



UAV engine unit

The UAV engine unit is a trouble-proof solution ready for any mission in a wide geographic range under various weather conditions.

500 W onboard electric generator

Remote start with a single button

Automatic emergency engine start feature

Anti-icing feature

Upgraded muffler to reduce the acoustic signature

4-stroke internal combustion engine 100 cc



System

features and technologies

The UAV engine unit was created to operate in harsh environments, be trouble-free and reliable aggregate. It is a fully integrated comprehensive solution. All systems come as one block for easy installation and maintenance.



500 W onboard generator

Powers up all-electric equipment of your UAV, and allows being flexible in terms of various payloads.



Remote start with a push of a button

You can start the UAV engine unit remotely from the ground control station with a single button.



Emergency engine start feature

The engine restarts automatically during the flight in case of a failure.



Upgraded muffler

Specially designed to reduce the acoustic signature of a UAV.



EMI shielded electronic ignition system with RPM sensor

For safe and secure operation.



Charge batteries during the flight

The onboard generator automatically recharges the batteries of the UAV.



Multiple sensors

The system is equipped with various sensors: fuel level, engine and air temperature, RPM, and many more.



Easy to use and maintain

The engine may be fueled by a mixture of gasoline and oil even in the field.



Able of working at a high altitude

Up to 5700 m.



Capable of operating in harsh temperature conditions

From -20 °C to +50 °C.

Technical

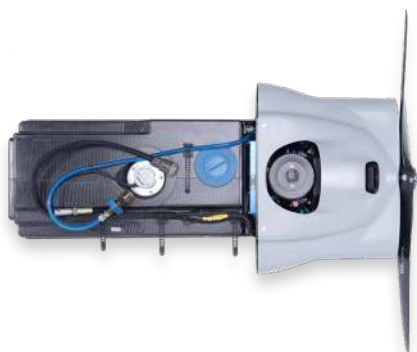
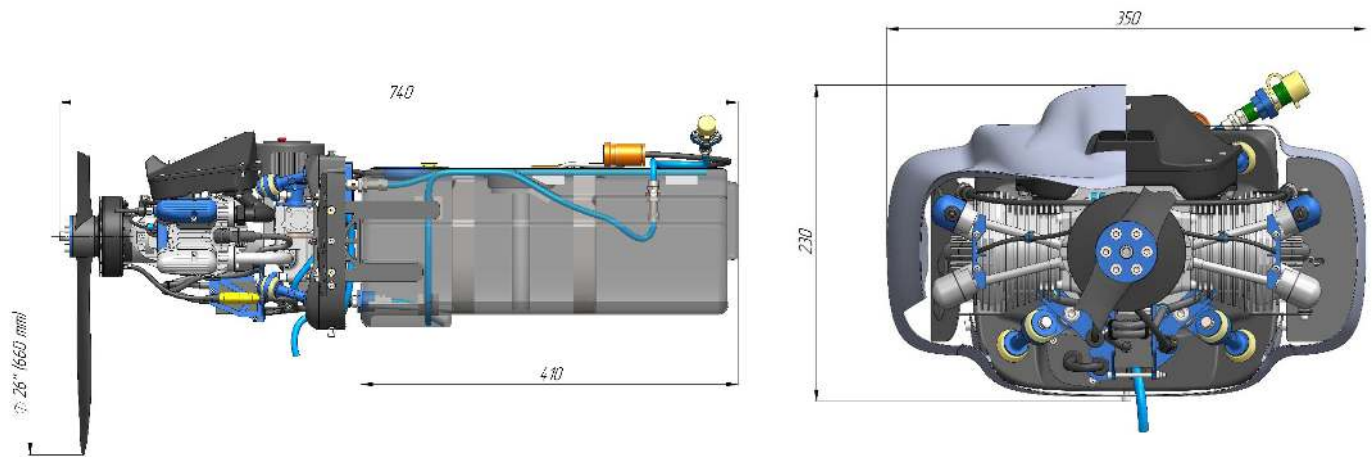
details

Engine unit specifications:

Maximum working altitude.....	5700 m
Revolutions per minute range.....	1500-6300 rpm
Engine operation temperature.....	90-140 °C
Fuel tank capacity.....	11 l
Power.....	7 hp
Starter type.....	electric
Onboard power supply (nominal voltage).....	24 VDC
Onboard battery.....	6S LiPo
Battery capacity.....	5400 mAh
Output electrical power.....	500 W
Overcurrent protection.....	+
Displacement.....	6.1 cu in (100 cc)
Brushless motor alternator.....	Yes
Pixhawk compatible.....	Yes
Oil type & content.....	20 gas/1 oil ratio
Fuel type.....	95 Octane (RON)

Dimensions and weight:

Height.....	230 mm
Width.....	350 mm
Length.....	740 mm
Propeller.....	26x12"
Empty weight.....	7.4 kg



Want to know more?



■ S m a r t s o l u t i o n s c o m p a n y