

NWUAV PROPULSION

CATALOG

MILITARY PROVEN PROPULSION SOLUTIONS!

DOMINATE THE AIRSPACE. SECURE THE SUPPLY CHAIN.

Aerospace compliant Propulsion.
Built for the Realities of Modern
Global Missions.

A Scalable Fleet of Mission-Ready Powerplants.

Heavy-Fuel Dominance and
Next-Generation Hydrogen
Fuel Cells.

Powering the Future of Unmanned Aviation

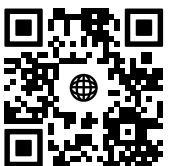
Your Mission.
Our Engine.
Absolute
Certainty.

Total Vertical Integration Under One Roof

From Initial Design to
Same-Day Flight Testing
Without Outsourcing.

COMPLIANCE STANDARDS

EAR99 export approved.
AS9100 Aerospace Standards.



ABOUT US

Northwest UAV began in a small Oregon garage. Today, we lead the American unmanned propulsion industry from an expansive aerospace campus. Founder Chris Harris built this company on a simple premise: unmanned systems require power that does not fail. For over twenty years, our team has engineered propulsion solutions that thrive in the harshest environments. We do not just build engines. We define the standard for what a reliable power system should be.

Our track record is defined by results. We have delivered over 18,000 engines and logged more than one million flight hours. These figures represent two decades of proven reliability across the globe. We focus on heavy-fuel propulsion and emerging hydrogen fuel cell technology because modern missions demand extreme efficiency. Every component we produce adheres to rigorous AS9100 aerospace standards. Quality is our baseline, not a goal.

Control is the key to our consistency. Unlike competitors who outsource complexity, we maintain everything in-house. Our headquarters houses a full-stack engineering team, a dedicated machine shop, and advanced 3D printing capabilities. We manage the entire lifecycle—from initial design to final wiring—under one roof. This integrated approach eliminates vendor friction and ensures every part meets our specific requirements. Whether you need an off-the-shelf engine or a custom integrated solution, we provide the infrastructure to design, manufacture, and test it on our FAA-certified range.

We are an American small business with a global footprint. Products like our NW-44 and NW-88 heavy-fuel engines are the direct result of constant research and practical, hands-on engineering. Our NWFC-1500 hydrogen fuel cell follows this same path of rigorous development. Northwest UAV exists to get your systems into the air on time and within budget. We deliver the propulsion. You complete the mission.



For more information please call or visit www.nwuav.com to download the data sheet for additional details. Engine application is dependent on airframe factors including: Aerodynamics, propeller, and operational concept. Please contact NWUAV for guidance.

YOUR ONE-STOP-SHOP | PROPULSION & PAYLOAD INTEGRATION SPECIALISTS



TABLE OF CONTENTS

08/24/2026

NORTHWEST UAV — PROPULSION

NWUAV NW-44 Multi-Fuel Engine	4
NWUAV NW-88 Multi-Fuel Engine	5
NWUAV NW-230 Multi-Fuel Engine	5
NWUAV NW-1500 Hydrogen Fuel Cell	5

NORTHWEST UAV — PRODUCTS

NWUAV Engine Control Unit (ECU)	6
NWUAV Fuel Delivery System (FDS)	6
NWUAV Frameless/Brushless Generator	6
NWUAV Generator Control Unit (GCU)	6
NWUAV RFQ Mufflers	7
NWUAV Portable Engine Test Cell	7
Machine Shop Equipment	7

DISTRIBUTED PRODUCTS

Pegasus Servo Actuators	11
Veronte Autopilots/Avionics	13

NORTHWEST UAV — SERVICES

Certified Quality Without Compromise	8
Data-Driven Endurance Testing	8
Precision Engineering & Lifecycle Support	8
Vertical Manufacturing Solutions	9
Advanced Electrical & Wire Harness Lab	9
FAA-Approved FAST UAS Test Range	9

AS9100D AEROSPACE STANDARDS / ISO9001 CERTIFIED

We meet or exceed our AS9100D Aerospace Standards & ISO 9001:2015 Quality Management Certification for design, develop, manufacture, maintenance, repair, overhaul and testing of gasoline and heavy fuel engines for the Unmanned Vehicle industry. Precision CNC machining and prototyping of metallic and non-metallic components. Electro-mechanical assembly and wiring harness assembly for various industries.



AS9100 REV D | ISO9001

PROVEN, RELIABLE, AND EFFICIENT – ENGINEERED FOR MISSION SUCCESS

Northwest UAV designs and manufactures UAV engines purpose-built for unmanned aircraft across commercial, defense, and research applications. Whether for long-range missions, heavy-lift capability, or critical defense operations, Northwest UAV engines deliver the innovation and dependability that today's UAV platforms demand.



28,000+ OPERATIONAL HOURS

The NW-44 doesn't just power your aircraft; it optimizes it. By choosing a system that balances low drag with high power output, you gain a competitive edge in endurance and mission capability.

