

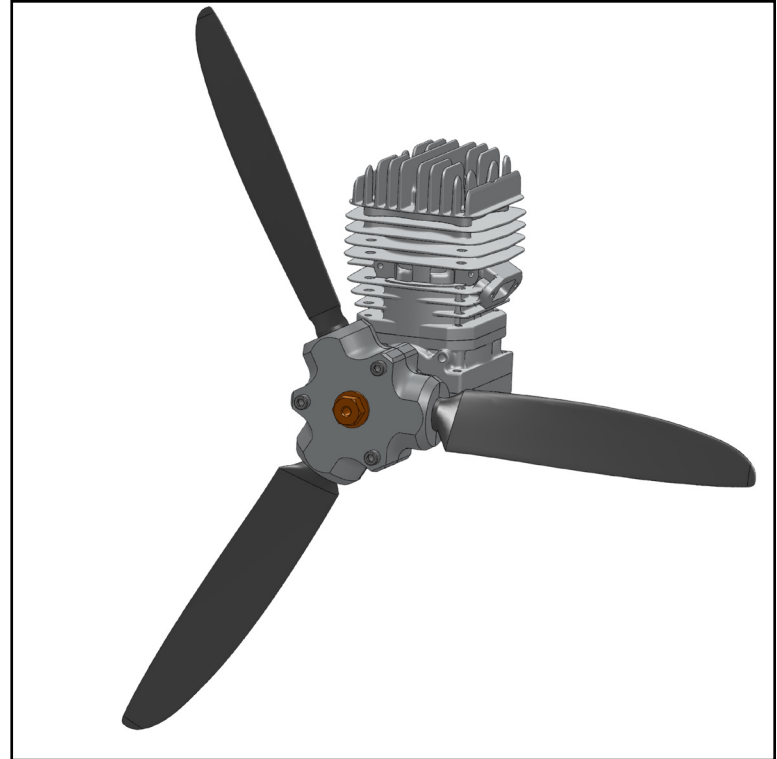
DESIGNED FOR UNMANNED AIRCRAFT SYSTEMS & PORTABLE POWER GENERATION

This HFE is a purpose-built engine, designed exclusively for use in high altitude / long endurance aircraft and is intended to gain STANAG 4671 and FAA certification. It is typically used for IRS missions within the DOD and in civilian uses to monitor climate change, map glaciers, monitor forest fires and for local police enforcement work.

This HFE is scalable for use in various classes of aircraft with multiple fuel types and incorporates materials not available with COTS engine designs. These advanced materials incorporate characteristics needed for lighter weight and better performing engines when utilizing heavy fuels. (JP5, JP8, Bio-Diesel and logistics fuels).

This HFE can be scaled with multiple cylinder configurations giving it flexibility beyond designs currently available. Incorporating NWUAV's MEMS Fuel Injection System and variable pitch propeller (scalable up to 20 hp), the HFE will dramatically enhance engine system performance.

This HFE will be manufactured entirely in the USA to ensure engine/system availability in the future.



FEATURES/BENEFITS

- Dual output shaft allows for superior flexible system integration
- 2-ring pistons, Nikasil coated cylinders, oversize bearings, etc. allows increased TBO (600 hours estimated)
- Dual spark plug capability ensures complete fuel burn for heavy fuels
- Rotatable Cylinder allows flexible integration

SPECIFICATIONS

- 34cc single cylinder
- 2 HP
- 1.7lbs
- V-Twin, V4 and V6 designs available with 34cc cylinders
- Variable Pitch Propeller System available (ground adjustable or in-flight)

