

UNMANNED AERIAL SYSTEM

# SAKAVIK

FOR INDUSTRIAL  
AND EMERGENCY  
RESCUE APPLICATIONS





# SAKAVIK

SAKAVIK 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 480 KM.

EMPOWERED BY LOW-LEVEL AND HIGH-LEVEL AUTOPILOTS SAKAVIK IS ABLE TO FLY WITHOUT GPS, TO AVOID OBSTACLES AND TO DETECT SAFE ZONE FOR LANDING.

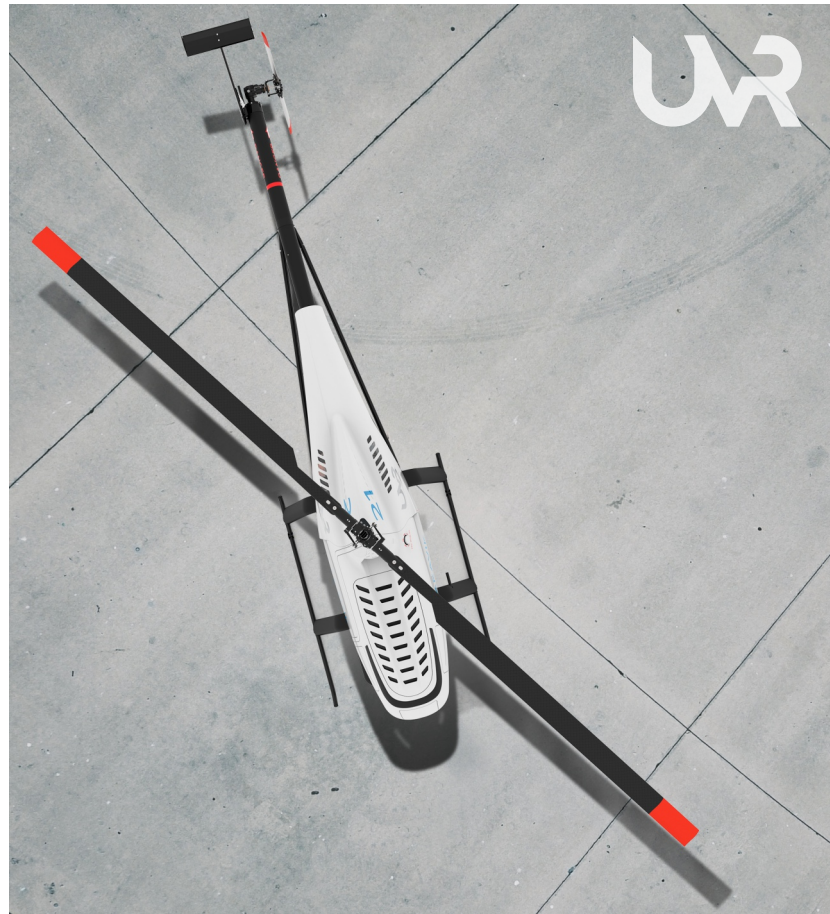
FOR  
INDUSTRIAL  
NEEDS

FOR  
EMERGENCY  
SERVICES

FOR  
TRANSPORTATION  
WORKS

SAKAVIK 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 MAKES IT ECONOMICALLY REASONABLE TO APPLY THIS UAS FOR TRANSPORTATION AND EMERGENCY SERVICES AS WELL AS FOR MULTIPLE TASKS OF FORESTRY AND AGRICULTURE.





United Vehicle Robotics

## APPLICATION FIELDS

WHAT MAKES SAKAVIK 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 A PERFECT SOLUTION FOR MULTIPLE INDUSTRIAL TASKS:

- LOGISTICS (TRANSPORTATIONS OF UP TO 200 KG);
- PRECISION AGRICULTURE (IRRIGATION MANAGEMENT, CROP DUSTING, ETC);
- FORESTRY MONITORING (PEST CONTROL, FIRE DETECTION, ETC);
- SECURITY PROTECTION (SITE AND LIFE SECURITY);
- EMERGENCY AND RESCUE OPERATIONS (FIRE DETECTION, SEARCH FOR LOST PEOPLE, NATURAL DISASTERS MONITORING, TRANSPORTATION OF BLOOD, ORGANS, INJURED PERSONS AND PATIENTS).



