

LONG – RANGE, HEAVY - LIFT UVH-500 UAV

delivers up to 180 kg
with a range up to 950 km

Based on the piloted helicopter

TECHNICAL CHALLENGES

PRECISION LANDING:

- fully automatic flight mode
- delivery cargo to hard-to-reach areas
- night operations
- flights under severe weather conditions
- all terrain capable

OPERATION IN FULLY-DISCONNECTED MODE:

- remote Ground Controls network capability
- equipped with Beyond Line-of-Sight (BLOS) data link system for over-the-horizon operations

SAFETY:

- high efficiency flight control based on TECS
- back-up systems
- parachute allows to lower the overall crash risks



WIDE VARIETY MISSIONS

- Intercity Delivery
- Cargo
- Humanitarian
- Disaster Relief

HIGH-PRECISION, HEAVY EQUIPMENT:

Lidar, SAR, Electro-Optical Systems, Spraying
Equipment For Precision Farming

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PERFORMANCE

PARAMETER	DATA
Maximum cruising speed	160 km/h
VNE	209 km/h
MTOW	500 kg
Max. Payload (including fuel)	160 kg
Rate of Climb	5 m/s
Max. Range (cruising speed 120 km/h)	840 km
Max. Operating Altitude	5,000 m
Flight time (max.) Payload - 20 kg	7 h
Flight time (max.) Payload - 120 kg	2 h

PHYSICAL SPECIFICATIONS

PARAMETER	DATA
Main rotor diameter	6,280 mm
Airframe lenght	7,050 mm
Height	2,350 mm
Wheelbase	1,500 mm
Empty weight	340 kg
Engine type	Rotax 914 UL
Engine capacity	115 HP
Fuel tank	180 liter / 135 kg
Horizontal flight fuel consumption / h	25 liter / 18.6 kg
Max. wind speed during takeoff or landing	14 m/s
Onboard power supply	12V/24V
Altimeter	Radio
Transponder with ADS-B	S
TBI (inspections, maintenance)	100 h
Overhaul	1,200 h
Hovering IGE (ISA)	3,500 m
Hovering OGE (ISA)	2,500 m