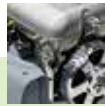
01. NW-44 3.5 HP SINGLE-CYLINDER MULTI-FUEL ENGINE

The NW-44 sets the standard for small UAV propulsion. It is the most adaptable system in its class, specifically built for aircraft between 18 and 34 kg. While current performance is optimized for this weight range, we are actively scaling this technology into larger, multi-cylinder configurations to support a broader fleet of unmanned systems.

Efficiency and reliability aren't just goals; they are built into the hardware. We've replaced bulk with precision engineering to ensure your aircraft stays in the air longer.

Core Specifications and Benefits:

- Customizable Power:** Choose from multiple generator outputs tailored to your specific mission requirements.
- High Payload Support:** Our 280-watt direct-drive generator provides 250 watts of dedicated power for your payload and aircraft systems.
- Integrated Power Management:** Includes a versatile Generator Control Unit (GCU) supporting 6, 12, 21, or 28 volts.
- Advanced Acoustics:** The lightweight, conformal muffler is aerodynamically tuned to keep the engine quiet without sacrificing performance.
- Streamlined Efficiency:** The conformal design eliminates parasitic drag, directly increasing your net fuel efficiency.
- Domestic Reliability:** Every unit is proudly manufactured in the USA.

FEATURE	 NW-44	 NW-88	 NW-230
UAS Classification	Group 2	Group 3	Group 3
Target MTOW Range	18-34 kg (40-75 lbs)	34-68 kg (75-150 lbs)	90-160 kg (198-352 lbs)
Displacement	43.6 cc	88 cc	230 cc
Power Rating ¹	3.5 hp @ 7250 rpm	7.3 hp @ 7250 rpm	Max 7200 rpm / 15-18 hp
Max Density Altitude	Optimized for Low/Mid Alt	Flown to 18,000 ft	Validated to 36,000 DA
Fuel Compatibility ²	Heavy Fuel / Gasoline	Heavy-Fuel / Gasoline	Heavy-Fuel / Gasoline
Primary Advantage	Minimized Drag/Endurance	Combat-Proven Stability	High TBO & Telemetry
Best For...	Long-soak ISR / Small Tac	Tactical Relay / SAR	HALE Missions / Heavy Cargo

NOTE: Actual performance will vary depending on PMU configuration, application, propeller, fuel type, oil, environmental conditions, type of operation, direction of rotation, generator losses, and cowling configuration. ²Depending on propeller/rpm. | ¹Jet-A, JP-5, JP-8 and non-ethanol gasoline (R+M)2 (93-100 octane). Fuel is subject to regional and seasonal variations. The user is responsible for testing, validating, and defining operational limits with their local gasoline source.



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FLOWN UP TO 18,000FT

The NW-88 arrives ready to fly. It strips away the complexity of integration, allowing you to focus on the mission instead of the mechanics. If you need a reliable, high-output engine that scales with your operational demands, this is the solution.



36,000FT DA

Ultimately, the NW-230 is more than an engine; it is a strategic asset. By prioritizing increased endurance and reduced fuel burn, it provides operators with a highly configurable, scalable, and dependable solution for demanding aerial missions.



DEVELOPED & FLIGHT TESTED WITH THE NRL

02. NW-88 7.2 HP TWO-CYLINDER MULTI-FUEL ENGINE

The NW-88 is the definitive propulsion standard for Group II and III UAVs. Built specifically for aircraft in the 34 to 68 kg weight class, this multi-fuel engine delivers a level of efficiency and adaptability that off-the-shelf conversions simply cannot match. It is designed for one purpose: to keep your aircraft in the air longer with more equipment on board.

Performance matters. By combining high endurance with a low-noise profile, the NW-88 ensures your mission remains effective and undetected.

Technical Advantages:

- **Optimized Power:** A custom 280-watt direct-drive generator provides 250 watts of dedicated power for your payload and aircraft systems.
- **Smart Power Management:** Integrated Generator Control Unit (GCU) supports 6, 12, 21, or 28-volt configurations.
- **Aerodynamic Efficiency:** The con-formal design eliminates parasitic drag, maximizing every drop of fuel.
- **Precision Control:** Full RPM-hold capability for stable, predictable flight dynamics.
- **Seamless Integration:** Plug-and-play interface with the industry's most popular autopilots.
- **Certified Quality:** AS9100-compliant and manufactured entirely in the USA.

03. NW-230 15-18 HP TWO-CYLINDER MULTI-FUEL ENGINE

The NWUAV NW-230 EFI engine represents the pinnacle of pragmatic engineering for Group III unmanned aircraft systems. Purpose-built for the 90 to 160 kg weight class, this powerhouse is engineered to maximize operational uptime and deliver uncompromising reliability for long-endurance flights and portable power generation.

In the commercial UAV market, efficiency and durability are operational imperatives. The NW-230 answers this call by extending engine life and stretching maintenance cycles while minimizing fuel consumption. It is designed to keep your aircraft in the sky and out of the repair shop.

