



MLRS GRAD G-2000

The world's longest range for the most complex missions

The 122 mm G-2000 GRAD is the improved version of the famous 122 mm GRAD artillery rocket. It is also one of the most accurate artillery rockets on the market, with the longest range among the rockets of this calibre – which is extended to 40.5 km. EDePro's established and unrivalled expertise in modernising outdated rocket systems, artillery munition and military equipment. Combat-proven and highly reliable, the G-2000 is currently in service in numerous artillery forces worldwide.

Tactical Use

The 122 mm GRAD multiple rocket launcher system (MRLS) is designed to destroy enemy motorised rifle units and infantry units (in concentration areas, on the march or in formations), artillery batteries, air defence units, as well as logistics facilities – with narrow or ultra-narrow divergence.

The Warhead Type

The G-2000 GRAD can use a wide range of artillery rockets with similar designs. The rockets differ only in the type of their warhead (separable or inseparable high-explosive warhead, or a cluster warhead with shaped-charge or fragmentation submunition).

The Integration Flexibility

The G-2000's rocket motor has a completely new and state-of-the-art design. The warhead (fuse included), rocket guide and cover are identical to those of the original GRAD rocket. Furthermore, the G-2000 is fully compatible with mobile MLRS, such as the BM-21 and RM-70, or similar existing launchers.

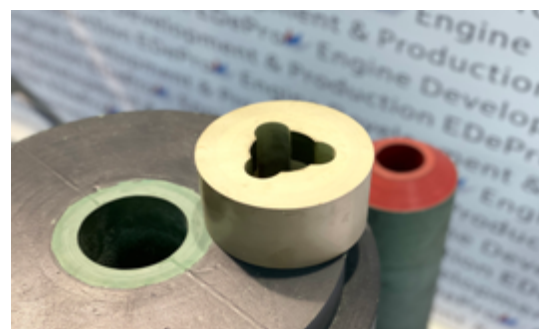
MAIN SPECIFICATIONS

- Ø Calibre: 122 mm
- ◇ Range: 40.5 km
- ⚖ Takeoff mass: 69 kg
- ↔ Length: 2875 mm



New Composite Solid Propellant Solution

The rocket's cylindrical propellant grain has inhibitors on the outer surface, the front end in particular. Moreover, it contains two types of propellant with different burning rates. This advancement results in a high-level load factor and almost neutral burning, with minimised sliver formation.



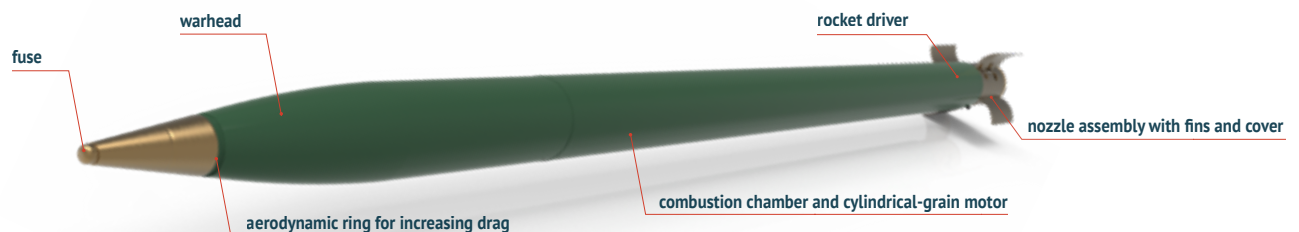


MAIN TACTICAL AND TECHNICAL PERFORMANCES

Technical Specification

Technical Specification	Original Grad	G-2000	Unit
Calibre	122	122	mm
Length	2875	2875	mm
Takeoff mass	66	69	kg
Maximum range (Xe.)	20.3	40.2	km
Operating temperature	-30~+50	-30~+50	°C
Warhead's mass (fuse included)	19.1	19.1	kg
Propellant's mass	20.45	27.3	kg
Burning time	2.0	2.7	s
Motor's total impuls	39700	62800	Ns
Motor's specific impuls	1941	2300	Ns/kg
Max velocity at Xe.	690.6	1100	m/s
Top of trajectory at Xe.	7100	17800	m
Flight time at Xe.	76	126	s
Elevation angle	50	56.9	°
Circular error probability (CEP) at max. range	1.27	0.96	%

SYSTEM EQUIPMENT



BENEFITS

- » With range of 40 km G-2000 has a new tactical and strategic combat role in modern warfare.
- » The rocket's shelf life was extended for an additional 10-15 years.
- » The rocket's package - launcher and logistics remained the same.
- » Its usage does not require additional personnel training.
- » The upgrading process is simple, quick and carried out with the customer.

