

HORNET/STRŠLJEN/X-01 The power of multi-mission for multi-domain operations

The Hornet/Stršljen/X-01 is the first Serbian autonomous helicopter, designed by EDePro for both civilian uses and intelligent military operations. Its multi-mission performance relying on the implementation of modular design contains the latest unmanned aircraft system (UAS) solutions for observation, monitoring, surveillance, reconnaissance, as well as ground attack. In addition, field tests have confirmed its endurance and automatic takeoff and landing features.

Tactical Use

Designed as a multi-mission solution, the Hornet is used for numerous purposes, such as providing battlefield intelligence to protect ground troops, reconnaissance missions, carrying out attacks, target acquisition and electronic warfare. But, it can also serve for surveillance of specific zones, topographic and logistic missions, data collection and radiation detection.

The Modular Design

The airframe of this rotary-wing unmanned aerial vehicle (UAV) is composed of carbon composite materials, high-strength chromium-molybdenum steel and lightweight aluminium alloys. The main and tail rotor blades are made of fibre-reinforced composite materials, also of high strength. This advanced design sets an empty mass of 400 kg and a gross mass of 750 kg. Also, it allows carrying multiple payloads, including sensors, fuel and armaments. Its open architecture allows various customisations, depending on the customer's requirements.

The Electro-Optical/Infrared System

Thanks to its EO/IR system, the Hornet has proven reconnaissance and surveillance capabilities, enabling beyond-visual-line-of-sight (BVLOS) navigation. It uses high-resolution mid-wave infrared sensors, and it can be additionally equipped with a laser designator.



The Engine's Performance

The Hornet is powered by a turboshaft engine with a centrifugal compressor and turbine. The engine produces 180 kW of power, allowing a maximum flight speed of 180 km/h. Its small dimensions, small mass and cutting-edge technology result in a longer flight time, a larger payload capacity and lowered acoustic signature.



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MAIN TACTICAL AND TECHNICAL PERFORMANCES

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