

PRODUCT OFFERING BY AEROSPACE / DEFENSE APPLICATIONS

POWER AND DATA DIVISION

Moog's broad portfolio of products and solutions are built on core competencies and innovative technology. Our capabilities are leveraged to solve our customer's most difficult challenges. Explore our products and application solutions at www.moog.com.

ADVANCED AIR MOBILITY

- Actuators
- Ethernet Switches
- Motors
- Position Transducer Assemblies
- Resolvers

ACTIVE COUNTERMEASURES

- Gimbal Assemblies
- Motors
- Resolvers
- Slip Rings
- Twist Capsules

DIRECTED ENERGY SYSTEMS

- Actuators
- Gimbal Assemblies
- Motors
- Resolvers
- Slip Rings
- Twist Capsules

EO / IR SENSORS

- Actuators
- Fiber Optic Transceivers
- Gimbal Assemblies
- Motors
- Multiplexers & Media Converters
- Resolvers
- Slip Rings / Twist Capsules

FIXED AND ROTARY WING AIRCRAFT

- Actuators
- Ethernet Switches
- Gimbal Assemblies
- Motors
- Resolvers
- Slip Rings

GROUND VEHICLES

- Actuators
- Ethernet Switches
- Fiber Optic Transceivers
- Gimbal Assemblies
- Motors
- Multiplexers & Media Converters
- Resolvers
- Rotary Joint Assemblies
- Twist Capsules

MISSILES

- Actuators
- Motors
- Resolvers
- Slip Rings

MISSILE LAUNCHERS

- Ethernet Switches
- Fiber Optic Modems
- Fiber Optic Transceivers
- Integrated Motion Assemblies
- Motors
- Multiplexers & Media Converters
- Resolvers
- Slip Rings / Twist Capsules

MOBILE COMMAND CENTERS

- Ethernet Switches
- Fiber Optic Modems
- Fiber Optic Transceivers
- Multiplexers & Media Converters

RADAR SYSTEMS

- Actuators
- Ethernet Switches
- Fiber Optic Modems
- Fiber Optic Transceivers
- Gimbal Assemblies
- Motors
- Multiplexers & Media Converters
- Resolvers
- Rotary Joint Assemblies

SATCOM

- Actuators
- Ethernet Switches
- Fiber Optic Modems
- Gimbal Assemblies
- Multiplexers & Media Converters

SATELLITES

- Gimbal Assemblies
- Motors
- Resolvers
- Slip Rings

UNMANNED / REMOTELY OPERATED VEHICLES

- Actuators
- Ethernet Switches
- Fiber Optic Modems
- Motors
- Multiplexers & Media Converters
- Permanent Magnet Alternators
- Resolvers

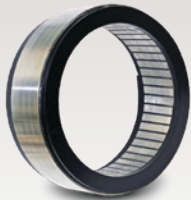
DEFENSE PRODUCTS

Moog's Power and Data Division is an innovative provider of power and data transfer solutions, motion control, and electronic products that are designed and manufactured to meet the demanding technical and environmental requirements of the defense and space markets. Moog products can be found on armored vehicles, electro-optic / infrared systems, helicopters, space satellites and other mission critical applications.



ROTARY JOINTS & SLIP RINGS

These high performance products are used in systems that require unrestrained, continuous rotation while transmitting power, data and media from a stationary device to a rotating structure. High bandwidth options include Ethernet, high definition video and other industry standard formats. Moog also has solutions including fiber optic rotary joints, fluid rotary unions and position sensors.



DIRECT DRIVE DC TORQUE MOTORS & ALTERNATORS

Frameless torque motors are used in defense applications that require high power density and quick accelerations. The motors are optimized to minimize input power for maximum efficiency. Alternators in the same mechanical configuration can be used for mobile power generation.



RESOLVERS

Moog offers rugged resolvers that provide accurate positioning and velocity feedback, as well as commutation of brushless motors. These models withstand the shock and vibration levels often encountered in aerospace and military applications. They are used for vertical integration with motors and slip ring assemblies.

ACTUATORS

Multi-purpose electromechanical actuators are available in both rotary and linear configurations and are standard building blocks in a variety of systems. Some of our actuators integrate servo electronics. These actuators are used on air, ground and unmanned applications.



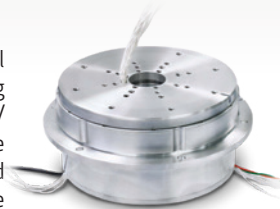
HIGH SPEED DATA COMMUNICATIONS

Moog provides innovative components and communication sub-systems for both copper and optical fiber based systems used in harsh environments. Moog meets the demanding high speed and secure networking equipment requirements of today's modern defense systems. The product range includes electro-optical transceivers, link extenders, Ethernet media converters and switches, data aggregators and multiplexer / de-multiplexer solutions.



GIMBAL ASSEMBLIES

Our higher level solutions range from simple combinations of individual products to sophisticated electromechanical assemblies including the motor, drive electronics, slip ring, fiber optic rotary joint, fluid / pneumatic swivel and RF rotary joint. Moog's single-axis gimbal stage supports most payloads, and all the rotary components are integrated into one assembly. This design reduces set-up time and simplifies the installation process.



MOOG | Shaping the way our world moves™

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Moog Space and Defense



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