

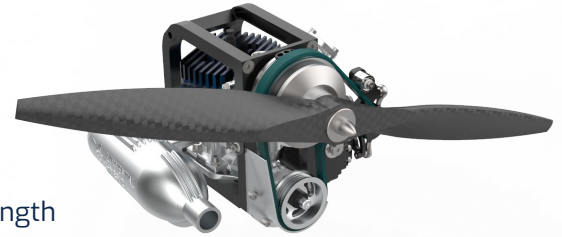
LH-01 The World's First Parallel Hybrid Propulsion for UAVs

Lowental Hybrid introduces **LH-01**, the next-generation propulsion system built on our proprietary **Native Parallel Hybrid™** architecture and purpose-built for tactical UAVs and loitering munitions. Unlike conventional electric or combustion systems — or retrofitted 'hybrids' — LH-01 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-01 combines endurance, flexibility, and assurance — all in one compact, mission-ready system.

Key Capabilities:

- **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



OPERATING ENVIRONMENT	
Atmospheric temperature	-20 ~ 50°C
Altitude	0 ~ 3,000m
Fuel type	Gasoline / Heavy fuel
Life time	Approx 500 h (overhauling every 150 h operation)
Recommended propeller	16"-20"

OPERATIONAL SPECIFICATIONS	
Usage	Hybrid drive system for fixed wing/VTOL
Cruising output power	400-800 W
Max gasoline output power	1400 W
Max electric output power	2000 W
Nominal charging power output	150 W
Fuel consumption @ 600 W	280 gr/h
Starting method	Auto
Fuel consumption rate	0.43-0.49 kg/kW·h
Engine type	air-cooled, 2-stroke, single cylinder engine
Fuel Delivery	LH EFI
Full system weight	2.2 kg

