

CNC Machine Shop



PRECISION ENGINEERING FOR MISSION-CRITICAL UAV PROPULSION

DELIVERING AMERICAN-MADE RELIABILITY AND RAPID TURNAROUND FOR UNMANNED SYSTEMS

At Northwest UAV, precision isn't a goal; it's the standard. Our American-based machine shop specializes in the propulsion systems and modular components that keep your aircraft in the sky. Utilizing advanced DMG Mori multi-axis technology and MasterCam integration, we eliminate manufacturing uncertainty. We focus on durability and accuracy to ensure every mission succeeds. Stop settling for "good enough" and partner with experts who understand the high stakes of unmanned flight.

01. Advanced 5-Axis Machining for Complex UAV Components
02. Specialized Propulsion Manufacturing for Mission-Critical Systems
03. Automated Workflows Ensure Rapid, Reliable Component Delivery

MILITARY PROVEN PROPULSION SOLUTIONS!





HIGH-END TECHNOLOGY MEETS AMERICAN CRAFTSMANSHIP

Quality starts with the right tools. Our floor features a suite of DMG Mori machinery designed for complex geometries and tight tolerances. We utilize the NHX 4000 horizontal 4-axis system and the VMX 1100 vertical 3-axis center to handle everything from prototypes to full-scale production. By integrating 5-axis trunnion tables and multi-position pallet pools, we maximize efficiency while maintaining absolute accuracy. **We don't just cut metal; we engineer reliability into every part.**

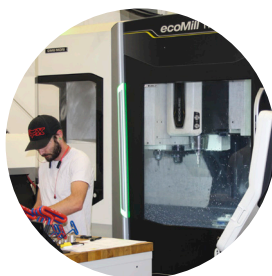
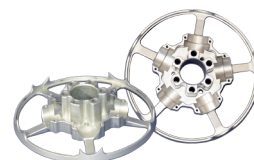
01. INTEGRATED SOFTWARE & MANUAL PRECISION

➤ **Technology is only as effective as the people operating it.** Our artisans use MasterCam and SolidWorks to bridge the gap between digital design and physical reality. This digital workflow ensures that every component we produce matches your specifications exactly. For specialized adjustments or unique one-off parts, we supplement our CNC capabilities with manual mills and lathes. If accuracy and time are your primary constraints, Northwest UAV provides the pragmatic solutions you require.

- **Multi-Axis Precision:** Advanced DMG Mori 4 and 5-axis CNC machining centers enable the production of complex, high-tolerance components for specialized propulsion systems.
- **Propulsion Specialization:** Dedicated focus on unmanned aerial vehicle (UAV) engine components and modular support solutions rather than general-purpose machining.
- **Operational Efficiency:** Automated tool detection and multi-position pallet pools minimize downtime, ensuring rapid turnaround times without sacrificing component integrity.

02. MACHINE CENTERS & FEATURES

- **2024 Haas UMC-750 Vertical 5-Axis**
 - 40 Taper
 - 30+1 Tool Capacity
 - 10+1 Pallet Pool
- **2016 DMG Mori VMX 1100 Vertical 3-Axis**
 - Twin KME 5-Axis Trunnion Table
 - 30 Tool Magazine, Renshaw
 - Probe, Broke Tool Detection
- **2015 DMG Mori NHX 4000 RPP Horizontal 4-Axis, 4-Position KME 5-Axis Tomstone**
 - 180 Tool Magazine, 5-Position
 - Pallet Pool, Renshaw Probe, Broke
 - Tool Detection
- **2013 DMG Mori NHX 4000 Horizontal 4-Axis**
 - 60 Tool Magazine, Tool Detection
- **2012 DMG Mori 1035 Vertical 3-Axis**
- **2009 DMG Mori 5100 Vertical 3-Axis**
 - KME 5-Axis Trunnion Table,
 - 30 Tool Magazine
- **OTHER EQUIPMENT –**
 - MasterCam® CNC Software
 - SolidWorks
 - Manual Mill
 - Manual Lathe



11160 SW Durham Lane | McMinnville, OR 97128
Office: 503.434.6845 | Fax: 503.217.6080 | www.nwuav.com



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