

# VELOS V3

Unmanned Helicopter System

VELOS ROTORS



## Overview

Velos Rotors proudly presents the Velos V3, the latest evolution in our line of UAVs. The Velos V3 is a Group II unmanned helicopter (25 kg / 55 lbs) designed with a traditional rotorcraft configuration, offering unparalleled versatility and reliability for a wide range of applications. It features a three-bladed main rotor and a three-bladed tail rotor, supported by a durable carbon fiber fuselage with both forward and aft canopy covers. Powered by 4 high-voltage lithium polymer battery packs (48VDC), the Velos V3 utilizes a

patented twin transmission design that sets a new industry standard for redundancy, reliability, and safety.

## Key Features

### Fully Redundant Twin Transmission Design

Unique patented design tolerates complete failure of critical components (motor, ESC, belt, gears, bearings, main battery, servo) allowing safe landing. Components operate at 50% capacity for exceptional reliability.

### Customization and Compatibility

Open architecture (CubePilot OrangeCube/Auterion SkyNode) for quick integration of hardware/software. Supports various data links (LTE, 5G, satellite) for extended range and BVLOS operations.

### Extensive Payload Capabilities

Simple payload rail system (55cm, M4 threaded points) for seamless integration of payloads up to 10kg, from sensors to critical cargo.

## Payload Over the Rotor (POR)

Unique capability for installing payloads, antennas, sensors, or parachutes above the main rotor. Located on CG axis, ensuring no impact on flight parameters. Ideal for 360° views and inspections.

# Physical Specifications

PARAMETER	VALUE
Rotor diameter RD	198cm / 76.5in
Length L	172cm / 67.7in
Height H	74cm / 28.75in *depends on POR payload
Width W	62cm / 24.4in
Fuselage Width	24cm / 9in
Empty Weight	9kg / 20lbs
Battery Weight	5-15kg / 11-33lbs
Payload Weight	0.5-10kg / 2-22lbs

# Performance Specifications

PAYLOAD WEIGHT	MAX FLIGHT TIME
1kg	90 min
4kg	60 min
5kg	54 min
6kg	50 min
10kg	29 min

# Reliability & Trust

With thousands of flight hours accumulated across the globe, the Velos platform has matured into a trusted and reliable solution within the commercial industry. Our ability to deliver high-quality, reliable, dual-use unmanned helicopter systems to the market is further supported by a strong foundation of exclusive commercial sales and long-term vendor relationships, ensuring a stable and secure supply chain.

# Contact Us

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For custom integrations or more information, please contact Velos Rotors:

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**Manufacturer:** VELOS ROTORS

**Data Sheet Generated:** 2025 | Product specifications and features are subject to change by the manufacturer.