

MVO USA – ENGINEERING AND MACHINING SERVICES DEFENSE & AEROSPACE

COMPANY VISION

To provide our customers the best value in the industry. To continuously strive for perfection and improve the quality of our products and services to better satisfy the wants, needs, and expectations of our customers; and to deliver to them, on time and every time, defect-free products and services.

COMPANY MISSION

The Core Purpose of MVO USA is to provide challenging careers for our people by providing innovative and unique technical solutions to our customer thereby maintaining our current growth.

MVO USA brings its diverse skills to deliver design and process engineering solutions to diverse industries globally including:

- Precision Machined Components
- Mechanical Assemblies & Subassemblies
- Special Purpose Machines and Gages
- Special Tooling & Fixtures

EXPERIENCE COUNTS

MVO USA's high precision, quality work serves clients in demanding technology industries including, but not limited to aerospace, defense, motorsports and automotive.

MVO USA is registered with SAM, and the Joint Certification Program, and DDTC.

MVO USA's core Aerospace and Defense customers include Raytheon and The Triumph Group.

NAICS:

- 332313 Plate Work Manufacturing
- 332322 Sheet Metal Work Manufacturing
- 332710 Machine Shops
- 332721 Precision Turned Products
- 332999 All Other Misc. Fabricated Metal Product Manufacturing.

QUALITY SYSTEMS

- **ISO 9001:2008 Certified**
- **ISO/TS 16949:2009 Certified**
- **AS9100 Rev D Certified**

CORE ENGINEERING CAPABILITIES

- Design, Development and Consultation
- Finite Element Analysis
- Computer and 3D CAD/CAM Support (Catia, Solidworks, Mastercam and AutoCad)
- Hydraulic Testing, and Other Validation
- Statistical Process Control
- Military Drawing Interpretation
- Government, Military, Aerospace (Hughes, Boeing and Raytheon) Specification Experience

CORE MACHINING CAPABILITIES

- Three Axis CNC Lathe with Enhanced Live Milling Capabilities
- Four Axis CNC Milling Centers
- Four Axis High Speed Milling (24" X 24" X 18")
- Hard Milling and Turning
- Variety of Manual Machining Equipment for Tooling and Fixture Support
- Cylindrical Grinding
- Wet & Dry Surface Grinder
- Assembly, Hardware and Fastener Installation
- Adhesive Bonding
- General Welding MIG & TIG

HEAT TREAT CAPABILITIES

- Induction Hardening Capability
- 4'X4'X4' Tempering/Aging/Curing Oven

INSPECTION SERVICES

- CMM (Contour Scanning & Reverse Engineering)
- Surface Finish
- Optical Measurements (OGP Smartscope)
- Case Depth Analysis (HRc, HRa, HV)
- Analytical Gear Checker (Gleason Sigma-175)
 - AGMA, DIN, ISO, etc.

STATE OF THE ART FACILITIES

MVO USA's 61,800 square foot facility utilizes a full line of state of the art tooling, offering our customers the leading edge in high speed machining.

Equipped with an impressive range of world-class computer numerical controlled (CNC) machining centers, and backed by a team of dedicated and highly trained engineers, MVO USA is a center of excellence in precision tool making and machining of precision components.

MVO USA's has identified a number of critical suppliers which enable MVO USA to supply completed parts and assemblies for our customers. All suppliers are ISO-9001, AS-9100 or NADCAP certified. Below is a list of some of the processes that can be performed. Other specialty processes are available per request.

- Materials:
 - Aluminium
 - Stainless Steel
 - Plastics
 - Rubber
 - Adhesives
 - Castings
- Hardware:
 - Mil-Spec, Spec Control
- Non-Destructive Testing
 - Magnetic Particle Inspection
 - Dye Penetrant Inspection (Including pickling/etching)
- Heat treating:
 - Aging / Precipitation Hardening
 - Quench and Temper
 - Carburizing (Gas & Vacuum)
- Painting / Coating:
 - Mil-Spec Prime and Paint
 - Silk Screen
 - Dry Film Lube
 - Anodizing (Types I, II and III)
 - Chemical Conversion
 - Zinc Phosphate
- Plating:
 - Nickel, Chrome, Cadmium, Tin
 - Gold / Silver
- Shot peening
- Mil-Spec Welding
- Testing
 - Salt Spray
 - Metallurgical

MVO USA

MVO USA has moved beyond its traditional markets to new frontiers in engineering design and high precision machining, servicing aerospace and defense industries. Through a combination of engineering services and precision tool making capabilities, MVO USA turns your ideas into reality.

Engineering & Mfg Sales:

Brian Hannum

Sr. Product Engineer

Email: brianh@mvousa.com

