

# **MOOG TOTAL SUPPORT**

DEFENSE SUSTAINMENT SERVICES



Moog Inc. is a worldwide designer, manufacturer, and integrator of precision motion control products and systems. Over the past 70 years, we have developed a reputation for delivering innovative solutions for the most challenging motion control applications. As a result, we have become a key supplier to the world's leading multi-domain vehicle manufacturers and are positioned on countless military platforms, providing reliable systems and support for our customers. Moog Total Support also provides sustainment and aftermarket services across thousands of commercial applications.







## **MOOG TOTAL SUPPORT – DEFENSE**

Our comprehensive global sustainment program broadly includes OEM product support, modernization and upgrades, service and support, training and engineered solutions supporting industry's wide range of defense products across multi-domain operations. As an OEM supplier, Moog is the logical choice for follow-on product support.

#### **ADVANTAGES**

- Dedicated teams with the backing of a large Original Equipment Manufacturer (OEM)
- Direct OEM support with comprehensive engineering resources
- Technical, logistics, integration, maintenance, and training support
- Depot support / regional offices for faster global response
- Public-Private Partnerships (P3s) Industry leader in direct partnering
- Cost-share willing to invest and create Intellectual Property (IP)
- Field Service Reps (FSRs) are Moog employees with a deep level of knowledge and dedication

## **GLOBAL SUSTAINMENT SUPPORT**

Contact: totalsupport@moog.com





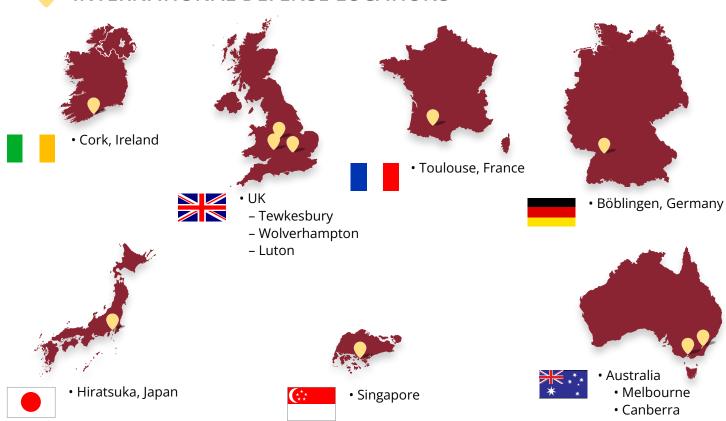
- East Aurora, NY 🛧 (Headquarters)
- Blacksburg, VA
- Huntsville, AL
- Orlando, FL
- Orrville, OH
- Salt Lake City, UT
- Santa Barbara, CA
- Torrance, CA



### **DEPOT SUPPORT**

- Corpus Christi, TX
- Hill AFB, UT
- Jacksonville, FL
- Letterkenny,PA
- MCAS Cherry Point, NC
- North Island NAS, CA
- Tinker AFB, OK
- Tobyhanna, PA





# **MOOG TOTAL SUPPORT OFFERINGS**

# OEM PRODUCT SUPPORT

- Spares
- Repair and overhaul
- Software support revision changes, etc.
- Parts and kits
- Initial provisioning
- Logistics

# MODERNIZATION AND UPGRADES

- Upgrades
- Software
- Mechanical
- Hydraulics
- Electronics
- Obsolescence management
- Additive manufacturing
- 3-D printing

#### **SERVICE AND SUPPORT**

- Public-Private Partnerships (P3s)
- On-site depot start-up and support
- Test equipment services
- Engineering Services
- Moog Field Service Reps (FSRs)
- Joint venture experience
- Licensing
- Data technical information, drawings
- Documentation
- Repair manuals
- Operation manuals
- Test equipment manuals

#### **TRAINING**

- Maintenance
- Preventive Maintenance
   Checks and Services (PMCS)
- Tools and test equipment
- Operators / operations
- Simulation
- Computer-based training
- Embedded system training
- Subsystem integration
- Theory of operation
- Test equipment
- Training support
- Virtual or on-site

#### **ENGINEERED SOLUTIONS**

- Reverse engineering
- Mechanical
- Hydraulics
- Electronics
- Repair and overhaul of non-Moog hardware
- Tech insertion



