



TECHNICAL SPECIFICATIONS AND BASIC CHARACTERISTICS

RPG-7VM Hand-held Portable Reactive Weapon cal. 40/85/105 mm

Main Characteristics: The RPG-7VM is a hand-held, portable, reusable, unguided, shoulder-launched, anti-tank rocket-propelled reactive weapon. Originally the RPG-7 (*Hand-held anti-tank grenade launcher*) and its predecessor, the RPG-2, was designed by the Soviet Union and now it is manufactured by the Russian weapon factory Bazalt. The launcher is reloadable and based around a steel tube, 40 mm in diameter, 950 mm long, and weighing 6,3 kg. The middle of the tube is wood wrapped to protect the user from heat and the end is flared to assist in blast shielding and recoil reduction. Sighting is usually optical with a back-up iron sight, and passive infra-red and night sights are also available. As with similar weapons, the grenade protrudes from the launch tubes. It is 40 – 105 millimeters in diameter and weighs between 2 and 4,5 kg. It is launched by a gunpowder booster charge, giving it an initial speed of 115 – 120 meters per second and creating a cloud of light grey-blue smoke that can give away the position of the shooter. The rocket motor ignites after 10 meters and sustains flight out to 500 meters at a maximum velocity of 295 meters per second. The grenade is stabilized by two sets of fins that deploy in-flight: one large set on the stabilizer pipe to maintain direction and a smaller front set to induce rotation. The RPG-7VM launcher can fire a variety of warheads for anti-armor (HEAT) or anti-personnel (HE-FRAG, Thermobaric) purposes (against soft-skinned and lightly armored targets).



RPG-7VM Hand-held Reactive Weapon Basic Tactical-Technical Characteristics	
Reactive Weapon Type	Hand-held Anti-tank Grenade launcher/Reactive weapon
A-T Weapon Producer	Compel Industries – Slovakia (European Union)
Caliber/Cartridge	40mm smoothbore (PG-7V, OG-7V and TB-7V 85/105mm projectiles)
Weight of weapon	6,3 kg (incl.optical sight without projectile), 8,6 kg (fully loaded)
Weapon Length	1 240 m (with loaded projectile)
Barrel length	950 mm (launcher tube length)
Weapon crew	2 (1 gunner and 1 loader) – manually loaded from muzzle side
Rate of Fire	5 – 6 rounds/min (theoretical), 3 – 4 rounds/min (practical)
Muzzle velocity	115 – 120 m/s
Max. effective range	500 m (with using optical day aiming sight 3x13° PGO-7M)

Standard Weapon Equipment & Accessories:

- Hand-held reactive weapon with trigger mechanism
- 1 pcs of 3x Optical sight PGO-7M aiming device
- 1 pc of Carrying weapon shoulder strap
- 1 pc of Carrier rucksack for 3 pcs of rocket grenades
- 1 pc of Small spare parts and tools maintenance kit
- 1 pc of cleaning-kit and tool-kit Carrying bag
- 1 pc of Barrel protective caps set
- 1 pc of Standard cleaning kit incl. cleaning rod, brush, oilcan and rag