## TECHNICAL SPECIFICATIONS

### WEIGHT CHARACTERISTICS

- LOAD CAPACITY	UP TO 200 KG
- EMPTY HELICOPTER WEIGHT	300 KG
- MAXIMUM TAKE-OFF WEIGHT	500 KG
- FUEL TANK CAPACITY	60 L

### AIRCRAFT FEATURES

- AUTONOMOUS FLIGHT
- WIRELESS FLIGHT CONTROL
- MODULAR PLATFORM
- FLIGHT WITHOUT GPS\*
- SAFE LANDING ZONE DETECTION\*
- OBSTACLE CLEARANCE\*

### DIMENSIONS

- OVERALL FUSELAGE WIDTH	1 510 MM
- OVERALL FUSELAGE LENGTH	7 280 MM
- OVERALL HEIGHT	2 380 MM
- ROTOR DIAMETER	6 280 MM

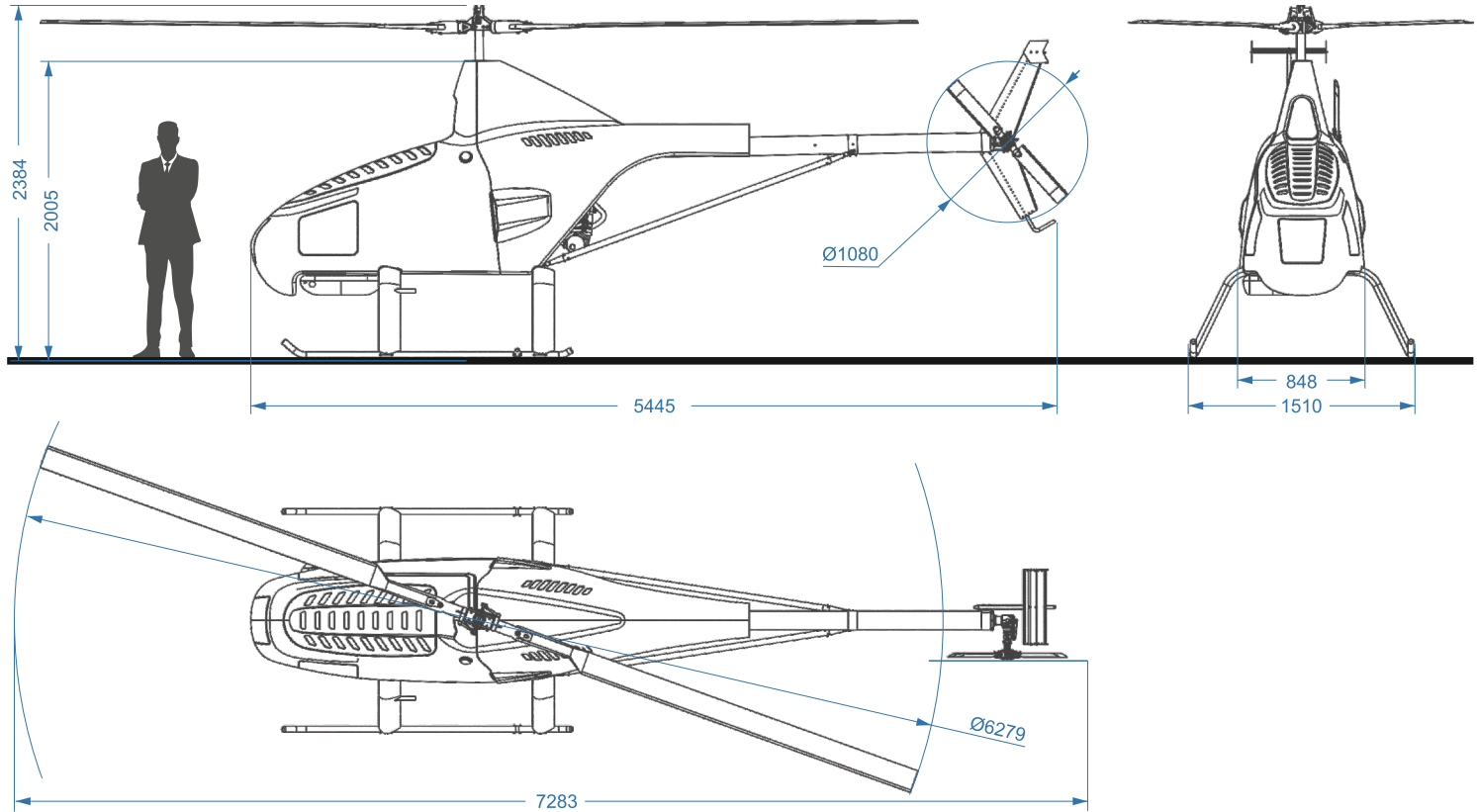
### FLIGHT PERFORMANCE

- MAX SPEED	185 KM/H
- CRUISE SPEED	120 KM/H
- MAXIMAL TOTAL RANGE	480 KM
- MAXIMUM FLIGHT TIME	8 H

\*BETA VERSION OF HIGH-LEVEL AUTOPILOT USING COMPUTER VISION



# VTOL SAKAVIK DIMENSIONS



# FOR NOTES



The logo consists of the letters 'UVR' in a bold, white, sans-serif font, set against a dark grey rectangular background. The 'U' and 'V' are connected at the top, and the 'R' is positioned to the right of the 'V'.

# UVR

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