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# **MOOG DEFENSE**

**EOUIPPING THOSE WHO DEFEND FREEDOM ACROSS MULTI-DOMAIN OPERATIONS** 



Power & Control Electronics Thrust Vector Control Systems Chemical & Cold Gas Engine Systems Main Engine Fluid Controls Secondary Payload Adaptors & Delivery Systems
Vehicle SoftRide® Isolation

### **SPACECRAFT & PAYLOAD DELIVERY SYSTEMS**



Payload-Ready Satellite Buses **Propulsion Systems Integrated Flight Avionics** Structures & Isolation Solutions Mechanisms & Control Electronics



Weapon Stores Management Systems (SMS) Missile Launchers & Simulators Flight Control Systems Vibration Control Slip Rings **Cockpit Avionics Solutions** 

#### **FIXED WING**

Weapon SMS Flight Control Systems Motion Control for ISR Search Radar Stabilized Motion Control for Turrets **Engine Control Systems** Media Converters/Ethernet Switches Missile Launchers & Simulators **Cockpit Avionics Solutions** 

## MISSILES & **KILL VEHICLES**

Thrust Vector Control

Fin Control Wing Deploy Integrated Propulsion Systems & Fluid Control Seeker Motors Avionics & Sensor Integration Structures & Isolation Solutions **Control Electronics** 



Flight Control Systems Weapon SMS Missile Launchers & Simulators Actuators Vehicle Management Systems



Reconfigurable Integrated-weapons Platform Turret Weapon Systems & Integration Stabilized Motion Control Fire Control Ammunition Handling

Large Caliber Weapon Control Systems Multi-Mission Payload Systems Short Range Air Defense C-UAS Solutions



EH to EM Conversions & Upgrades High Voltage Elevation & Azimuth Control Directed Energy Weapon SMS Slip Rings

# **RADAR**

Radar Multi-Axis Positioning Systems Cooling Equipment Units Digital Airfield Solutions Runway FOD Detection



### **SUBMARINES**

Valve Actuation **Hull Mechanical Actuation** Servovalves Periscope Actuation Optronics Rotary Joints



### **TORPEDOES**

Steering Assembly Servovalves **Electromechanical Controls** 

Predator

**Gray Eagle** 



**EM Actuation** Weapon SMS Stabilized Motion Control for Turrets **Gun Control Units Active Stabilization Ammunition Handling** 



**Propulsion Systems** Steering & Dive Control Systems Subsea Utility Motors



## SUSTAINMENT SERVICES

OEM Product Support Modernization & Upgrades Service & Support Training **Engineered Solutions** 

## **SPACE**

LEO/MEO/GEO & Beyond DOD Commercial Civil

#### **ROTARY** WING

Black Hawk V-22 Seahawk S-92 | S-76 AW129 | AW159 FLRAA MD 530F Bell 407 AH-64E Apache AH-530 T129 CH-53

#### **FIXED** WING

F-15 | F-16 | F-18 | F-35 AT-802 OA-1K Skyraider II T-50 Golden Eagle AC-130J Ghostrider KF-21 Boramae Eurofighter PrecISR MC-145B Hurjet Scorpion Hawk AJT IDF Bronco II Caravan

# **MISSILES &**

Tactical & Strike Systems Hypersonic Missile Systems Long Range Ballistic Missiles Air & Missile Defense

# **RADAR**

G/ATOR AN/TPY2 Sentinel AN/TPQ-53 MEADS

#### **COMBAT &** TACTICAL VEHICLES LAUNCHERS

M-SHORAD CWS-Heavy LAV-AT/25 Ariete C2 Centauro II Stryker CV90 Jaguar PZH 2000 Piranha V CASEAR 155 Bradley MLIDŚ K9 Thunder SPH K9 Vajra Howitzer Abrams K21 IFV K2 Black Panther RCH 155

MML HIMARS

#### **SUBMARINES TORPEDOES**

Seawolf Class Virginia Class Ohio Class Columbia Class Collins Class Scorpene Class **Dreadnought Class** Barracuda Class

Mk 54

Ford-class Aircraft Carrier Littoral Combat Ship Frigate Types 45/23/122-125 Nimitz Class Carriers Chevallier CT40 c-UAS **Evolved Cape Class Patrol Boat** 

**SURFACE** 

**VESSELS** 

**Hobart Class Destroyer** 

## **AUV / UUV**

XLUUV UUV-FoS Echo Ranger Echo Voyager CLASSIFIED RMMV

# **EQUIPPING THOSE WHO DEFEND FREEDOM**



MOOG | Shaping the way our world moves™

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