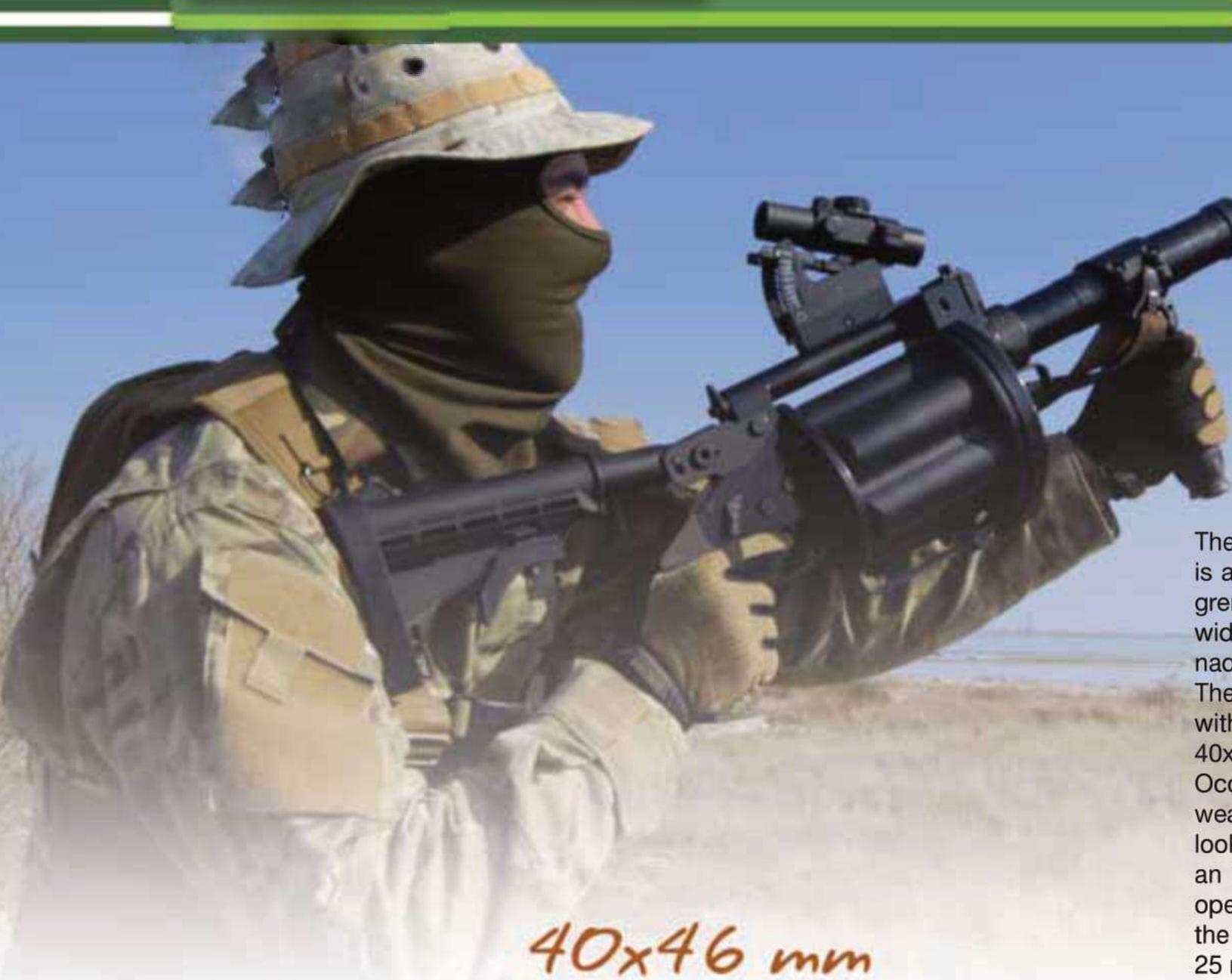
# ALTEK

# Grenade Launcher Type RBG 40 mm/6 M11



The 40x46 mm RBG 40 mm/6 M11 launcher is a lightweight semi-automatic, shoulder fired grenade launcher for infantry use. It fires the widely used 40 mm, low velocity family of grenades.

The weapon is based on the revolver principle with a spring-driven gas operated cylinder. The 40x46 mm Grenade Launcher is fitted with an Occluded Eye Gun sight, which means that the weapon is fired with both eyes open. One eye looks into the sight, and the other eye then has an unimpeded view of the target. The sight is operational in poor light conditions as long as the target can be seen. The sight is calibrated in 25 metre increments, from zero to 375 meters.

