



Credit: U.S. Army



*Credit: U.S. Air Force/
Senior Airman Trevor Gordnier*



*Credit: U.S. Army National Guard/
Staff Sgt. Gabriel Rivera*



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

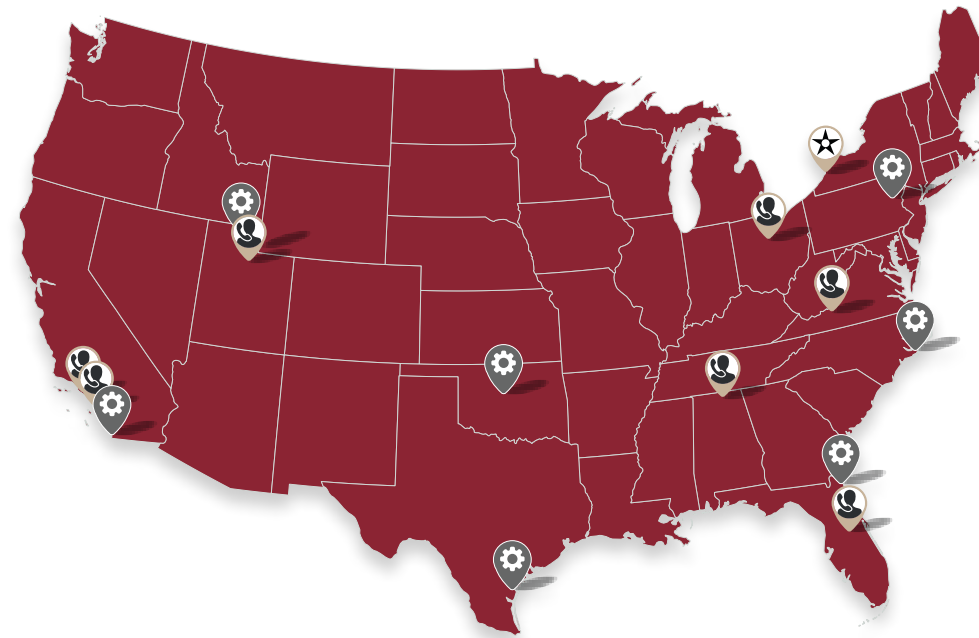
Our comprehensive global sustainment program broadly includes OEM product support, modernization and upgrades, service and support, training and engineered solutions supporting industry's wide range of defense products across multi-domain operations. As an OEM supplier, Moog is the logical choice for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