Core Operational Advantages:

- **Unmatched Performance:** Delivers the industry's best power-to-weight ratio, directly enabling larger payloads, steeper climb rates, and faster cruise speeds.
- **Versatile Fuel Compatibility:** Seamlessly operates on heavy logistic fuels and standard gas, adapting to diverse deployment environments.
- **Advanced Telemetry:** Integrated trend monitoring proactively tracks engine health, allowing operators to anticipate maintenance needs and prevent costly unexpected downtime.
- **Streamlined Maintenance:** Engineered for absolute simplicity, ensuring routine servicing is fast and highly efficient.
- **Scalable Architecture:** Easily integrates into a broad spectrum of aircraft platforms and custom configurations.
- **American-Made Reliability:** Proudly manufactured in the USA, backed by comprehensive, included technical support.

04. NWFC-1500 H₂ FUEL CELL

Stop overcomplicating your power requirements. These units sit in the 18–25 kg weight class and provide a streamlined alternative to traditional energy sources, slashing maintenance needs and operating costs. They offer a distinct tactical edge through near-silent operation and a minimal thermal footprint. When missions demand immediate action, these systems deliver clean, efficient power. Proudly manufactured in the USA, ensuring high-tier quality control and supply chain security.

- **Rapid Response/Tactical Silence**
- **Flexible Integration**
- **Mission Ready**
- **Domestic Production**

RELIABLE COMPONENTS ENGINEERED FOR MISSION SUCCESS

Reliability is never a guess; it's an engineering requirement. We vet every component so your systems fly higher and quieter. Stop settling for unverified hardware. Our products deliver the endurance and precision your missions demand. Data-backed performance starts here.



01. NWUAV ENGINE CONTROL UNIT (ECU)

Built for UAVs, this American-made ECU masters extreme conditions. Delivers interference-free, programmable power for smooth throttle response. Rugged. Versatile. Fits most engines. Reliable performance when failure isn't an option.

Compatibility	10 to 30 V
Communication	CAN Bus protocol
Data Recording	Up to 500 hours
Connector	MIL-SPEC 51 Micro-D
Control	Closed Loop with Adaptive Learning
Dimensions (LxWxH)	4.6 x 3.3 x 0.975 in
Weight	117 x 110 x 248 mm 175 g



02. NWUAV FUEL DELIVERY SYSTEM (FDS)

This American-made unit delivers clean, high-pressure fuel for EFI. It is compact and customizable; integrated sensors monitor level and pressure. A serviceable filter ensures long-term reliability. Direct. Practical. Built to work.

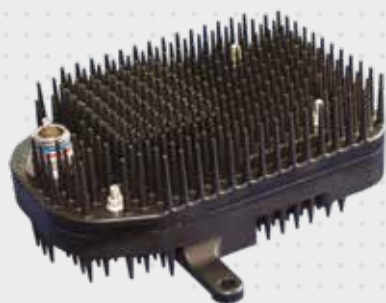
Dimensions (LxWxH)	6.7 x 4.04 x 2.65 in 170.21 x 102.64 x 67.39 mm
Fuel Pressure	Up to 60 psi
Priming	Self-priming with Acroatic Fuel Pickup
Empty Weight	410.5 g (dry/no tubing)
Total Weight w/Fuel	726.5 g (fuel wt. 316 g)



03. NWUAV GENERATOR (FRAMELESS/BRUSHLESS)

Small footprint, massive output. This unit fits easily into your setup and hits 90% efficiency. We use high-grade magnets to ensure peak performance. It's compact, durable, and strictly effective. Reliable power where you need it most.

Power Output	310-Watts
High-Grade Permanent Magnets	150 V @ 3000 rpm 400 V @ 8000 rpm
Max Operating Temp	250°F/121.111°C
Rotor Dimensions (THICKxODxID)	0.78 x 2.44 x 1.9 in 20 x 62 x 48 mm
Rotor Weight	144 grams
Strator Dimensions (THICKxODxID)	1.4 x 3.05 x 2.46 in 35 x 77 x 62 mm
Strator Weight	314 g



04. NWUAV 280-W GENERATOR CONTROL UNIT (GCU)

Optimized for permanent magnet alternators. This EMI-shielded unit survives heavy shock and vibration. It pairs MIL-grade connectors with IP67 durability in a small footprint. Reliable performance. Minimalist design. Built to last.

*Cooling air may be required based upon integrations and application.



05. NWUAV RFQ UAV MUFFLERS

Quiet. Efficient. Effective. Patented design slashes UAV noise and fuel use. We custom-fit every unit to your aircraft's airflow and available space. Fits single or multi-cylinder engines. Performance is mandatory.



