



MLRS 400mm Jerina-1 (J1)

A modern surface-to-surface missile

When searching for combat superiority, modern armed forces look for next-generation technologies that are safer, more responsive and accurate, as well as giving remarkable performance. All these attributes describe Jerina-1, EDePro's world-class surface-to-surface missile system. Initially developed by our in-house engineering team, Jerina-1 meets the highest demands of modern warfare. The missile is a part of the "Šumadija" self-propelled multiple-launch system, designed for transporting and launching rockets with a range of 75 and 285 km.

Tactical Use

The system is intended for destroying enemy surface targets, such as military bases, airports, ports and port facilities, crucial transport hubs and intersections, manufacturing facilities, and other key land stationary objects at distances up to 285 km.

The Warhead Type

The front of the missile is fitted with a high-explosive fragmentation warhead, with a mass of 200 kg, along with a contact and proximity fuse. The system's scalability allows the integration of thermobaric and other warheads of the same mass.

The Guidance and Navigation System

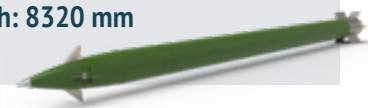
The missile uses a high-precision inertial navigation system (INS), consisting of an inertial measurement unit (IMU) and a navigational computer. Together with North Finder, this system provides accurate and reliable data for target acquisition. As for its navigation and orientation equipment, it is based on the GPS system.

Environmental & Operational Conditions

The prototype fully complies with the following MIL-STD-810F standards: 501.4 (High Temp), 502.4 (Low Temp), 503.4 (Temp Shock), 507.4 (Humidity), 513.5 (Acceleration) and 514.5 (Vibrations).

MAIN SPECIFICATIONS

- Ø Calibre: 400 mm
- ◇ Range: 285 km
- 📏 Takeoff mass: 1530 kg
- ↔ Length: 8320 mm



The Launcher Type - MLRS "Šumadija"

A rocket launches from a multi-barrel container-type launcher. The packaging of a certain number of containers filled with rockets (6 launch tubes) is placed on a transport launch vehicle of high manoeuvrability. The launch platform is a rotary type, and the system is designed so as to allow launching over the cabin at an azimuth angle of $\pm 30^\circ$.

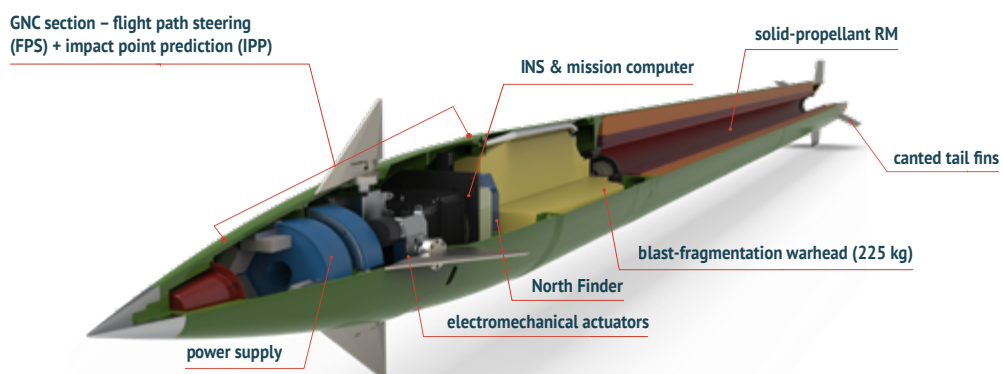




MAIN TACTICAL AND TECHNICAL PERFORMANCES

Technical Specification	Data	Unit
Total length	8320	mm
Calibre	400	mm
Takeoff mass	1530	kg
In-flight mass	620	kg
Wingspan	740	mm
Maximum range	285	km
Minimum range	100	km
Total impulse	206500	dNs
Rate of fire (1 missile)	12	min
Launch reliability	> 95	%
Flight reliability	> 95	%
Detonation mechanism	Impact/Proximity fuse	/
Dispersion (CEP)	~ 3	‰

MISSILE COMPONENTS



BENEFITS

- » HE fragmentation warhead with the possibility to integrate different types up to 200 kg.
- » solid-propellant RM built with in-house thermal insulation technology;
- » INS and North Finder capable of integrating with the GPS;
- » guidance based on flight path steering and impact point prediction;
- » launch vehicle capable of carrying up to 6 missiles;
- » 10 years of shelf life.

