

TECHNICAL SPECIFICATIONS AND BASIC CHARACTERISTICS

GRAD-PL Portable Tripod-mounted Rocket Launcher calibre 122 mm

Main Characteristics: GRAD-PL light-weight portable tripod-mounted rocket system is a complete artillery weapon comprises a standard BM-21 Grad monotube single-round man-portable launcher (it can be reloaded and used again) for a standard-long 9M22U 122 mm HE-FRAG rocket and a fire control panel. This system has been adopted in recent years by various African and Middle-east countries within the last terrorist-groups and various fractions civil wars as well as it is still popular with the paramilitary and guerrilla forces. The system is light-weight and thus highly mobile and can be carried by 2 soldiers after shot for changing position in order to not be detected. It can be also mounted on the pick-ups and other lightly armoured military or paramilitary vehicles. The rocket launcher is loaded from the rear part and is very easy and simple for operation and maintenance. Grad-PL system can be used for direct as well as indirect fire against point or surface targets. The system is very reliable and is controlled remotely by the portable Fire control panel to avoid jeopardy for the operator.



GRAD-PL Portable Rocket Launcher Basic Tactical-Technical Characteristics	
Field launcher Type	Man-portable Tripod-mounted Rocket Launcher/Reactive weapon
Field weapon Producer	Compel Industries – Slovakia (European Union)
Caliber/Cartridge	122mm smoothbore (9M22U standard-long Grad rocket HE-FRAG)
Weight of weapon	62,0 kg (without tripod), 94,0 kg (with tripod)
Weapon Length	3 010 mm
Weapon height	1,6 m (3,1 m width allowing full weapon traverse)
Weapon crew	2 (1 gunner and 1 loader) – manually loaded from the bottom side
Rate of Fire	4 – 5 rounds/min (theoretical), 2 – 3 rounds/min (practical)
Muzzle velocity	680 – 690 m/s
Max. effective range	5.000 – 20.000 m (for indirect firing), 5.000 m (for direct firing)

Standard Weapon Equipment & Accessories:

- Rocket launcher - mono-tube with ignition system
- 1 pc of Movable adjustable weapon support
- 1 pc of Adjustable folding carriage tripod
- 1 pc of Electric ignition device – Fire control panel
- 1 pc of Optical sight 2-OMG-122 firing aiming device
- 1 pc of Artillery quadrant KO – for indirect firing
- 1 pc of Barrel protective caps set
- 1 pc of cleaning-kit and tool-kit Carrying bag
- 1 pc of Small spare parts and tools maintenance kit
- 1 pc of Standard cleaning kit incl. cleaning rod, brush, oilcan and rag