06. NWUAV PORTABLE ENGINE TEST CELLS

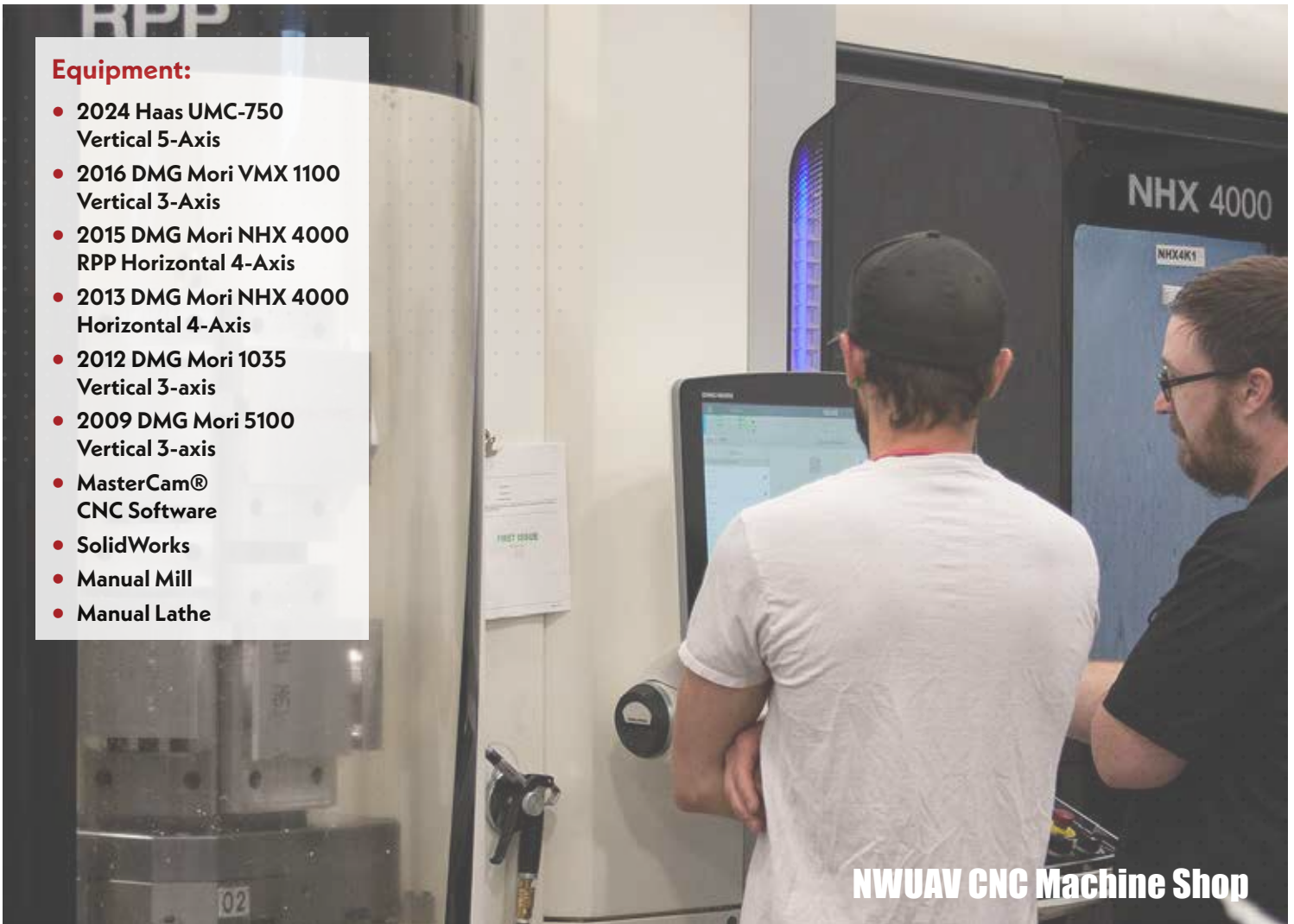
Portable. Self-contained. NWUAV engine test cells thrive indoors or out. We build to your specs, adding side hatches for larger aircraft. Purchase, lease, or hire our crew. Proven testing results, delivered.

Measurement Capabilities

Torque	Fuel Flow
Ambient Pressure	Ambient Temperature
Relative Humidity	Exhaust Gas Temperature
Cylinder Head Temp.	Engine Speed (rpm)
Horsepower	
Brake Specific Fuel Consumption (BSFC)	
Custom Options Available	

Equipment:

- 2024 Haas UMC-750 Vertical 5-Axis
- 2016 DMG Mori VMX 1100 Vertical 3-Axis
- 2015 DMG Mori NHX 4000 RPP Horizontal 4-Axis
- 2013 DMG Mori NHX 4000 Horizontal 4-Axis
- 2012 DMG Mori 1035 Vertical 3-axis
- 2009 DMG Mori 5100 Vertical 3-axis
- MasterCam® CNC Software
- SolidWorks
- Manual Mill
- Manual Lathe



NWUAV CNC Machine Shop



PRECISION PROPULSION BUILT FOR MISSION SUCCESS

AS9100 REV D | ISO9001

01. CERTIFIED QUALITY WITHOUT COMPROMISE

Compliance is not a checkbox; it is the foundation of airworthiness. Our AS9100D Aerospace Standards and ISO 9001:2015 certifications ensure every component—from fuel pumps to full engines—undergoes rigorous quality management. We maintain strict DCAA compliance and ERP document control to guarantee traceability and consistency across your entire fleet.