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# Grenade Launcher Type RBG 40 mm/6 M11





# Gurza One Tactical intelligence patrol vehicle



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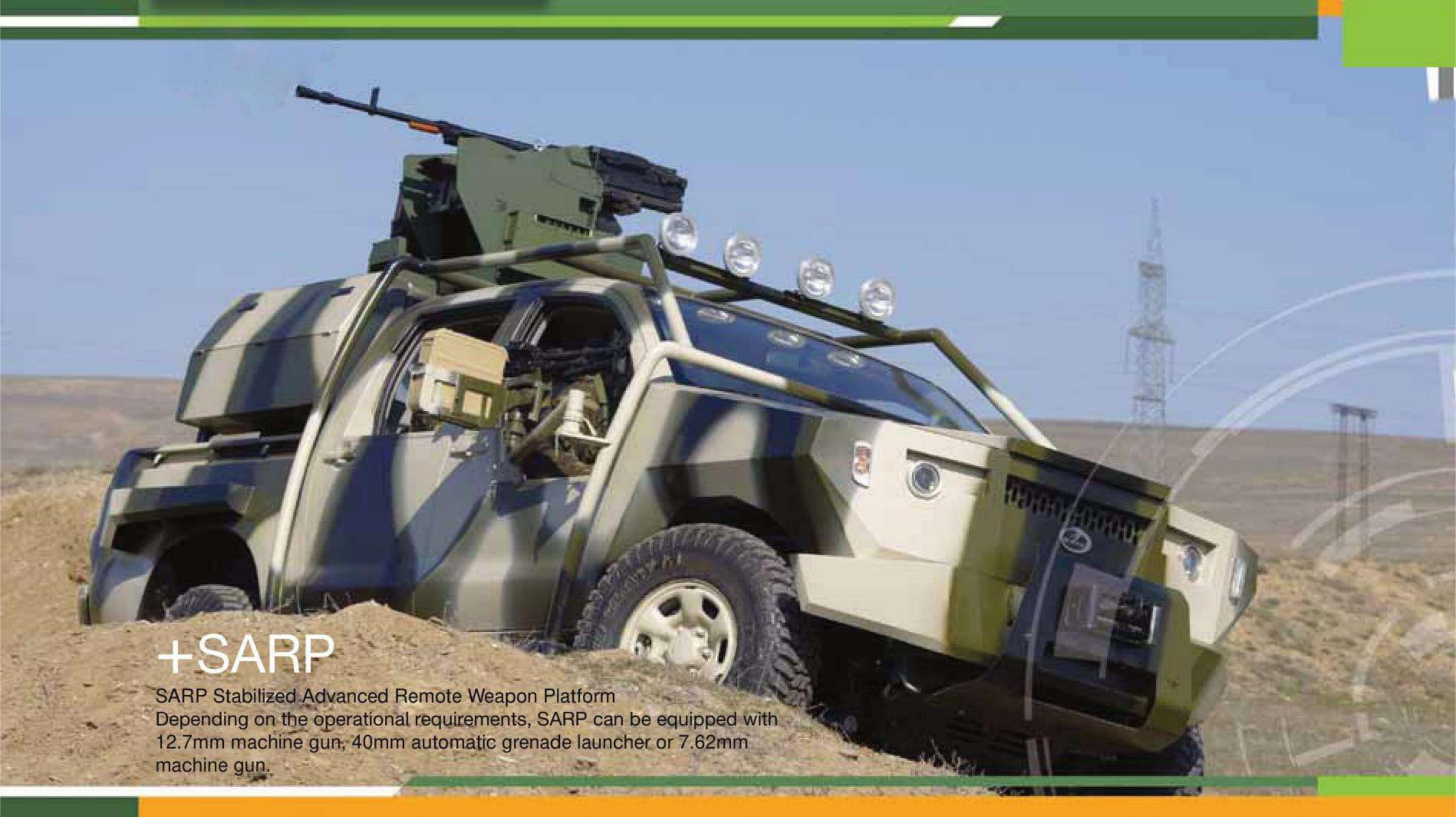
# Gurza One Tactical intelligence patrol vehicle



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# Gurza<sup>2</sup> Tactical intelligence patrol vehicle



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# Gurza2 Tactical intelligence patrol vehicle



- Base of the Toyota Hilux 12 4x4 model
- D-4D 114 P.S Diesel engine / 5 MT
- Crew 4
- Payload ability at 2500 kg
- Increased ground clearance / offroad wheels
- Safety frame / strengthened dumper
- Electrical tow (Max. 5500 kg)
- Anatomic seats by Recaro
- Additional water and fuel cans
- 2 fire-extinguishers
- Additional halogen lights
- 2 side machine guns/ PKM & HP (7.62x54 mm)
- KN-A collimator and SPP optical sight

