



**UVR**

United Vehicle Robotics

# SAKAVIK G

Unmanned Aerial System for Industrial  
and Emergency Rescue Applications

<https://uvr.su>

## About Sakavik G

SAKAVIK G is an unmanned VTOL aerial system with gasoline engine. It is a fully autonomous UAS of high productivity with maximum payload of up to 200 kg and maximum flight distance of up to 422 km. Empowered by low-level and high-level autopilots Sakavik G is able to fly without GPS, to avoid obstacles and to detect safe zone for landing.

Sakavik G was designed for those industrial and emergency rescue applications where both parameters of payload weight and flight endurance need to be high enough to fulfil challenging missions across industries.

Increased productivity of Sakavik G makes it economically reasonable to apply this UAS for transportation and emergency services as well as for multiple tasks of forestry and agriculture.

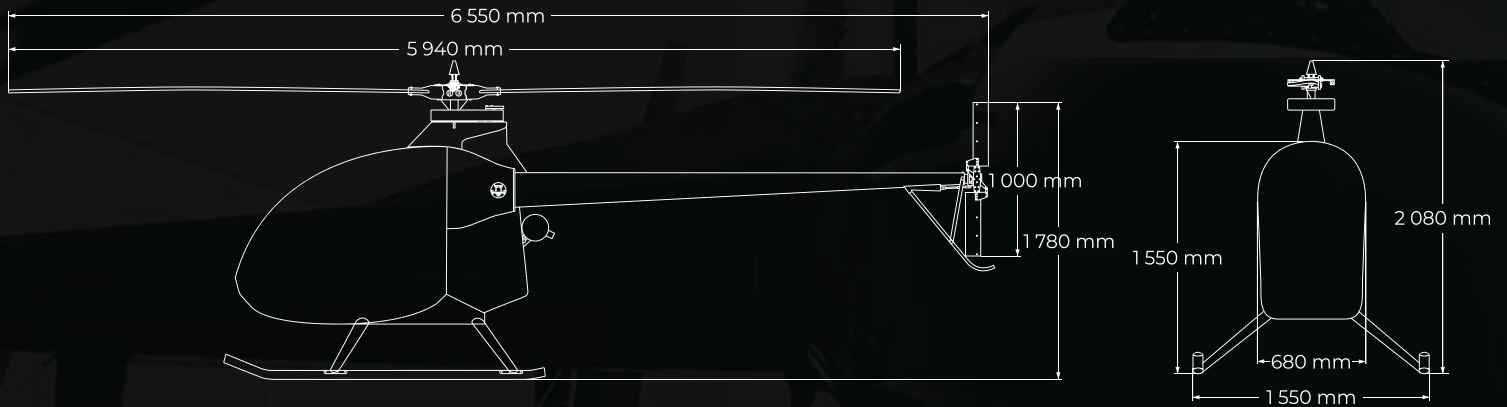
## Fields of application

What makes SAKAVIK G stand out from other unmanned aerial systems is its multifunctionality.

Heavy-lift capacity of the UAS and its lengthy endurance with the maximum payload makes SAKAVIK G a perfect solution for multiple industrial tasks:

- ◆ Logistics (transportations of up to 200 kg);
- ◆ Precision Agriculture (irrigation management, cropdusting, etc.);
- ◆ Forestry monitoring (pest control, fire detection, etc.);
- ◆ Security protection (site and life security);
- ◆ Emergency rescue operations (fire detection, search for missing people, natural disasters monitoring, transportation of blood, organs, injured and patients).

# Technical specifications





### Weight characteristics

- Load Capacity	up to 200 kg
- Empty Helicopter Weight	164 kg
- Maximum Take-Off Weight	364 kg
- Maximum Fuel Capacity	76 L

### Aircraft Features

- Autonomous Flight
- Wireless Flight Control
- Modular Platform
- Flight Without GPS\*
- Safe Landing Zone Detection\*
- Obstacle clearance\*

### Dimensions

- Overall Fuselage Width	1 550 mm
- Overall Fuselage Length	6 550 mm
- Overall Height	2 080 mm
- Rotor Diameter	5 940 mm

### Flight Performance

- Max Speed	160 km/h
- Cruising Speed	128 km/h
- Maximal Total Range	422 km
- Maximum Flight Time	3,3 h

## Additional Options

- ◆ High-level autopilot (Beta version): flight without GPS, obstacle clearance, safe landing zone detection;
- ◆ Precision landing system (PLS);
- ◆ Satellite transmitter;
- ◆ GCS based on a van body (KUNG);
- ◆ GCS based on a minibus (up to 3 days of autonomy);
- ◆ Crop dusting equipment.

# Notes



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## Contacts

info@uvr.su

+375 (44) 763-77-33



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