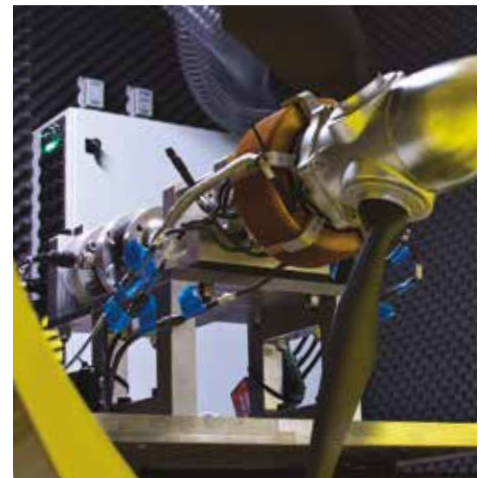
- AS9100D & ISO 9001:2015 Certification
- Full DCAA Accounting Compliance
- Strict ERP-Driven Document Control
- In-Depth Internal Quality Audits
- Advanced Supply Chain Management
- Standardized Aviation Training



02. DATA-DRIVEN ENDURANCE TESTING

Engine failure is not an option. We mitigate flight risk using advanced engine run-in stations and dynos to validate performance before takeoff. Our facility provides real-time in-cylinder pressure mapping and acoustical analysis to ensure your propulsion system meets FAR 33 standards, delivering the TBO and reliability your mission demands.

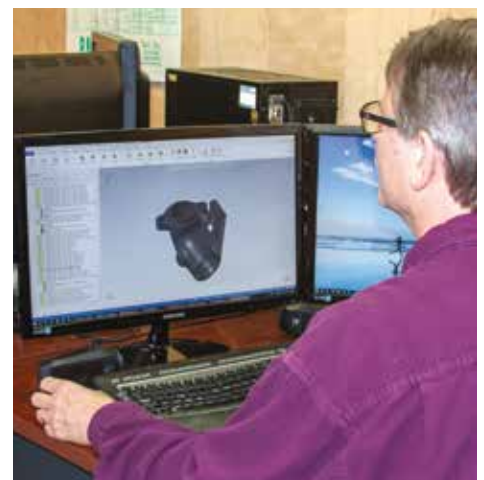
- FAR 33 Based Durability Standards
- Real-Time In-Cylinder Pressure Maps
- Automated Engine Break-In Stations
- Acoustical Detectability Analysis
- Remote Engine Control & Monitoring
- Fuel Economy & Torque Mapping



03. PRECISION ENGINEERING & LIFECYCLE SUPPORT

Successful propulsion requires a comprehensive approach to the system's entire lifecycle. Our engineers specialize in heavy-fuel conversions and hydrogen power, utilizing SolidWorks and Altium for precision design. We address the trade-offs of unmanned flight early, ensuring your power plant is optimized for weight, fuel type, and altitude.

- Mechanical & Aerospace Engineering
- Heavy-Fuel Propulsion Specialists
- Hydrogen Power System Development
- Proprietary Low-Acoustic Propellers
- Global Field Service Maintainers
- Comprehensive Lifecycle Management



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You need a propulsion partner that prioritizes reliability over rhetoric. Northwest UAV delivers end-to-end engineering and manufacturing within an AS9100D certified ecosystem. From heavy-fuel engine development to rapid 3D prototyping and dedicated flight testing, we provide the technical infrastructure to move your system from CAD to the clouds.



04. VERTICAL MANUFACTURING SOLUTIONS

Eliminate vendor friction with our all-in-one manufacturing ecosystem. From CNC machining to SLS 3D printing, we build-to-print or integrate COTS components within our certified facility. This vertical integration allows us to produce over 500 modules monthly while maintaining the agility to support rapid prototyping and custom builds.

- AS9100 Aerospace Certified Engine Assembly
- COTS & Build-to-Print Integration
- High-Precision CNC & CMS Machining
- Selective Laser Sintering (SLS)
- Professional Technical Writing
- Scalable Lean Production Workflows



05. ADVANCED ELECTRICAL & WIRE HARNESS LAB

Electrical failure is a leading cause of UAS loss. Our dedicated shop designs and tests complex, multi-leg harnesses that withstand the vibration and environmental stress of unmanned operations. We build everything from ignition coils to fuel delivery systems, ensuring your electrical architecture is as robust as your airframe.

- Complex Multi-Leg Wire Harnesses
- High-Pressure EFI Fuel Systems
- Precision Timing & Temp Sensors
- Shielded Military-Grade Connectors
- Integrated Ignition Coil Assembly
- Component-Level Electrical Testing



06. FAA-APPROVED FAST UAS TEST RANGE

Bridge the gap between the lab and the sky at our FAA-certified COA FAST Test Range. Located minutes from our headquarters, this facility offers 5 nautical mile radius of low-traffic airspace for flights up to 5,000 feet. With onsite MRO support and Part 107 pilots, you can analyze, adjust, and re-fly your system in a single afternoon.

