LOWENTALHYBRID

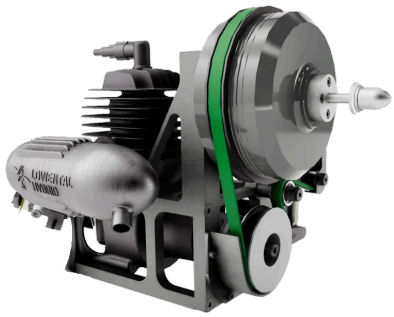
LH-03 The World's First Parallel Hybrid Propulsion for UAVs

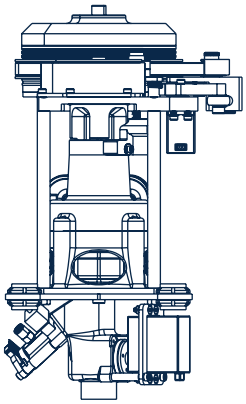
Lowental Hybrid introduces LH-03, a next-generation propulsion system engineered with our proprietary Native Parallel Hybrid™ architecture from day one. Designed for tactical UAVs and loitering munitions in the 50-80kg / 110-176lb MTOW class, it combines the stealth and power of electric flight with the endurance of fuel in one compact, mission-ready system.

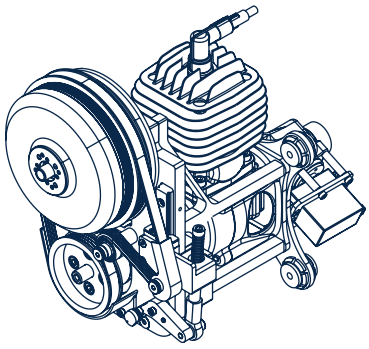
Key Capabilities:

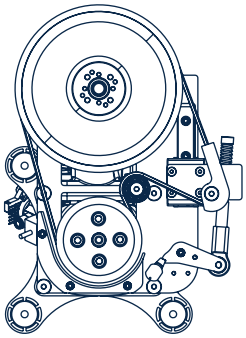
- **Fully parallel hybrid: motor/starter/generator + ICE**
- **High power-to-weight performance: Optimized for tactical operations.**
- **10-16 hrs endurance: up to 5× vs. fully electric UAVs***
- **20-30 min silent electric flight***
- **400W in-flight charging for avionics and sensors**
- **Built-in dual power redundancy for mission assurance**

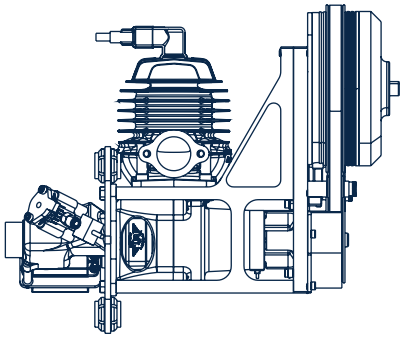
*Typical 50-80 kg MTOW fixed-wing platform.











LH-03 Operational Specification	
Usage	Hybrid propulsion system for fixed-wing/VTOL
Typical MTOW	50-80 kg 110-176 lb
UAS Group (US DoD)	Group 3
Max Electric Output Power	7,355 W 9.86 HP
Nominal Electric Power Output (Avionics/Charging)	400 W
Max Gasoline Output Power	3,400 W 4.55 HP
Engine Type	Air-cooled, 2-stroke single cylinder
Starting Method	Automatic
Fuel Type	Pre Mixed Gasoline + 4% Two Stroke Oil
Fuel Delivery	EFI (Electronic Fuel Injection)
Average Nominal Specific Fuel Consumption Rate	Gasoline - 0.56 - 0.6 kg/kW·h
Full System Weight	4.65 kg 10.25 lb
Operating Temperature	-20°C to +50°C -4°F to +122°F
Operating Altitude	0 - 4,870 m 0 - 16,000 ft
MTBO	250 hours
Recommended Propeller	24" - 28"

Parallel by Design. Engineered to Outfly.

info@lowental-hybrid.com
www.lowental-hybrid.com