



ALAS XX

A multipurpose surface-to-surface missile system

Knowing that artillery superiority today relies on precise, time-sensitive, intelligent and highly efficient ammunition, EDePro prides itself on developing the ALAS missile family that has all the characteristics of the 5th generation missile systems. As the family's first representative, the ALAS XX has the performance of the best multipurpose surface-to-surface systems.

Tactical Use

This missile system is intended for attacking, both static and moving ground targets, and it is field-tested. Further enhancements, which are currently in the design phase, will enable the ALAS XX to engage hardened targets, facilities, as well as tanks and other armoured vehicles.

The Warhead Type

The missile contains a tandem warhead capable of penetrating over 1,000 mm of RHA, which makes the missile system suitable for engaging hardened targets, facilities, as well as tanks and other armoured vehicles.

Interaction with Other Combat Units

The ALAS XX can receive target coordinates from a third party (other force, UAV, drone or any other unit detecting a target). This enables interaction with other combat units without the need for additional manoeuvres to find Line-Of-Sight targets.

The GNC Section

The GNC section's key function is providing stabilisation as well as guidance and control of the ALAS missile in all flight phases via integrated INS or INS/GPS (depending on GPS signal quality). The homing head subsystem consists of a seeker, TV CCD or IR sensor with a gyro-stabilised frame and a computer.

Environmental and Operational Conditions

The prototype fully complies with the following MIL-STD-810F standard's test methods: 501.4 (High TEMP), 502.4 (Low TEMP), 503.4 (TEMP Shock), 507.4 (Humidity), 513.5 (Acceleration), 514.5 (Vibrations).

MAIN SPECIFICATIONS

- Ø Calibre: 175 mm
- ◆ Range: 25 km
- ⚖ Takeoff mass: 77 kg
- ↔ Length: 2720 mm



The Launcher Type

The ALAS XX, which is expected to become a part of the Serbian Army's armaments, is integrated with the M18 OGANJ modular self-propelled multiple rocket launcher (MRLS). Each vehicle can be equipped with 4 to 8 missile containers.



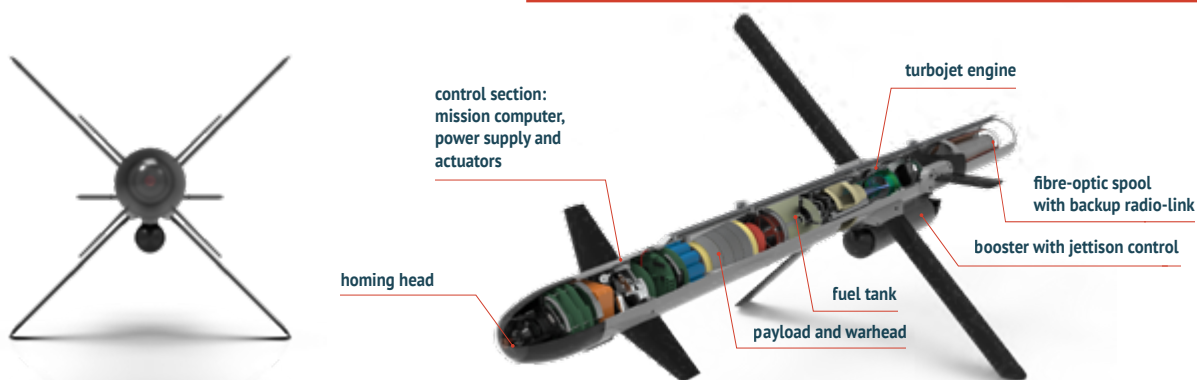


MAIN TACTICAL AND TECHNICAL PERFORMANCES

Technical Specification

	Data	Unit
Total body length	2720	mm
Calibre	175	mm
Wingspan	1638	mm
Takeoff mass	77	kg
Container's inner dimensions	400x472	mm
In-flight mass	62	kg
Sustainer type	turbojet engine	/
Turbojet trust on 90.000 rpm	>28	kg
Booster with jettison control (detachable)	a solid propellant RM	/
Cruising speed	120-150	m/s
Maximum flight altitude (above sea level)	2000	m
Cruising altitude (relative to the launching position)	150-600	m
Maximum effective range	25	km
Minimum effective range	3	km
Maximum manoeuvrability	4	g

MISSILE COMPONENTS



BENEFITS

- » tracking and lock-on range can be up to 7 km;
- » the midterm guidance based on pre-set trajectory points from GCS;
- » communication with (GCS) during the mission setup & flight;
- » the homing head signal has an absolute accuracy of 1 m;
- » the navigation relies on INS, GPS and on altimeter (based on availability);
- » mission abort can be manual (via GCS) or automatic (based on predefined criteria).