- FAA Certified 5-Nautical Mile Flight Radius
- Flight Ceilings up to 5,000 Feet
- On-Site Part 107 Drone Airmen/Remote Pilots
- Direct MRO & Repair Shop Access
- Air Traffic Control & Airfield Operations Management
- Secured Office/Space Rental, & RV Parking with Utility Hookups



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Exclusive Authorized United States
Distributor for UAV Servo Actuators

PROVEN CONTROL: HIGH-PERFORMANCE ACTUATORS FOR ANY MTOW

Pegasus actuators deliver. Whether aircraft weigh 30 or 1,000 lbs, our systems ensure precision. UAV or piloted, choose stock or custom builds. Forget hype. Get reliable hardware engineered specifically for your mission.



German Certification
Institute TÜV SÜD
Certified according to
ISO 9001:2015



01. PEGASUS INDUSTRIAL SERVO ACTUATORS

Pegasus industrial actuators deliver reliability through simplicity. We use oil bath lubrication to extend gear life and shield components against magnetic interference. These aerospace-grade units withstand high vibration while meeting IPC Class 3 standards. Compact, digital, and built to last.

Continuous Torque	30 Ncm to 2000 Ncm
Max Torque	>60 Ncm to >3500 Ncm
Operation Voltage	6/12, 12 or 24 V DC
PC-Board	Digital (Programmable) with differential and analog sensor feedback
Weight	65 to 1500 g



02. PEGASUS REDUNDANT SERVO ACTUATORS

Pegasus redundant actuators provide reliable control for high-value drones and surfaces. Designed for flaps and throttles, these units feature contactless sensors and optional heating. They deliver up to 3500 Ncm of torque. Performance you can trust.

Continuous Torque ¹	300 Ncm to 2000 Ncm
Max Torque	>500 Ncm to >3500 Ncm
Operation Voltage	24 V DC
PC-Board	Dual Servo Controller with Digital Position Feedback
Weight	480 to 2300 g



03. PEGASUS OPV SERVO ACTUATORS

Pegasus OPV (Optionally Piloted Vehicles) servos ensure safety in manned and unmanned flights. A dual-clutch system lets pilots take control instantly or engage at any position. This rugged, smart design prioritizes total vehicle authority. Redundant 24V OPVs available. Reliable and precise.

Continuous Torque ¹	300 Ncm to 2000 Ncm
Max Torque	>500 Ncm to >3500 Ncm
Operation Voltage ²	12 or 24V DC // 24V DC
PC-Board	Dual Servo Controller with Digital Position Feedback

¹According to Pegasus Actuators GmbH Specification Test (results by request). ²Depending on model.

03. CUSTOM & SPECIALTY UAV ACTUATORS FOR PROVEN RELIABILITY FOR EXTREME CONDITIONS

Pegasus builds robust actuators for critical environments. Our internal heating IH Actuator series operates flawlessly at **-84°C**, using redundant systems to guarantee high-altitude performance. Beyond extreme cold, we engineer custom OEM solutions featuring compact clutch assemblies and specialized thermal management. The **PA-R-800-9-C-24-180-00 OPV** a lightweight, compact electromagnetic clutch assembly, **HALE redundant servo actuators**, and the **PA-R-340-7** simplex duplex magnetic clutch assembly. We also offer CANopen communication protocols for seamless system integration. **Custom Pegasus actuators built to your exact specifications, when standard hardware fails, Pegasus delivers.**

For questions on Pegasus Actuators product prices, capabilities, custom integration, training and support contact David Jackson, David.Jackson@nwuav.com or call 503.434-6845 x 185.



MILITARY PROVEN PROPULSION SOLUTIONS!

NWUAV A Global Company | +1 503.434.6845 | customerservice@nwuav.com | www.nwuav.com



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VERONTE
A U T O P I L O T S

Authorized United States Distributor

PRECISION CONTROL. TOTAL AUTONOMY.

Veronte Autopilots, control stations, software, payload and accessories with fully autonomous control for almost any unmanned vehicle. From multirotors to fixed-wings, our systems ensure mission success. Achieve total reliability with our comprehensive kits or standalone accessories. Your flight, perfected.



01. VERONTE AUTOPILOT – 1x

Compact Command and Control. The Autopilot 1x is a miniaturized flight control system built for the rigorous demands of drones and autonomous vehicles. It combines internal sensors, 4G communications, and Remote ID into one reliable unit. We developed this hardware to meet strict aviation standards, ensuring your platform is flight-ready and safe.

Internal Sensors	3x IMU, 3x Magneto, 2x Barometer, 1x Pitot
Positioning	2x GNSS, RTK, GNSS Heading
Buses	CAN, RS232, RS485, 12C, UART
Temperature Range	-40°C to 65°C
Power	5-15W / Input: 6.5-36V DC/ Redundant
Weight	198 g / 2 g (ADS-B/Remote ID)



02. VERONTE AUTOPILOT – 4x

Redundant Control for Critical Missions. The Autopilot 4x is a fail-operational flight control system built for platforms that cannot afford to drop from the sky. Its redundant architecture eliminates single points of failure, ensuring your aircraft remains stable even if a component fails. It is the practical choice for drones and eVTOLs operating in high-stakes environments.

