MISSILE SYSTEMS
EQUIPPING THOSE WHO DEFEND FREEDOM
MISSILE CONTROL EXPERIENCE

- Fin and Canard Control Actuation Systems (CAS)
- Missile Thrust Vector Control
- Wing Deployment Actuation Systems

INTERCEPTOR AND KILL VEHICLE EXPERIENCE

Components for Divert and Attitude Control Systems (DACS):
- Tanks
- Thruster Valves
- Regulators
- Service Valves

Application of Technology from Years of EHSV and Spacecraft Fluid Control

1980s  | 1990s  | 2000s  | 2010s
---|---|---|---
- HOE  | LEAP  | THAAD  | LUS
- HEDI  | AHFT  | EKV  | LDACS
- IOM  | ACAT  | MKV  | OPDACS
- KHFT  | EM  | LcKV  | HPI
- FLAGE  | EPS  | GKM  | MOKV
- SABR/SOT  | DTB  | THAAD (Liquid)  | LDAC
- KEW 10.2  | DARRT  | EKV (Liquid)  | CPDACS
- IGHP  | AKV  | FMTI (Gel)  | NLOS-CL
- HOE  | AGAT  | E2/LETB Flap  | TACT. TOM. (EP)
- HEDI  | E2/LETB (EM)  | TACT. TOM. (EP)  | JCM and P44
- IOM  | TOWFF (EM)  | TACT. TOM. (EP)  | JCM and P44
- KHFT  | EFOG-M (EM)  | TACT. TOM. (EP)  | JCM and P44
- FLAGE  | Have Lite (EM)  | TACT. TOM. (EP)  | JCM and P44
- SABR/SOT  | EM H ellofire  | TACT. TOM. (EP)  | JCM and P44
- KEW 10.2  | SGM  | EM H ellofire  | TACT. TOM. (EP)
- IGHP  | Gremlins  | EM H ellofire  | TACT. TOM. (EP)
- HOE  | XM  | EM H ellofire  | TACT. TOM. (EP)
- HEDI  | FCAS  | EM H ellofire  | TACT. TOM. (EP)
- IOM  | TCAS  | EM H ellofire  | TACT. TOM. (EP)
- KHFT  | E2/LETB Flap  | EM H ellofire  | TACT. TOM. (EP)
- FLAGE  | TACT. TOM. (EP)  | EM H ellofire  | TACT. TOM. (EP)
- SABR/SOT  | TACT. TOM. (EP)  | EM H ellofire  | TACT. TOM. (EP)
- KEW 10.2  | TACT. TOM. (EP)  | EM H ellofire  | TACT. TOM. (EP)
- IGHP  | TACT. TOM. (EP)  | EM H ellofire  | TACT. TOM. (EP)
MISSILE STEERING CONTROLS

- CANARD CONTROL ACTUATION SYSTEM
- LONG RANGE FIN AND WING ACTUATION SYSTEM
- TACTICAL CONTROL ACTUATION SYSTEM
- SUPERSONIC CONTROL ACTUATION SYSTEM
- HYPERSONIC CONTROL ACTUATION SYSTEM

TACTICAL - C-RAM - LONG RANGE CRUISE - SUPERSONIC - HYPERSONIC

Watch the video “Moog Precision Missile Steering Capabilities” at: www.moog.com/missiles
FLUID STEERING CONTROLS FOR KILL VEHICLES

PROPULSION MODULES
Divert and Attitude Propulsion Control Modules
Compact, Lightweight, Propulsion Feed Systems for Rapid Integration

VALVE MODULES
Divert Propulsion Valve Modules
Designed for Warm Gas and Bipropellant Systems

THRUSTER VALVES
Divert and Attitude Valves
Thrust Range of 0.5 lbF Warm Gas to 1500 lbF Bipropellant

REGULATORS
Miniature Gas Regulators for Precise Propellant Feed

SERVICE VALVES
Service Valves Designed to Load and Unload Propellant During Testing and Field Operations
Several Interfaces Available

PROPELLANT TANKS
Propellant Tanks Designed for High Center of Gravity Applications and Low Cost
THE MOOG ADVANTAGE

HERITAGE
• First Missile Servocontrol Provided by Moog in 1951
• Electrohydraulic (EH), Electropneumatic (EP), Electromechanical (EM), and Electrohydrostatic (EHSA) Architectures
• Priority Business for Moog Inc.

OPERATIONS CENTER OF EXCELLENCE
• Salt Lake City Facility Dedicated to Missile Production
• Preferred Supplier Status at Major Customers
• Lean Assembly and Test Processes

HUMAN CAPITAL
• Strong Corporate Culture Based on Trust that Fosters Innovation and Embraces Change
• Very Low Turnover Rates
• Recruit, Develop, and Retain Top Talent

CAPABILITIES
• High Volume Production
• Low Volume, Rapid Prototyping
• Build-to-Print Services
• Focused, Dedicated Supply Chain