

TAMML

Your payload. Our platform.

Heavy-fuel VTOL for resupply, logistics, airborne relay and customer mission equipment.

Empty aircraft mass	70 kg
Maximum payload	170 kg
Maximum takeoff mass	260 kg
Frame	Welded titanium
Rotor blades	Carbon; reinforced titanium leading edges
Camouflage covers	Replaceable, IR-reducing fabric · Woodland / Arid / Maritime / Arctic; high-visibility orange for HADR
Airframe dimensions · L × W × H	2.02 × 2.16 × 1.45 m · excluding main rotor sweep
Transport	Quick-release main rotor blades · road / sea / air deployment
Main rotor diameter	3.05 m
Main rotors	2 × counter-rotating, fixed pitch
Control propellers	3 × coaxial pairs; independent redundant power
Landing gear	Long-travel, shock-absorbing; electric wheel drives
Powerplant	UAVHE RW2-79C
Engine assembly	2 × UAVHE RW1-79
Engine type	Rotary (Wankel), forced-air cooled
Engine power	52 hp · 2 × 26 hp
Hybrid electric power	22 kW
Fuel	Jet A-1 / JP-8
Standard fuel capacity	25 L
Extended fuel capacity	105 L · 25 L + 4 × 20 L
Maximum light-aircraft climb	7.5 m/s
Payload bay	Modular cargo & equipment · open electrical / data interfaces
Payload electrical power	Up to 8 kW
Stabilised payload supplies	12 / 14.4 / 28 / 48 VDC
Payload power interfaces	PoE · USB PD · XT90 · SurLok

Autopilot	Embention Veronte · open autopilot integration architecture
Agricultural mission software	UgCS · ArduPilot Mission Planner · QGroundControl · TerraSpray · Hylío AgroSol · XAG One / Agri · SmartFarm · Veronte Ops · PDI
Mesh networking & C2	Silvus StreamCaster MIMO MANET · inter-aircraft relay · TAK / customer C2
GNSS / INS	Septentrio AsteRx RBI3 Pro · FUSE+ · dual-antenna heading · RTK
Navigation integrity	AIM+ anti-jamming / anti-spoofing · RAIM+
Precision landing	Radar altimeter · UAVLAS · weight on wheels
Satellite terminal options	Starshield / Starlink / Amazon Leo
Radio & awareness	VHF · Airband · ADS-B In · AIS
Sensors	Multispectral cameras · mmWave radar · weight on wheels
Camera coverage	360° × 360° · upper & lower hemispheres
Airborne separation	Automatic collision avoidance
Local control	Onboard console & terminal display
Voice control	Conventional VHF radio
Ground movement	Self-propelled; turn on the spot
Ground taxi range	Up to 50 km
Ground autonomy	Onboard edge processing · obstacle avoidance · traffic yielding
Ground service	Autoloaders · refuellers · unloading stations
Service interval	200 hours
MTBO	1,000 hours
Operating temperature	-40°C to +50°C

Total payload includes the complete removable module, cargo and mounting equipment. Fuel and payload share the 260 kg takeoff limit. Electrical pinouts, mounting and centre-of-gravity limits are defined in the installation package.

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