Internal Sensors	9x IMU, 9x Magneto, 6x Barometer, 3x Pitot
Positioning	6x GNSS, RTK, GNSS Heading
Buses	CAN, RS232, RS485, 12C
Temperature Range	-20°C to 70°C
Power	17-47W / Input: 6.5-36V DC/ Redundant
Weight	615 g / 631 g (ADS-B/Remote ID)



03. VERONTE AUTOPILOT – DRx

Precision Flight Control. Safe autonomous flight requires more than basic software. The Veronte Autopilot DRx provides a rugged, distributed architecture that eliminates single points of failure. It is the practical choice for scaling urban air mobility safely.

Internal Sensors	6x IMU, 6x Magneto, 6x Barometer, 3x Pitot
Positioning	9x GNSS, RTK, GNSS Heading
Buses	CAN, RS232, RS485, 12C
Temperature Range	-40°C to 60°C
Power	3x 5-15W / Input: 6.5-36V DC/Redundant
Weight	198 g



04. VERONTE VISION NAVIGATION – VBN 1.0

Precision Flight Control. Safe autonomous flight requires more than basic software. The Veronte Autopilot DRx provides a rugged, distributed architecture that eliminates single points of failure. It is the practical choice for scaling urban air mobility safely.

Internal Sensors	Camera: EO, 1.6 MP, 30 FPS, 1440x1080 px / Other: IMU, Temperature
Positioning Accuracy	0.3-1.0 m CEP, Autopilot Sensor Fusion
I/O	CAN 20., CAN-FD, RS232, RS485, GPIO
Temperature Range	-40°C to 60°C
Power	6.5-36 V / 10W Typical/ Redundant
Weight	328 g



Continued next page



05. VERONTE AUTOPILOT SIMULATOR – HIL & SIL

Validate your flight systems without risking your airframe. The Autopilot HIL (Hardware In The Loop) simulator uses actual hardware and real actuator movements to confirm your GNC algorithms work in the physical world. This setup is essential for finding configuration errors and training operators in a controlled environment.

For earlier design phases, the Autopilot SIL (Software In The Loop) simulator offers a high-speed virtual environment. It allows you to simulate complex weather and sensor failures faster than real-time. Both simulators provide the data needed to prove system robustness for certification.



06. VERONTE CONTROL STATION – LCS

Field-Ready Command and Control. The Control Station LCS is a turnkey solution for demanding autonomous operations. Built for the field, it features a ruggedized chassis and a high-capacity internal battery. It is the practical choice for operators who need a reliable interface that works wherever the mission goes.

OS	Windows 11 Pro
CPU	Intel Core i7-1185G7 vPro Processor
Memory	16GB Ram, SSD 512GB
Display	14", FHD 1920-1080, Capacitive Gloved touch
Battery	Up to 25 hours / Express Charging
AC Adapter	AC 100V-240V Worldwide Power



07. VERONTE CONTROL STATION – PCS

Professional Communications Hub. The Control Station PCS is an advanced ground station designed to manage any Veronte-powered vehicle. It centralizes every component needed for complex UAV and autonomous missions into one reliable unit. It is the practical choice for operators who value streamlined logistics and total hardware compatibility.

Embedded Sensors	RTK, IMU, Barometer, QNH
GCS Computer	Laptop, Tablet, PC
GCS Interface	WiFi, Ethernet, USB
Expansion Bay I/O	RS232, CAN Bus, Ethernet, GPIO, Power
Power Input	14-24VDC
Power	30W (w/o Radio), Up to 80W (w/Radio)



08. VERONTE TRACKING ANTENNA – T28

The Tracking System T28 is a professional-grade ground station designed to maintain stable communication over 200km. Built for harsh environments, this system uses high-torque actuators and precision encoders to point your antenna with absolute accuracy. It is a practical necessity for long-range missions where signal loss is not an option. By integrating telemetry data directly

from your vehicle, the T28 ensures your link remains locked regardless of altitude or distance. You can install any directional hardware, including Yagi, patch, or parabolic grid antennas, to suit your specific mission requirements. The system is designed for rapid deployment; it features a detachable frame and a configurable mast for optimal line-of-sight positioning.



09. VERONTE AVIONICS – DC-DC CONVERTERS

Reliable Power Conversion. The Avionics RxxF: R12F, R24F are high-performance 60W DC-DC converters built for mission-critical hardware. They handle a wide input range from 14V to 160V, delivering a steady 12V or 24V output. Whether you need a lightweight OEM board or a rugged IP67 aluminum housing, this unit ensures your systems stay

powered in any environment. Efficiency matters when every watt counts. The RxxF series operates at 89% efficiency and functions perfectly in temperatures from -40°C to 75°C. With a 5A maximum output current, it provides the stable energy flow required for sensitive onboard electronics without adding unnecessary bulk to your aircraft's frame.



For more information please call or visit www.nwuav.com to download the data sheet for additional details. Engine application is dependent on airframe factors including: Aerodynamics, propeller, and operational concept. Please contact NWUAV for guidance.

