

## **NW-230 HEAVY-FUEL ENGINE**



From single components to entire propulsion systems – Our main focus is in propulsion solutions, modular components and support solutions for any UAV or unmanned system.

NWUAV purpose-built NW-230 EFI multi-fuel (heavy-fuel/gas) engine is designed, developed and built for Group III unmanned aircraft systems in the 90 to 160 kg (198 to 352 lb) range, long endurance aircraft and portable power generation.



## **SPECIFICATIONS**

NW-230 EFI HF	
Weight <sup>1</sup>	10 kg ± 200 grams
Displacement	230 сс
Bore	54 mm
Stroke	50 mm
Peak Torque	~15 ft/lbs
Max. RPM	7200 rpm
Horsepower Range <sup>2</sup>	15-18 hp
BSFC Range	Call for Data
Ignition	Twin 25kv Capacitor Discharge Ignition (CDI) per cylinder
Cooling	Air with Patented Active Cylinder Head Temperature (ACHT) Control
Generator Regulator	Customer Specific – Solutions Available
Generator	Customer Specific – Solutions Available
Fuel System	Full Authority Digital Engine Controller with Electronic Fuel Injection
Fuel Type	Non-ethanol 93-100 octane gasoline (R+M)/2, Jet-A, JP-5, JP-8, TS-1
TBO (Estimate)	500+ hours

NOTES: Actual performance will vary depending on PMU configuration, application, propeller, fuel, oil, environmental conditions and type of operation.

Includes: ECU, Muffler, Engine Mount, ACHT, and Engine Harness.

Engine application is dependent on airframe factors including: Aero-dynamics, propeller, and operational concept. Please contact NWUAV for guidance.



## The NW-230 is the most efficient and configurable **UAV** engine on the commercial market.

- Built for Reliability
- Based on the Combat-proven NW-44 & NW-88
- **Built Specifically for Unmanned Applications**
- Scalable for Use in a Broad Range of Aircraft
- Logistic Fuels Compatible
- Best Power-To-Weight Ratio
  - ➤ Larger Payloads
  - ➤ Higher Climb Rates
  - ➤ Faster Cruise Speeds
- Easy Maintenance
- Technical Support Included
- Telemetry Trend Monitoring





## Additional Features

- Twin-cylinder engine
- RPM hold capable
- Dual ignition (per cylinder)
- Dual piston rings
- Automatic altitude compensation
- Telemetry:
  - ➤ Speed
  - ➤ Fuel consumption
  - Throttle position
  - Cylinder temperature
  - > Intake air temperature

- Easy cold start
- CAN communication
- Fuel injection
- Lightweight quiet acoustic muffler
- Interfaces with popular
- Conformal design mitigates unwanted parasitic drag, which increases net efficiency
- MANUFACTURED IN THE USA



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<sup>&</sup>lt;sup>1</sup>Weight does not include Generator, Generator Controller/Rectifier, or Propeller

<sup>&</sup>lt;sup>2</sup>Depending on propeller/RPM.