



MOOG TOTAL SUPPORT

DEFENSE SUSTAINMENT SERVICES

MOOG

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 aircraft manufacturers and are positioned on virtually every commercial and military platform, providing reliable systems and support for our customers.



MOOG TOTAL SUPPORT - DEFENSE

Our comprehensive global sustainment program broadly includes OEM product support, OEM 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
- Engineered Solutions for non-Moog products
 - Where the reliability of the existing system is not meeting expectations
 - Where the existing supply challenges require an alternate solution
- 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



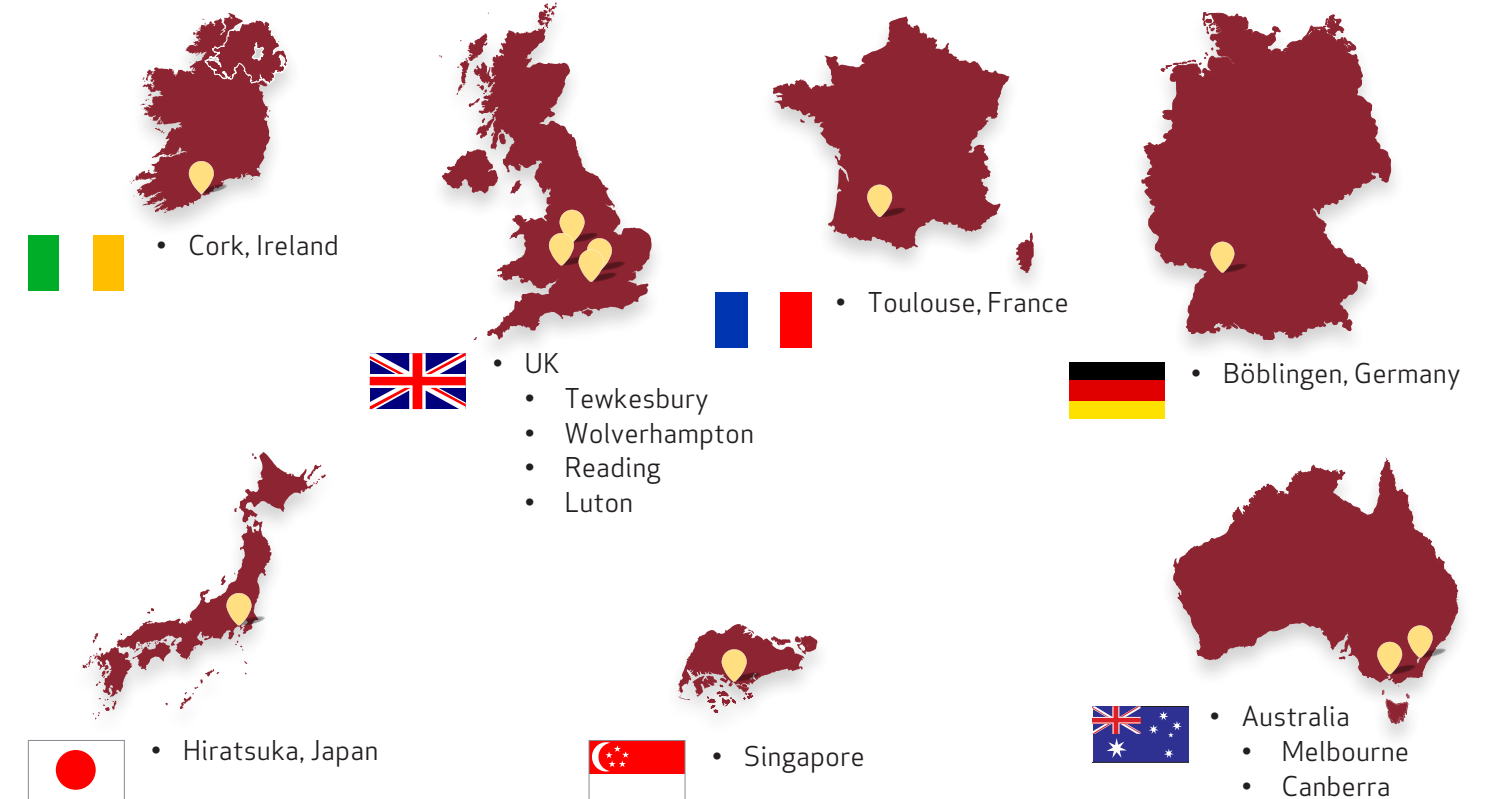
MOOG U.S. DEFENSE LOCATIONS

- 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
- MCAS Cherry Point, NC
- North Island NAS, CA
- Tinker AFB, OK
- Tobyhanna, PA

