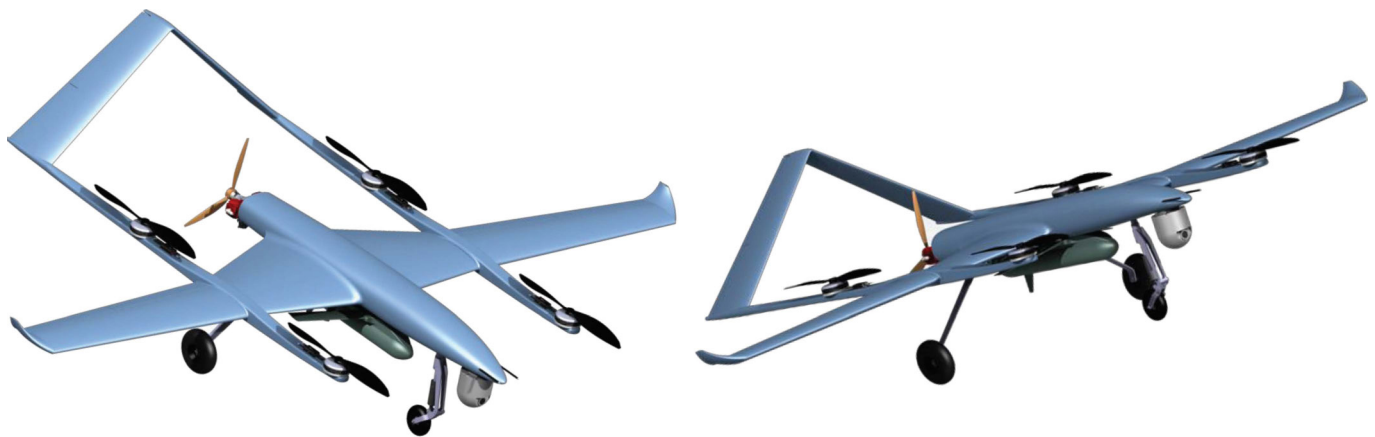


ALECS VTOL

Advanced light electric composite system vertical take-off and landing UAV



KEY FEATURES:

- Hybrid Version (recharging battery in the air)
- Starter - Generator Motor up to 3kW
- Modern Electronic Technology
- Redundancy system: 2 x Autopilots
- Opto-electronics and video transmission

KEY FEATURES MISSION OF AIRCRAFT

- Offensive UAV
- Suicide drone
- Observation
- Target positioning and irradiation
- Artillery support for more accurate shooting
- Link for data transmission over long distances

ADVANTAGES:

- Takeoff and landing vertically from any terrain
- Hovering like a helicopter
- Lower power consumption compared to a helicopter
- Significantly higher flight speed compared to a helicopter
- Divisional aircraft without the need for logistics (airport runway, launcher, booster)
- Easy and quick assembly and disassembly

GENERAL CHARACTERISTICS:

• Payload	25 kg
• Gross Weight	87 kg
• Fifth Engine	Piston Engine Twin Spark
• Engine Power	14.5 kW
• Minimal speed	70 km/h
• Cruise speed	120 km/h
• Maximum speed	200 km/h
• Lift to drag ratio	13
• Maximal vertical speed in FW mode	7 m/s
• Maximal vertical speed in MC mode	4 m/s
• Wing area	2.2 m ²
• Wingspan	4.6 m
• Aspect Ratio	9.62
• DataLink range	150 km

ENVIRONMENTAL

• Maximum temperature	60°C
• Minimum temperature	-30°C
• Maximum crosswinds	50 km/h

