



SUMADIJA



Modular Self-Propelled Long-Range Multiple Launch Weapon

SUMADIJA is a weapon intended against important enemy point and area targets, and against time critical targets (owing to the critical time response) such as ground-to-ground rocket systems, air defense systems, airports, heliports, concentration areas, military bases, training camps, logistics centers, harbors, concentrated troops, important military infrastructure facilities, command centers, communication centers etc.

Sumadija modular multiple fire support rocket system is configured with one container containing two 400 mm ballistic missiles with a range of 300 km and a 250 kg warhead (Jerina), and another container for the Vila 1 unmanned aerial vehicle – missile (a heavy loitering munition) with a range up to 300 km, with the possibility of loitering in the target area, equipped with a warhead of up to 450 kg.



Main technical characteristics of the MLRS

Caliber	400 mm
Range	300 km (400 mm caliber, rocket Jerina) 300 km (Vila 1)
No. of containers /launch modules	2
No. of barrels, rockets in one container	2 (rocket Jerina), a total of 4 rockets 2 (Vila 1), a total of 2
Operating temperature range	-30°C to +50°C
Field of action	In elevation: 0° to 60° In traverse: ±20°, Jerina
Laying the launcher in traverse and elevation	Automatic Semi-automatic Accuracy in laying as per the set angles 00-01
Drive	Electric motors
Angular velocity of laying	In elevation: 1°/s, max. In traverse: 2°/s, max.
Crew	Three servicemen in the vehicle cabin
Launcher loading	By way of the lifting device on the utility vehicle
Weapon stability during firing	Achieved by means of four trails for the system stability
Orientation and navigation	Autonomous, by means of INS GPS
Combat mission	By means of autonomous FCS Pre-planned combat mission
Slope correction	Automatic, by way of a special device, up to 5°
Launching device facilitates	Burst-fire Single-shot launching Launching from the vehicle cabin, or from a shelter at the distance of 25m
Crew personal armament	3 automatic rifles in 7.62 mm caliber
Time of preparation of the weapon for firing	120 s
Time of leaving the firing position	120 s
System weight	35000 kg

Vila 1 - Heavy loitering munition / cruise missile

VILA 1 is a sophisticated and complex ground to ground weapon system based on modular concept of unmanned aerial vehicle/cruising missile for action against the enemy at middle and long ranges in conditions of complex air defense. Modular concept enables the use of different types of guidance and various types of warheads according to target category. VILA 1 warhead is equipped with vAF-M17/vFI-17 fuzing system. Basic guiding principles are: programmed flight to target area based on GNSS/INS technology and radar altimeter, guidance based on optoelectronic system and two-way radio data link in target area, guidance based on optoelectronic system supported by artificial intelligence and autonomous target recognition. Missile is launched from a tube integrated on a vehicle chassis with 8x8 drive to support all types of terrain use. Launching tube can also be integrated on operating war ships with adequate characteristics. Missile is launched with solid fuel booster motor and turbo fan/turbo jet engine enables propulsion for cruise/march phase of the mission. The weapon has loitering capabilities.

Length:	5,5 m (without booster)
Wingspan:	2,7 m
Operating height:	50 m up to >7000 m
Cruise speed:	0.75 M
Warhead:	300-450 kg
Propulsion:	turbo fan /turbo jet engine
Start:	with help of booster motor from launching tube
Range:	≤300 km (+ Loitering function)
Guidance system:	Modular

