resistant to humidity, corrosion, and environmental contaminants
- Manufactured under AS9100 certified quality systems
- Simplified export classification for global deployment

CUSTOMIZATION OPTIONS

- Mechanical integration (housings, front/rear shaft options, accessory assembly)
- Custom shaft geometries or geared outputs
- Winding modifications tailored to voltage-speed performance
- Specialized cables, shielding, and connectors



VIEW THE FULL PRODUCT RANGE



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The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>. To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale>

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