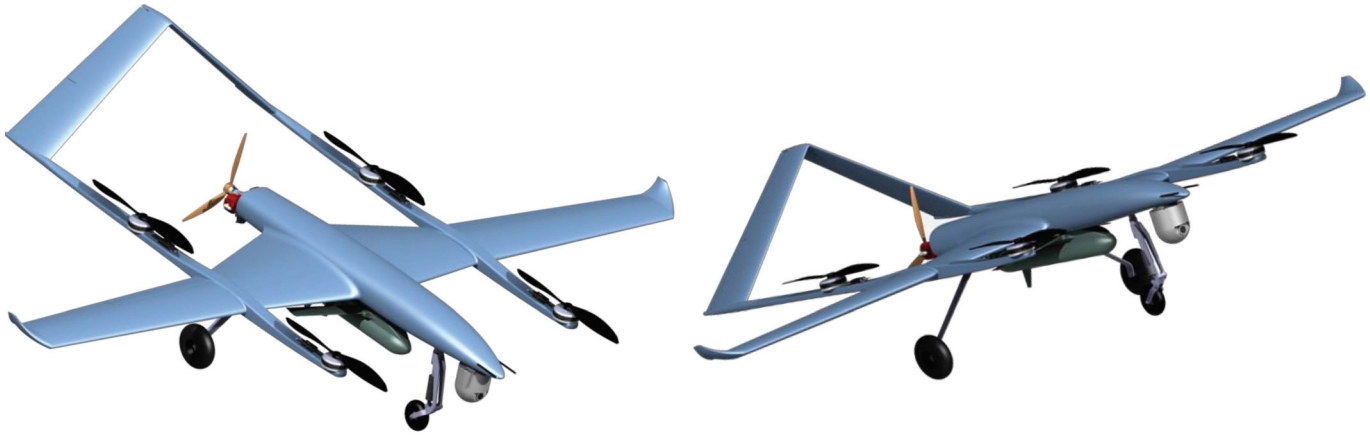
ALECS VTOL

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