

30mm AGS-17

Automatic Grenade Launcher

Mission

The 30mm AGS-17 automatic grenade launcher is designed to engage enemy manpower and light weapon systems, both exposed and protected.

Features

The weapon fires the 30mm VOG-17M and VOG-30 impact-fuse fragmentation rounds. Ammunition is fed from a 29-round metal link belt box, mounted on the right-hand side.

The grenade launcher features a simple design, which provides fail-safe operation in any environment. AGS-17 delivers flat and curved trajectory automatic fire. In a carrying position



it brakes up into three main units: grenade launcher proper, mount, and sight.

Apart from its mounted version, the grenade launcher can also be employed from helicopters, gunboats, remotely controlled systems, armour, and to set up strongholds.

30mm AGS-30

Automatic Grenade Launcher

Mission

The 30mm AGS-30 automatic grenade launcher is a very light and most efficient team-operated support weapon. It is designed to kill hostile manpower and fire weapons, either unsheltered, entrenched or located behind or inside natural covers (in ravines or on reverse hill slopes, and the like).

Features

AGS-30 is unbeatable in weight in its class. The grenade launcher has simple design, which ensures fail-safe operation in any environment.

AGS-30 fires the same ammo as AGS-17. The grenade launcher is blowback-operated, with sear triggering fire. The opposing spring

fully



absorbs breech recoil, thus facilitating percussion-free operation. This design solution allowed for a considerable slash in the weapon's weight, leaving accuracy of fire intact. Trigger assembly can operate only in automatic mode.

Basic specifications

	AGS-17	AGS-30
Calibre, mm	30	30
Ammo	VOG-17M, VOG-30	VOG-17M, VOG-30
Effective range of fire, m	1,700	1,700
Muzzle velocity, m/s	185	185
Weight, kg:		
grenade launcher without sight and box	31	16.5
box with 29 rounds	14.5	14.5
Automatic rate of fire, rds/min	420	400
Crew	3	2

SHMEL

Infantry Rocket Flamethrower



Mission

The Shmel disposable flamethrower is employed to increase combat capabilities of the ground forces. It is designed to attack personnel and weapon systems in various covers, as well as to destroy fortifications, automobiles and lightly armoured vehicles, and set fire and generate smoke screens.

Features

Shmel is most effective in terrains, where artillery or armoured vehicles are restricted, i.e. in mountains, built-up areas, forests, on the plain when roads are impassable, or when enemy aviation and artillery enjoy obvious superiority, and also in ranger (guerrilla) operations.

The flamethrower can be fitted with three types of warheads:

- RPO-A (thermobaric) warhead, used to attack protected weapon systems in built-up areas, fields, mountains, as well as to destroy covers, automobiles and lightly armoured vehicles;

- RPO-Z (incendiary) warhead, used to set landscape, buildings, and oil depots on fire;
- RPO-D (smoke) warhead, used to set up smoke screens, blinding weapon system crews, as well as to create unbearable conditions inside various covers.

The Shmel flamethrower boasts high combat capabilities and reliability, and is easy to handle.

General description

The disposable launcher (which is also sealed container for storing and transporting the warhead) houses a capsule-warhead and a gunpowder booster. The launcher is made of glass-reinforced plastic. It mounts firing mechanism with safety catch and mechanical sight, consisting of a fore sight and an adjustable folding dioptre backsight. The flamethrower can be fitted with an optical sight as well. A portable set of Shmel includes two loaded launchers, connected so as to make a 24-kg pack to be carried on the back.

When launched, the capsule-warhead flies along a ballistic trajectory. The warhead is fin-stabilised. The unique design of the warhead ensures minimum variation of muzzle velocities and high accuracy. Hit probability against an IFV at 400 m is 0.8. Lethality of the thermobaric warhead is similar to that of a 122mm HE-fragmentation round. The flamethrower is shoulder-fired. It can also be fired from a room (over 60 cu. m in volume), and with obstacles behind it.

The RPO-A, RPO-Z and RPO-D-equipped flamethrowers are in service with the Russian Armed Forces.

Basic specifications

Calibre, mm	93
Length, mm	920
Weight, kg	12
Range of fire, m:	
maximum	1,000
effective	600
minimum	25
Firing position	standing, kneeling, prone

40mm RPG-7V1

Portable Anti-Tank Rocket Launcher

Mission

Though called anti-tank, RPG-7V1 armed with various-purpose rockets is a truly multirole rocket launcher. It is designed to engage armoured vehicles, various weapon systems, as well as personnel in open terrain and behind cover. In addition to non-splitting barrel version, there is a special variant for airborne troops (RPG-7D), with the barrel split in two parts for more convenient parachuting.

Features

The launcher fires various-purpose RAPs. The PG-7VL shaped-charge rocket is designed to counter armoured targets and personnel in protective covers. The PG-7VR tandem shaped-charge rocket is designed to engage armoured targets, including those fitted with ERA, as well as personnel in protective covers. The TBG-7V multiple effect (HE, fragmentation and incendiary) rocket is designed to attack personnel in open terrain or behind shelters, and destroy light armoured vehicles and various fortifications. The OG-7V fragmentation rocket is designed to kill personnel, including those wearing body armour, as well as destroy soft-skinned vehicles. The launcher is breech-loaded.



