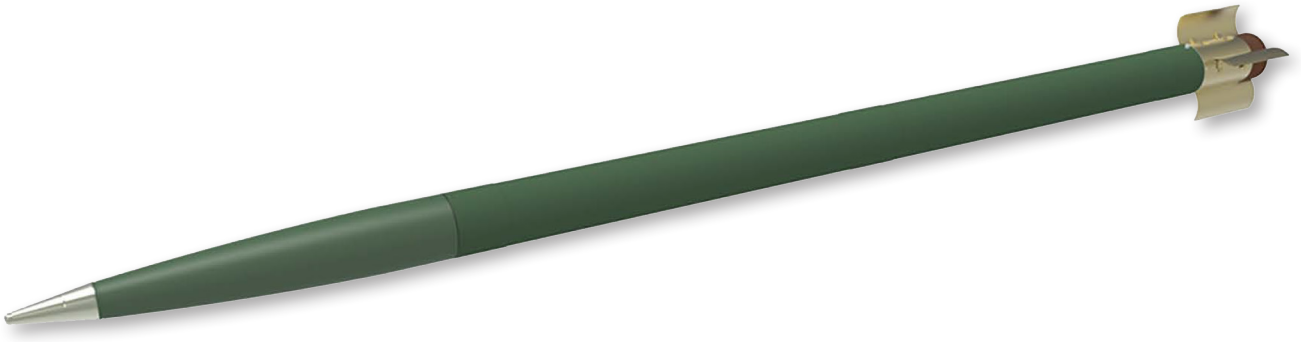
DEVELOPMENT



122 mm, G-2000/45 MLRS GRAD

Artillery rocket

Rocket G-2000/45 is aerodynamically improved system with range of 45 km, warhead is with new aerodynamic design. Its rocket motor has a completely new state of the art design. The rocket guide and contact cover are identical to the original rocket GRAD.

Rocket G-2000/45 is fully compatible with the mobile multi tube rocket launchers such as BM-21 and RM-70, or similar existing launchers. Propellant grain is a single cylindrically shaped piece, which is inhibited along the outer surface and front end. It contains two types of propellant, which differ in burning rate. This has resulted in a high level loading factor, almost neutral burning and minimization of the silver being used.

Rocket propellant used for grain production is a modern thermoplastic composite propellant with a high percentage of aluminium , with burning temperatures exceeding 3000K and with a high value of specific impulse.
The steel nozzle with abounded ablative materials has one graphite throat.

TECHNICAL CHARACTERISTICS:

	G-2000/45
Caliber	122 mm
Length	2862 mm
Temperature range	-30°C to +50°C
Total mass	67 kg
Warhead mass with fuse	19 kg
Propellant mass	27,3 kg
Burning time	2,7 s
Total motor impulse	63000 dNs
Specific motor impulse	2300 Ns/kg
Max. Velocity at Xe.	1150 m/s
Top of the Trajectory at Xe.	23600 m
Time of Flight at Xe.	130 s
Elevation	57°
Range (Xe.)	45 km
CEP at max. range	<0,96%
Warhead Type	Blast/Fragmentation
Fuze Type	Contact/Proximity
Propellant Type	Composite Solid Propellant