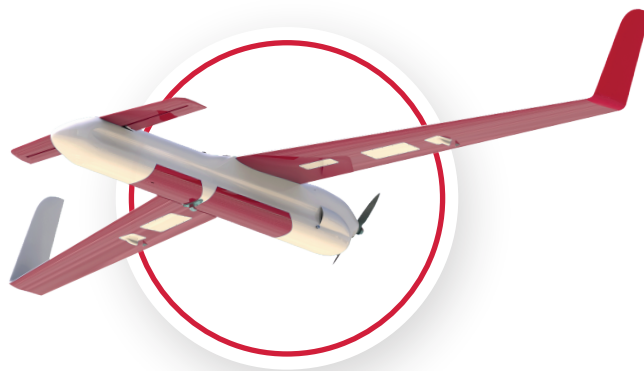


D-20



DESCRIPTION

The unmanned aircraft system D-20 with an internal combustion engine is designed to perform work on remote, extended facilities and objects having large-area. During 14 hours of flight the D-20 is able to cover more than 1000 km. The unmanned aerial vehicle with a full fuel reserve can carry a payload with weight up to 5 kg at a course flight speed of 90 km/h. During one flight the D-20 is capable to make photos of areas of up to 200 square kilometers. As a payload can be used high-resolution aerial cameras, video and thermal imaging surveying systems, multi-spectral cameras, magnetic intrusion equipment and boxes for delivery of cargo.

ADVANTAGES

The D-20 is distinguished by high efficiency: the long distance of the flight makes it unexpensive for making photos of extended objects and monitoring missions. The high autonomy of the engine operation has a positive impact on the volume of the received data.

APPLICATION

- Aerial photography operation.
- Photo and video monitoring.
- Thermal imaging and multispectral exposure.
- Aerial laser scanning.
- Delivery of medicines, samples, rescue aids and high-value commodities to remote facilities.

Features	Value
Maximum takeoff weight, at least	up to 29 kg
Wingspan	4 000 mm
Length	2 000 mm
Payload weight	up to 5 kg
Maximum flight speed	160 km/h
Flight course speed	80-90 km/h
Maximum flight duration with payload of 1,5 kg, at least	14 h
Maximum flight duration with payload of 3-5 kg, at least	8-10 h
Maximum flight length	1 000 km
Maximum flight altitude with payload of 3 kg	4 000 m
Wind limit speed, no more	15 m/s
Ambient temperature range	- 30...+ 40°C