The rocket launcher mounts a standard attachment point for a day optical sight or a night optronic one. Also, a mechanical sight is an option. A complete set of the launcher includes a detachable bipod.

RPG-7V1 is easy to handle and reliable in any conditions. Alongside with the Kalashnikov assault rifles, these weapons are most popular in the world.

Launcher basic specifications

Calibre, mm	40
Weight without optical sight, kg	6.7
Length, mm	950
	(630 for RPG-7D in carrying position)
Rate of fire, rds/min	4-6

Rocket basic specifications

	PG-7VL	PG-7VR	TBG-7V	OG-7V
Warhead	shaped-charge	shaped-charge, tandem	thermobaric	fragmentation
Warhead calibre, mm	93	105	105	40
Weight, kg	2.6	4.5	4.5	2.0
Effective range of fire, m	300	200	200 (550 with UP-7V device)	700
Penetrated cover, m:				
homogeneous armour	over 0.5	over 0.6 (behind ERA)		
brickwork	over 1.5	over 2.0		
reinforced concrete	over 1.1	over 1.5		
log-and-earth	over 2.4	over 3.7		
Personnel engagement:				
kill radius, m			10	
kill area for personnel in body armour, sq. m				150

RPG-26

Anti-Tank Rocket



Mission

A light-weight disposable portable AT rocket launcher with the RPG-26 AT rocket is designed to counter armoured vehicles, weapon systems and personnel behind covers. It is used to increase combat capabilities of ground forces.

Features

RPG-26 features superb characteristics, it is easy-to-handle and reliable in operation. It incorporates the most sophisticated technologies for this type of weapon systems.

The rocket with shaped-charge warhead is placed in the barrel and fixed by a special device, which disintegrates when the weapon is fired. The barrel is also a container for storing and transporting the rocket. It is made of glass-reinforced plastics and sealed by rubber lids on both ends. It mounts a trigger mechanism with a safety catch and a mechanical sight, consisting of a folding fore sight with sighting marks and a dioptre backsight that can be used to adjust fire with respect to temperature. Only three simple steps are required to bring the weapon into firing position and back into carrying one. The booster burns only when inside launcher. After that the rocket flies

along a ballistic trajectory. The RPG-26 rocket is fin-stabilised.

RShG-2 assault rocket

The RShG-2 assault rocket is derived from RPG-26. A thermobaric warhead is of a multiple effect (HE, fragmentation and incendiary). It effectively destroys light armoured vehicles, weapon systems, and personnel in open terrain or behind shelters, as well as in confined spaces of up to 200 cu.m., in bunkers or trenches if blown up at a 1.5-2m range from a trench or an embrasure.

Basic specifications

	RPG-26	RShG-2
Warhead	shaped-charge	thermobaric
Warhead calibre, mm	72.5	72.5
Launcher weight, kg	2.9	4.0
Length, mm	770	770
Effective range of fire, m	250	350
Penetrated cover, m:		
homogeneous armour	over 0.44	-
reinforced concrete	over 1.0	-
brickwork	over 1.5	-
wood and ground	over 2.4	-

RPG-27

Anti-Tank Rocket



Mission

A disposable portable anti-tank rocket launcher with the RPG-27 AT rocket is designed to counter armoured vehicles fitted with ERA, as well as weapon systems and personnel in various shelters. It is used to increase combat capabilities of land forces.

Features

RPG-27 features superb characteristics. It is easy to handle, reliable in operation, and incorporates the most sophisticated technologies for this type of weapon.

The rocket with a tandem shaped-charge warhead is placed inside the barrel, where it is fixed by a special device, which disintegrates when the weapon is fired. The barrel is also a container for storing and transporting rocket. The barrel is made of glass-reinforced plastics and sealed by rubber lids on both ends. The launcher mounts a trigger mechanism with a

safety catch and a mechanical sight, consisting of a folding fore sight with sighting marks and a dioptric backsight that can be used to adjust fire with respect to temperature. Only three simple steps are required to bring the weapon into firing position and back into carrying one. The booster burns only when inside the launcher, then the rocket flies along a ballistic trajectory. The RPG-27 rocket is fin-stabilized.

RShG-1 assault rocket

The RShG-1 assault rocket is derived from



Basic specifications

	RPG-27	RShG-1
Warhead	shaped-charge, tandem	thermobaric
Warhead calibre, mm	105	105
Launcher weight, kg	8.3	8.3
Length, mm	1,135	1,135
Range of aimed fire, m	200	600
Target penetration, m:		
homogeneous armour	over 0.6	-
reinforced concrete and brick	over 1.5	-
log-and-earth	over 3.7	-

RPG-27. A thermobaric warhead is of multiple effect (HE, fragmentation and incendiary). The RShG-1 rocket effectively destroys light armoured vehicles, weapon systems and kills personnel in open terrain or behind shelters. It is capable of killing personnel in rooms, as well as in confined spaces of up to 300 cu.m in volume, or in trenches and bunkers if blown up at a 2m range from a trench or an embrasure.