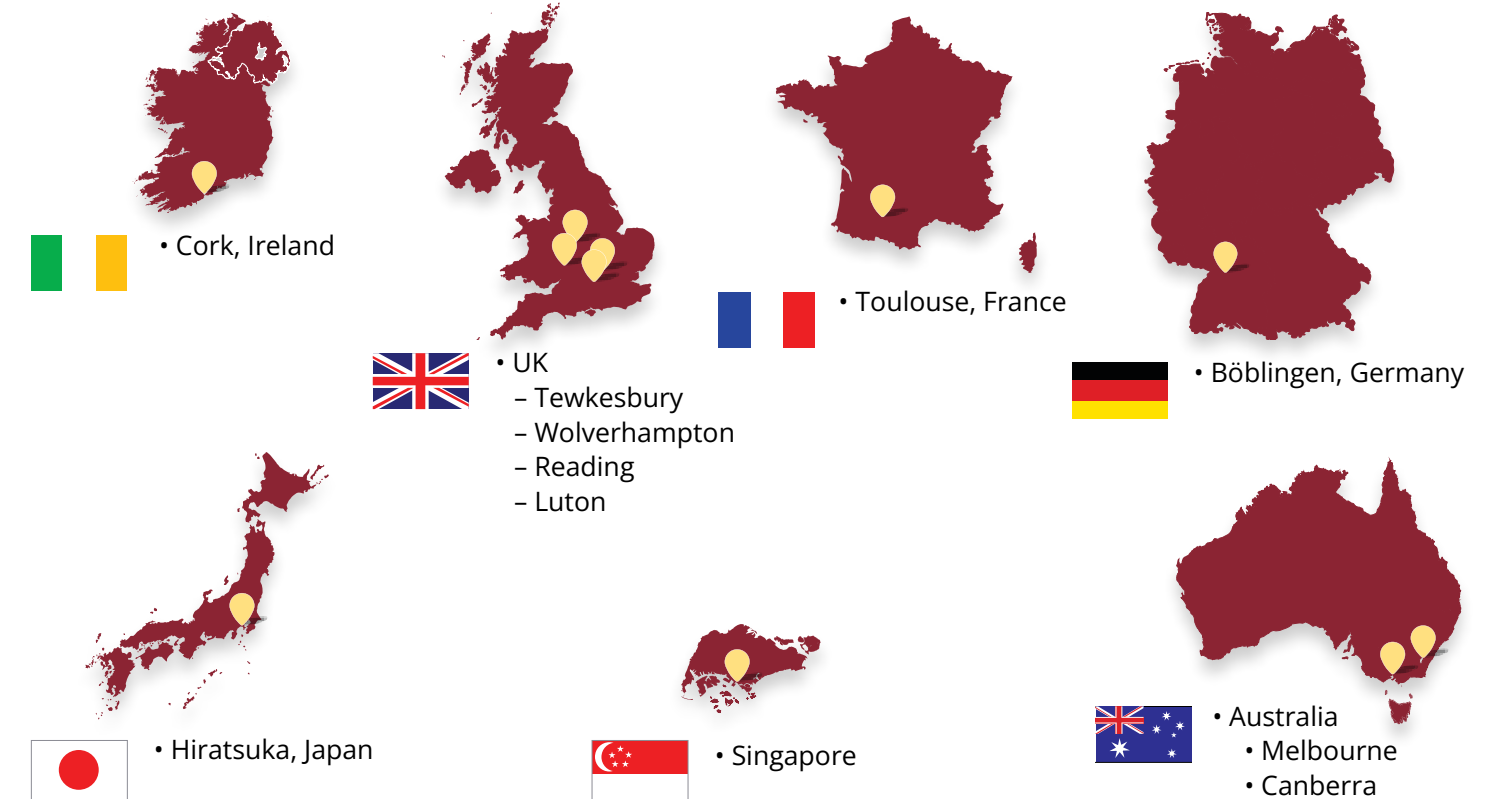
MOOG U.S. DEFENSE LOCATIONS

- 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
- Letterkenny, PA
- 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
- 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



MOOG DEFENSE

EQUIPPING THOSE WHO DEFEND FREEDOM
ACROSS MULTI-DOMAIN OPERATIONS



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
- 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



UAS

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



RADAR

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



COMBAT & TACTICAL VEHICLES

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



LAUNCHERS

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



SUBMARINES

- Valve Actuation
- Hull Mechanical Actuation
- Servovalves
- 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



SUSTAINMENT SERVICES

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



CAPABILITIES

MULTI-DOMAIN SUSTAINMENT SERVICES

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

FIXED WING

- F-15, F-16, F-18, F-35
- AC-130J Ghost Rider
- Caravan
- Eurofighter
- AT-802/OA-1K
- MC-145B
- Scorpion
- Bronco II
- PredSR
- KF-21 Boramae
- T-50 Golden Eagle

MISSILES & KILL VEHICLES

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

UAS

- Predator
- Gray Eagle
- MQ-25

RADAR

- G/ATOR
- AN/TPY2
- Sentinel
- AN/TPQ-53
- MEADS
- Aegis
- TRML-4D

COMBAT & TACTICAL VEHICLES

- M-SHORAD
- LAV-AT/25
- Stryker
- CV90
- PZH 2000
- Bradley
- MLIDS
- Abrams
- M113AS4
- RCH 155
- CWS-Heavy
- Ariete C2
- Centauro II
- Jaguar
- Piranha V
- CASEAR 155
- K9 Thunder SPH
- K9 Vajra Howitzer
- K21 IFV
- K2 Black Panther

LAUNCHERS

- MML
- HIMARS
- MLRS

SUBMARINES

- Seawolf Class
- Virginia Class
- Ohio Class
- Columbia Class
- Collins Class
- Scorpene Class
- Dreadnought Class
- Barracuda Class
- Mark 48 Torpedo
- Mk54 Torpedo

SURFACE VESSELS

- 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

AUV / UUV

- XLUUV
- UUV-FoS
- Echo Ranger
- Echo Voyager
- CLASSIFIED
- RMMV

EXPERIENCE

EQUIPPING THOSE WHO DEFEND FREEDOM

MOOG

totalsupport@moog.com
moog.com



Moog Space and Defense



Moog Inc.



@Moog_Inc



@Moog.Inc