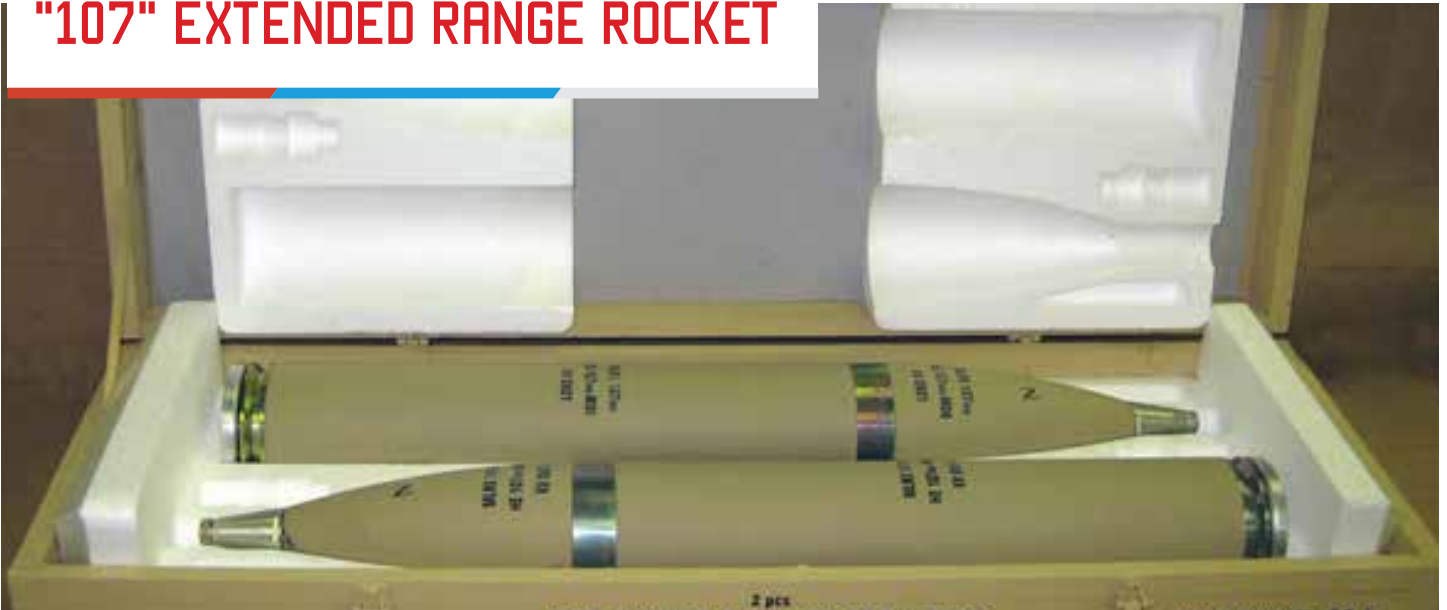


"107" EXTENDED RANGE ROCKET

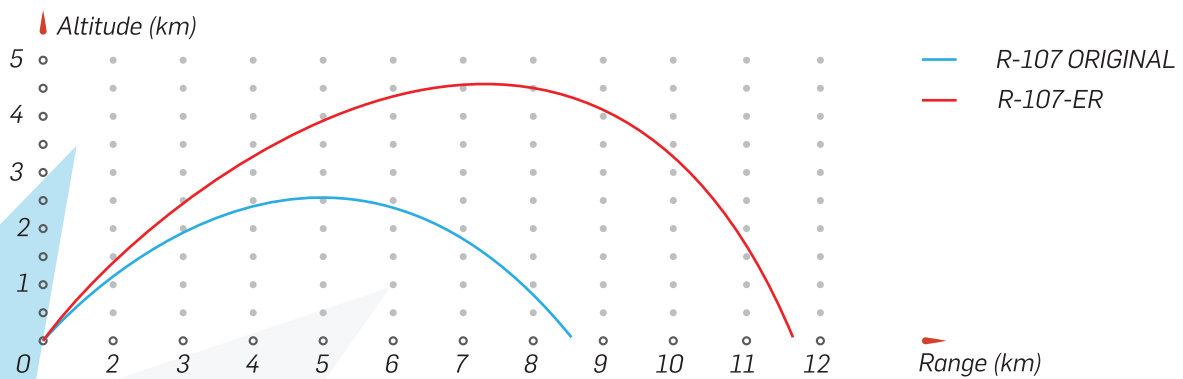


The "107" rocket is an anti-personnel weapon developed for light artillery, infantry and Special Forces units.

Rocket "107-ER" is fully compatible with the multiple rocket launcher systems which are used with the standard rocket.

The rocket propellant, used in grain production, is a modern thermoplastic composite propellant made in accordance with the 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 "107-ER" rocket is spin stabilized by six canted nozzles, and rotates with high angular velocity, ensuring great accuracy.



Comparison of the trajectories at maximal range of fire

TACTICAL AND TECHNICAL CHARACTERISTIC OF THE STANDARD "107" AND "107-ER" ROCKETS

Basic characteristics of the old rocket "107mm" and new extended range rocket "107-ER" at nominal (firing-table) conditions are given in following table.

TECHNICAL CHARACTERISTICS	"107" STANDARD	"107"EXT. RANGE	UNITS
Caliber	107	107	mm
Length	840	825	mm
Operation Temperature	-40 ~ +50	-32 ~ +60	°C
Total Mass	18.9	17.6	kg
Warhead Mass	7.6	7.6	kg
Fuse Mass	0.7	0.35	kg
Propellant Mass	3.5	4.3	kg
Burning Time	0.7	1.3	s
Total Motor Impulse	6600	9180	Ns
Max. Velocity at Xe.	372	576	m/s
Maximum Spin	22000	26000	rpm
Top of the Trajectory at X	2420	3620	m
Time of Flight at X	45	54	s
Maximum Range (Xe.)	8.5	11.5	km



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