INTERNATIONAL DEFENSE LOCATIONS



MOOG TOTAL SUPPORT OFFERINGS

OEM PRODUCT SUPPORT

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

OEM 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



U.S. Air Force photo / Airman 1st Class Caleb Worpel

MOOG DEFENSE

EQUIPPING THOSE WHO DEFEND FREEDOM
ACROSS MULTI-DOMAIN OPERATIONS

SPACE

AIR

LAND

SEA



LAUNCH VEHICLES

- 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

- Propulsion Systems
- Integrated Flight Avionics
- Structures & Isolation Solutions
- On-board Mechanisms & Control Electronics
- Spacecraft Bus Solutions



ROTARY WING

- Weapon Stores Management Systems (SMS)
- Missile Launchers & Simulators
- Flight Control Systems
- Vibration Control
- Slip Rings



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
- Automatic Runway FOD Detection



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



UAS

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



RADAR

- Radar Multi-Axis Positioning Systems
- Cooling Equipment Units
- Slip Rings



COMBAT & TACTICAL VEHICLES

- Reconfigurable Integrated-weapons Platform
- Turret Weapon Systems & Integration
- Stabilized Motion Control
- Fire Control
- Ammunition Handling
- Large Caliber Weapon Control Systems
- Modular Countermeasure Directors
- Multi-Mission Payload Systems
- Short Range Air Defense
- C-UAS Solutions



LAUNCHERS

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



SUSTAINMENT SERVICES

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

SUBMARINES

- Valve Actuation
- Hull Mechanical Actuation
- Servo Valves
- Torpedo Steering
- Periscope Actuation
- Optronics Rotary Joints



SURFACE VESSELS

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



AUV / UUV

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

CAPABILITIES

MULTI-DOMAIN SUSTAINMENT SERVICES

EXPERIENCE

SPACE	ROTARY WING	FIXED WING	MISSILES & KILL VEHICLES	UAS	RADAR	COMBAT & TACTICAL VEHICLES	LAUNCHERS	SUBMARINES	SURFACE VESSELS	AUV / UUV	
LEO/MEO/GEO & Beyond DOD Commercial Civil	Black Hawk V-22 Seahawk S-92 S-76 AW129 AW159 V-280 MD 530F Bell 407	F-35 AC-130J Ghost Rider Caravan Eurofighter AT-802 MC-145B Scorpion Bronco II PreISR Digital Airfield Solutions	Tactical & Strike Systems Hypersonic Missile Systems Long Range Ballistic Missiles Air & Missile Defense	Predator Gray Eagle MQ-25	G/ATOR AN/TPY2 Sentinel AN/TPQ-53 MEADS Aegis TRML-4D	M-SHORAD LAV-AT/25 Stryker CV90 PZH 2000 Bradley MLIDS Abrams M113A54 RCH 155	CWS-Heavy Ariete C2 Centauro II Jaguar Piranha V CASEAR 155 K9 Thunder SPH K9 Vajra Howitzer KF21 IFV	MML HIMARs MLRS	Seawolf Class Virginia Class Ohio Class Columbia Class Collins Class Scorpene Class Dreadnought Class Barracuda Class Mark 48 Torpedo Mk54 Torpedo	Ford-class Aircraft Carrier Littoral Combat Ship Frigate Types 45/23/122-125 K30 Nimitz Class Carriers Chevallier CT40 c-UAS Evolved Cape Class Patrol Boat Hobart Class Destroyer	XLUUV UUV-FoS Echo Ranger Echo Voyager CLASSIFIED RMMV

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