



# MLRS 107mm ER ROCKET

*Operational advantage with improved impact*

Another great solution that came out of EDePro's production facilities providing operational advantage on the battlefield with improved and powerful impact is 107mm, extended range unguided artillery rocket. Compatible with all multiple rocket launchers used for the original rocket, an upgraded variant brings significantly increased range of 11.5km and modern thermoplastic composite propellant made according to the original technology. Developed to meet the combat challenges of Special Forces units, light artillery and infantry, 107mm ER represents an efficient and accurate anti-personnel system for a variety of critical missions.

## MAIN SPECIFICATIONS

- Calibre: 107 mm
- Range: 11,5 km
- Takeoff mass: 17,6 kg
- Length: 840 mm



## Tactical Use

By neutralising the enemy force on the battlefield, infantry units in concentration zones, on the march, and in battle formations, military depots within the range area, and logistics infrastructure, the rocket acts as a potent anti-personnel weapon that supports ground troops.

## The Warhead Type

A high explosive fragmentation warhead is composed of three components: a steel implant, a shell body, and an explosive charge. Behind the fuse are detonation cups. The shell body is forged and made of steel, and its thickness is not uniform across the body, allowing for maximum fragmentary efficiency against the target.

## Solid Propellant Solution

The rocket propellant used in grain production is a modern thermoplastic composite propellant manufactured according to original technology. The propellant grain is not bonded to the walls of the combustion chamber, which enables easy and cost effective future overhaul of the rocket at the customer's premises.

## The Packaging

The rocket can be transported by all transportation means, packed in 2 rounds set in wooden case, along with fuse UTI M84P1, with a total weight of 49,5 kg.



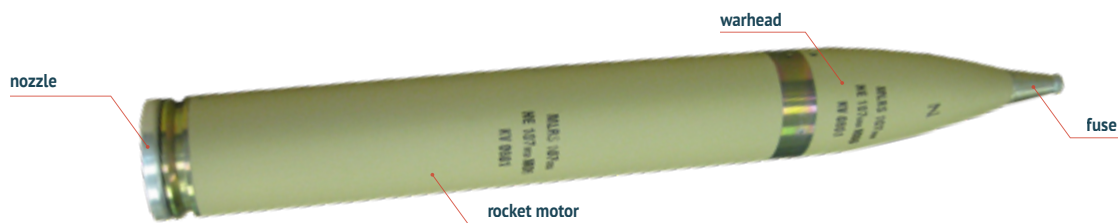


**MAIN TACTICAL AND TECHNICAL PERFORMANCES**

**Technical Specification**

Technical Specification	Standard 107	107mm-ER	Unit
Calibre	107	107	mm
Length	840	825	mm
Maximum range (Xe)	8.5	11.5	km
Temperature range	-40 ÷ +50	-32 ÷ +60	°C
Total mass	18.9	17.6	kg
Warhead's mass	7.6	7.6	kg
Fuse's mass	0.7	0.35	kg
Propellant's mass	3.5	4.3	kg
Burning time	0.7	1.3	s
Motor's total impulse	6 600	9 180	Ns
Max. velocity at Xe	372	576	m/s
Maximum Spin	22 000	26 000	m
Top of the trajectory at Xe	2 420	3 629	rpm
Flight time at Xe	45	54	s
CEP at max. range	≤1	≤1	%

**ROCKET COMPONENTS**



**BENEFITS**

- » multi launcher capabilities, with compatibility to all standard operating 107mm launchers;
- » easy and cost-effective overhaul at EDePro or customer's premises;
- » fragmentation warhead;
- » shell body design enables maximum fragmentary efficiency;
- » extended range.