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10. VERONTE AVIONICS I/O EXPANSION – CEX & MEX

Scale your system with Veronte. Choose the 115g CEX for DO-compliant bus protection and 68-pin I/O expansion. For lighter needs, the 100g MEX adds a 3-axis magnetometer via a 34-pin latch. Both offer redundant power and rugged vibration resistance. Reliable. Efficient. Proven.

Power Input	6-36VDC, Redundant
Buses	2x CAN Bus, 2x RS232, 1x RS485, 1x 12C
CEX Connector	68 PIN, Threaded
MEX Connector	34 PIN, Latch
Temperature Range	-40°C to 60°C
Power	CEX - 3.5W MEX - 3W
Weight	CEX - 115 g MEX - 100 g / 50 g OEM



11. VERONTE AVIONICS I/O EXPANSION – STICK, SERIAL & SHIFTER

Streamline custom drone builds with three precise modules. The Serial Avionics RS232-RS485-UART Converter flawlessly bridges communication ports. This 3g unit safely handles 5VDC power across varied I/O. For tight airframes, the SHIFTER Avionics PWM Level Shifter scales binary signals up to 12V. Weighing a mere 0.5g, it preserves

critical payload capacity. The STICK Avionics USB to PPM Stick Converter securely ties standard commercial flight sticks directly to custom control decks. This 280g component operates reliably across extreme temperature ranges. Precision hardware. No wasted space. Build confidently.



12. VERONTE AVIONICS DATALINK – SDL & XDL24

Avionics SDL secures drone links across 400MHz, 900MHz, or 2.4GHz bands. Rugged IP67 housing protects quad-filter frequency hopping hardware, neutralizing interference for low-latency RS232 communication. For USB-C connectivity, Avionics XDL24 leverages Digi XBee 3 PRO modules to bridge Veronte Autopilots and ground stations.

This 82g unit survives -40°C to 85°C while maintaining secure telemetry. These datalinks eliminate connectivity failure in harsh environments. Proven hardware for serious operations.

SDL Datalink Models: SDL04, SDL09 (band segments: selectable via frequency zones, and SDL24



13. VERONTE MOTOR CONTROLLERS – MC01 & MC110

Precision vs. Power — You need the right motor controller to maximize aircraft performance. The MC01 and MC110 serve entirely different purposes. Choose based on your exact scale. The MC01 is built for precision. It is small and lightweight. Use it to control brushless or stepper motors in gimbals and tracking antennas. Fast reaction

times keep cameras steady for critical, long-range tracking.

The MC110 drives large eVTOLs and drones. It pushes up to 800V and 200A. This liquid-cooled inverter delivers 110kW of power. It meets strict aviation safety standards for reliable flight control. Both offer advanced tuning.



For questions on Veronte product prices, capabilities, custom integration, training and support contact David Jackson, David.Jackson@nwuav.com or call 503.434-6845 x 185.

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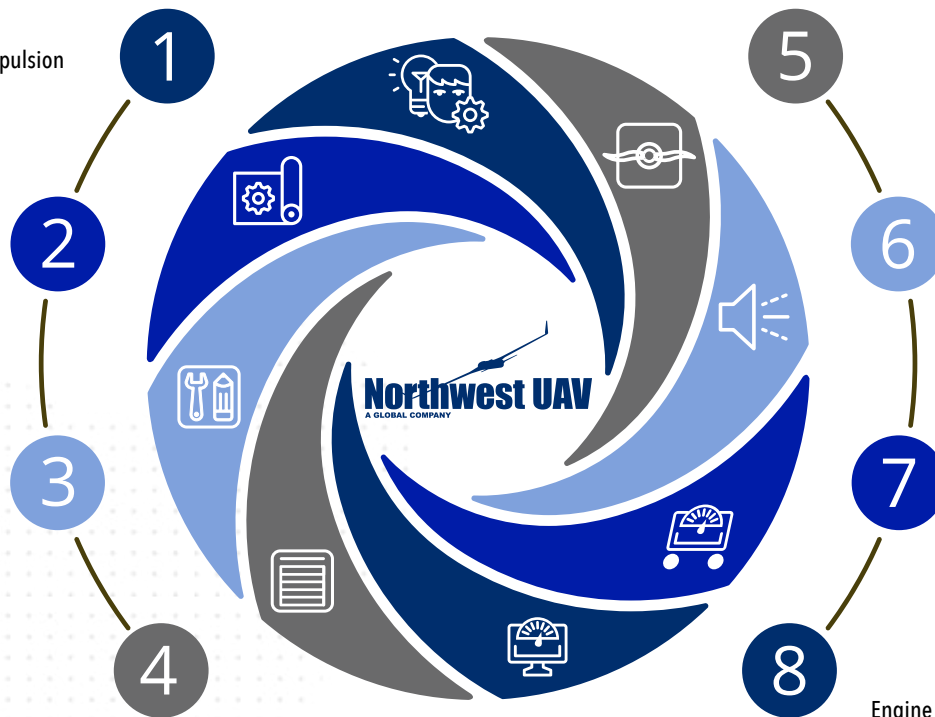
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