Aveox
Unmanned Systems GmbH

DRAGONFLY DF M35
DRAGONFLY DF T50

RPAS Helicopters

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The unique design features of the DRAGONFLY DF M35 / DF T50 provide a superior payload capacity, prolonged endurance, stable flight patterns and a high degree of safety features.

Technical Data

– Flettner Double Rotor System
– Drive: flat twin engine, 14.5kW, with double ignition system, generator and on-board-starter system
– Alternative drives: by jet engine 11kW
– Rotor diameter: 2 x 2.8 m
– Dimensions: 2.60 x 0.65 m x 0.92 m
– Empty weight: ca. 40 kg
– MTOW: 75 kg (90 kg)
– Payload: 35 kg (50 kg)
– Max. speed: 100 km/h
– Tank capacity: 6 ltr. (20 ltr.) + optional tank with 20 ltr.
– Max. time of flight: up to 4 h
– Generator power: 14 V / 400 W (alternativ 28 V / 900 W)
(values in brackets relate to the turbine version DF T50)

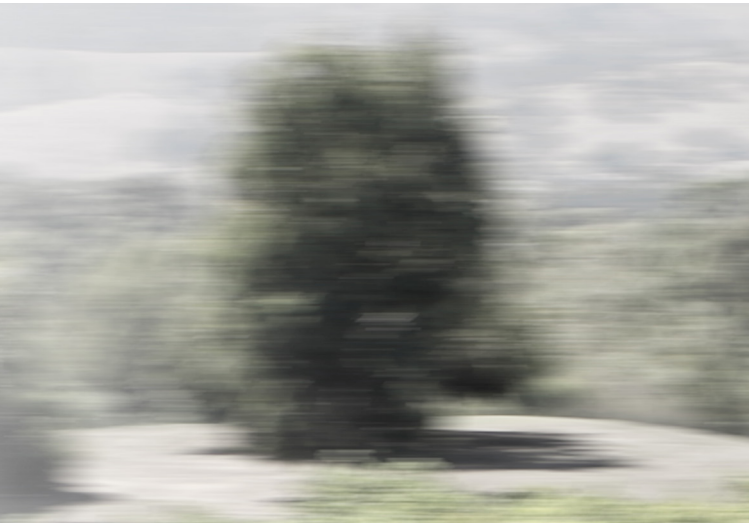
UAS go Above and Beyond

Where can RPAS go? Nearly everywhere, as it turns out. Many industries are already feeling the positive impacts of RPAS technology, as they use it in a variety of aerial tasks. And these are just some of the ways these industries are putting RPAS to work for them. Let it inspire your own ideas as you envision where RPAS can take you.

Inspection and Monitoring

Inspection and monitoring are a requirement when working in many infrastructure, building and utility fields. A rotary RPAS in particular is ideal for these jobs because of its wide range of movement. It can get accurate feedback but still maintain a safe distance, especially in more hazardous areas, like high voltage power lines or oil and gas pipelines.

– Oil and gas pipeline inspection
– Power line inspection
– Wind turbine inspection
– Photovoltaic system inspection
– Roadwork, ramp, bridge and canal inspection
– Railroad infrastructure inspection
– Safety assessment
– Flooding change detection
– Erosion monitoring



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Geomapping

Using a RPAS for mapping is a straightforward process. After establishing some basic measurement parameters (i.e. altitude, airspeed, image overlap), and setting a flight plan, collecting the data is performed automatically. The end result is orthophotos and 3D models that can be used in a variety of industries, and as part of a variety of tasks.

– Asset management
– Volume calculation (stock piles)
– Research (geology, archaeology, etc.)
– Roadwork, ramps, bridges and canals
– Safety assessment
– Flooding change detection
– Surveying
– Waste Management

Aerial Imaging and Filming

RPAS can capture amazing imagery. The cameras are mounted to compensate for the pitch and roll of in-flight movement, and the result is high quality, blur free video and photography. RPAS are compatible with some of the most advanced camera systems in the world, and they‘re more flexible and less expensive than using a crane or manned Helicopter. Video and images from RPAS can be used in everything from movies and television to disaster management and safety assessment.

– Film
– Television and commercials
– Post disaster assessment
– Safety assessment
– Geological research
– Archaeological research
– Commercial photography