

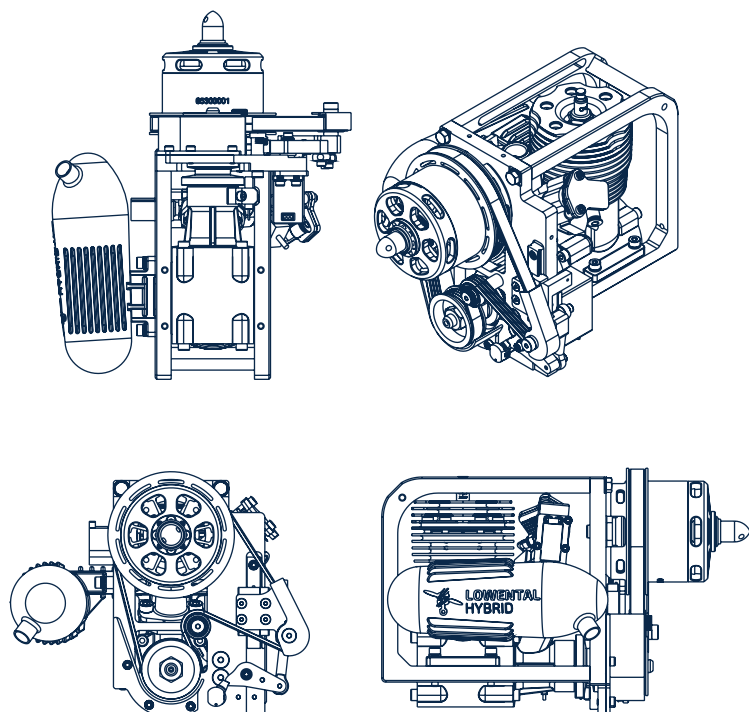
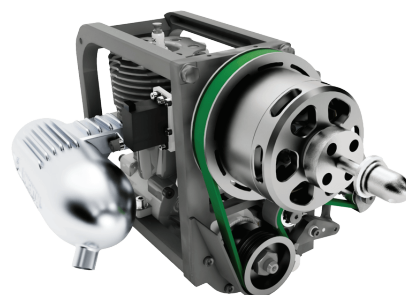
LH-02 The World's First Parallel Hybrid Propulsion for UAVs

Lowental Hybrid introduces LH-02, the next-generation propulsion system built on our proprietary Native Parallel Hybrid™ architecture, purpose-built for tactical UAVs and loitering munitions ranging between 30-45kg MTOW. Unlike conventional electric or combustion systems - or retrofitted 'hybrids' - LH-02 was engineered from the start as a true parallel hybrid.

It delivers what missions demand: up to 5x longer endurance, silent operation when required, and field-proven reliability. With seamless switching between electric and combustion modes, in-flight battery charging, and built-in redundancy, LH-02 combines endurance, flexibility, and assurance - all in one compact, mission-ready system.

Key Capabilities:

- Fully Parallel hybrid including Motor/Starter/Generator + ICE
- 5x Endurance vs. fully electric UAVs
- In-flight charging for sustained operations
- Drop-in integration for fixed-wing and VTOL platforms
- Stealth & power on demand – choose battery-quiet or combustion strength
- Built-in redundancy for mission assurance



LH-02 Operational Specification

Usage	Hybrid drive system for fixed wing/VTOL
Typical MTOW	30-45 kg 66-99 lb
Max Electric Output Power	3,600 W 4.82 HP
Nominal Electric Power Output (Avionics/Charging)	300 W
Max Gasoline Output Power	2,385 W 3.2 HP
Engine Type	Air-cooled, 2-stroke single cylinder
Starting Method	Automatic
Fuel Type	Pre Mixed Gasoline / Heavy fuel + 4% Two Stroke Oil
Fuel Delivery	EFI (Electronic Fuel Injection)
Average Nominal Specific Fuel Consumption Rate	Gasoline - 0.43 - 0.48 kg/kW·h Heavy Fuel - 0.46 - 0.51 kg/kW·h
Full System Weight	3.3 kg 7.3 lb
Operating Temperature	-20°C to +50°C -4°F to +122°F
Operating Altitude	0 - 3,960 m 0 - 13,000 ft
MTBO	250 hours
Recommended Propeller	20" - 24"