



United Vehicle Robotics

COMBO

Unmanned aircraft system,
converted Ka-26 helicopter

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Unmanned aircraft system **COMBO**

Take-offs, landings, flights are carried out fully automatically. COMBO is equipped with computer vision system. This allows the UAS to make corrections to the route in case of obstacles on its way. In order to increase efficiency, the software complex includes swarm flight algorithms. Also, COMBO has the ability to coordinate the route together with ground-based autonomous transport units.

“Flying platform”

COMBO is a multi-functional platform “Flying Chassis” based on a Ka-26 coaxial helicopter. Various removable modules are docked to the helicopter, depending on the use cases. Conversion of a helicopter from one set to another can be carried out in the field by two or three people.

Multifunctionality

The unmanned aircraft system COMBO is designed to perform the following tasks:

- cargo transportation;
- search and rescue operations with the possibility of evacuation of the wounded (up to 6 persons);
- flying crane service;
- the use of a wide range of equipment on external mount.

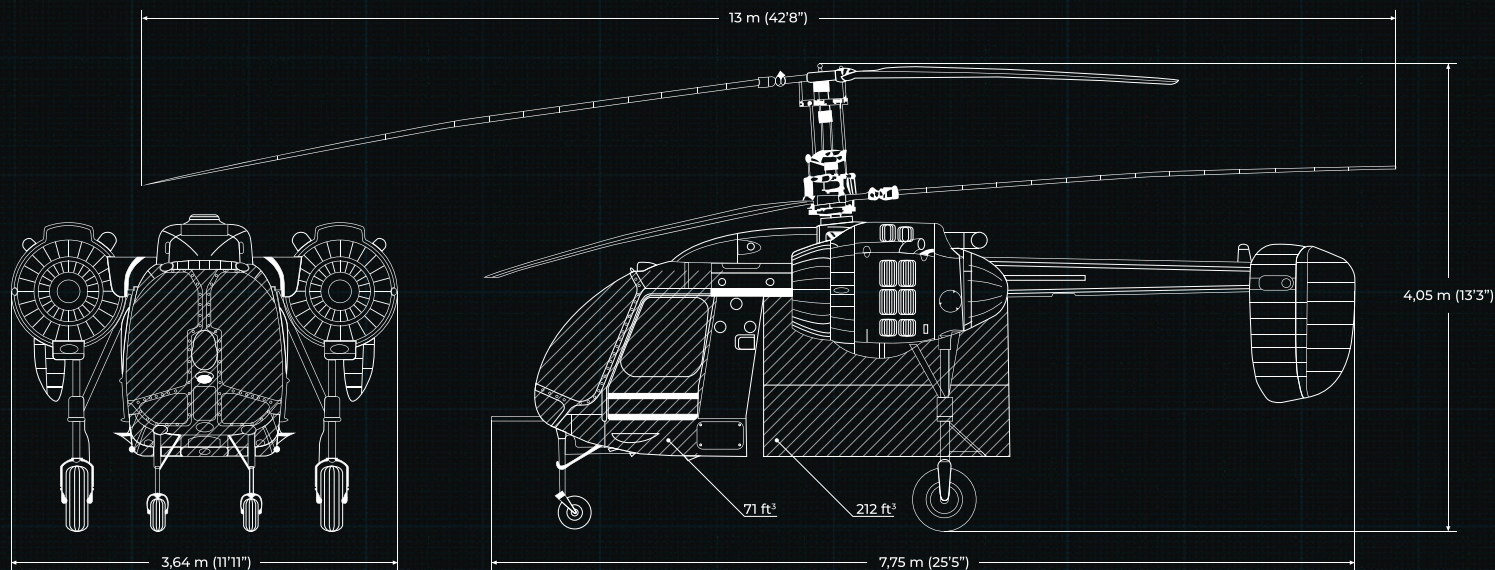


Development

Model: D4PMD452
 Status: Online
 Pos: Normal
 Rotation Status: 15

The COMBO project has become a flying laboratory for the development and design of our own control systems, testing algorithms and integrated solutions. The obtained data allowed us to start creation of new generation vehicles as well as an intelligent control system for a variety of UASes.

Technical specifications



Weight

Load Capacity	up to 1150 kg (2535 lb)
Empty Helicopter Weight	2 100 kg (4630 lb)
Max. Takeoff Weight (MTOW)	3 250 kg (7165 lb)

Flight Performance

Max. Flight Time (without load)	8 hours
Max. Airspeed	160 kmph (100 mph)
Cruise Speed	130 kmph (80 mph)
Service Ceiling	3 500 m (11483 ft)

Dimensions

Width	3,64 m (11'11")
Length	7,75 m (25'5")
Height	4,05 m (13'3")
Rotor Diameter	13 m (42'8")

Design Features

- Autonomous Flight
- Remote Flight Control
- Modular Platform

Functionality

- Flight Without GPS*
- Obstacle Detection and Avoidance*
- Safe Landing Zone Detection*
- Precision landing system
- Customizable software

Engine and Fuel

Engine Type	2 x PD M-14V-26
Engine Power	2 x 325 HP (2 x 239 kW)

*Beta version of high-level autopilot using computer vision



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