### SARP

- Fire-on-the-move capability
- Day and night imaging
- Automatic target tracking
- Laser Range Finder for accurate ballistics
- Last round warning
- High ammunition storage capability

400 rounds (12.7mm)

1000 rounds for (7.62mm)

96 rounds (40mm)

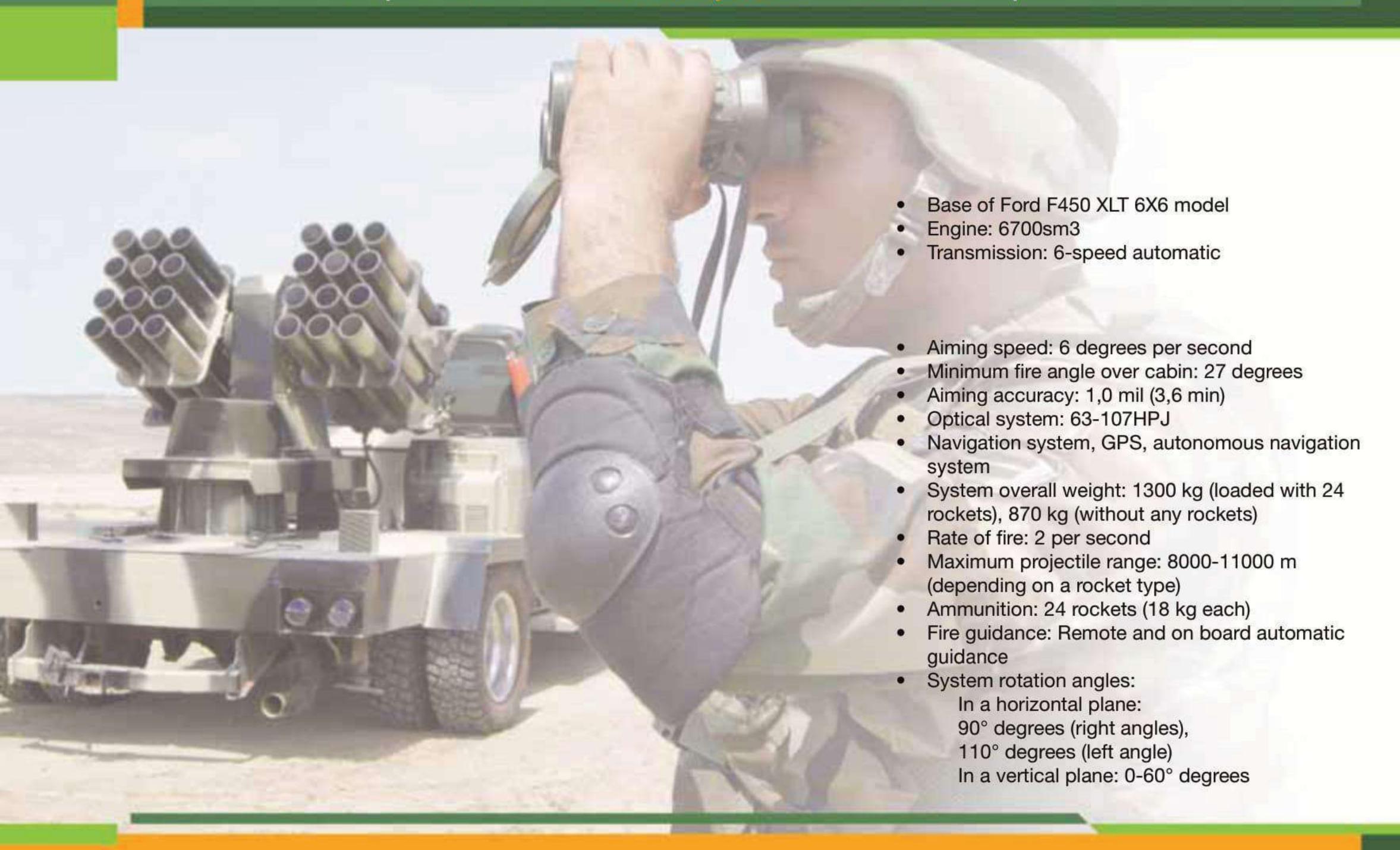
- Low silhouette and lightweight
- Unlimited rotation in azimuth and -30° to +60° in elevation
- Integration interface for external sensors and command & control systems

# 107 mm Multiple Launch Rocket System Mobile Complex



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# 107 mm Multiple Launch Rocket System Mobile Complex



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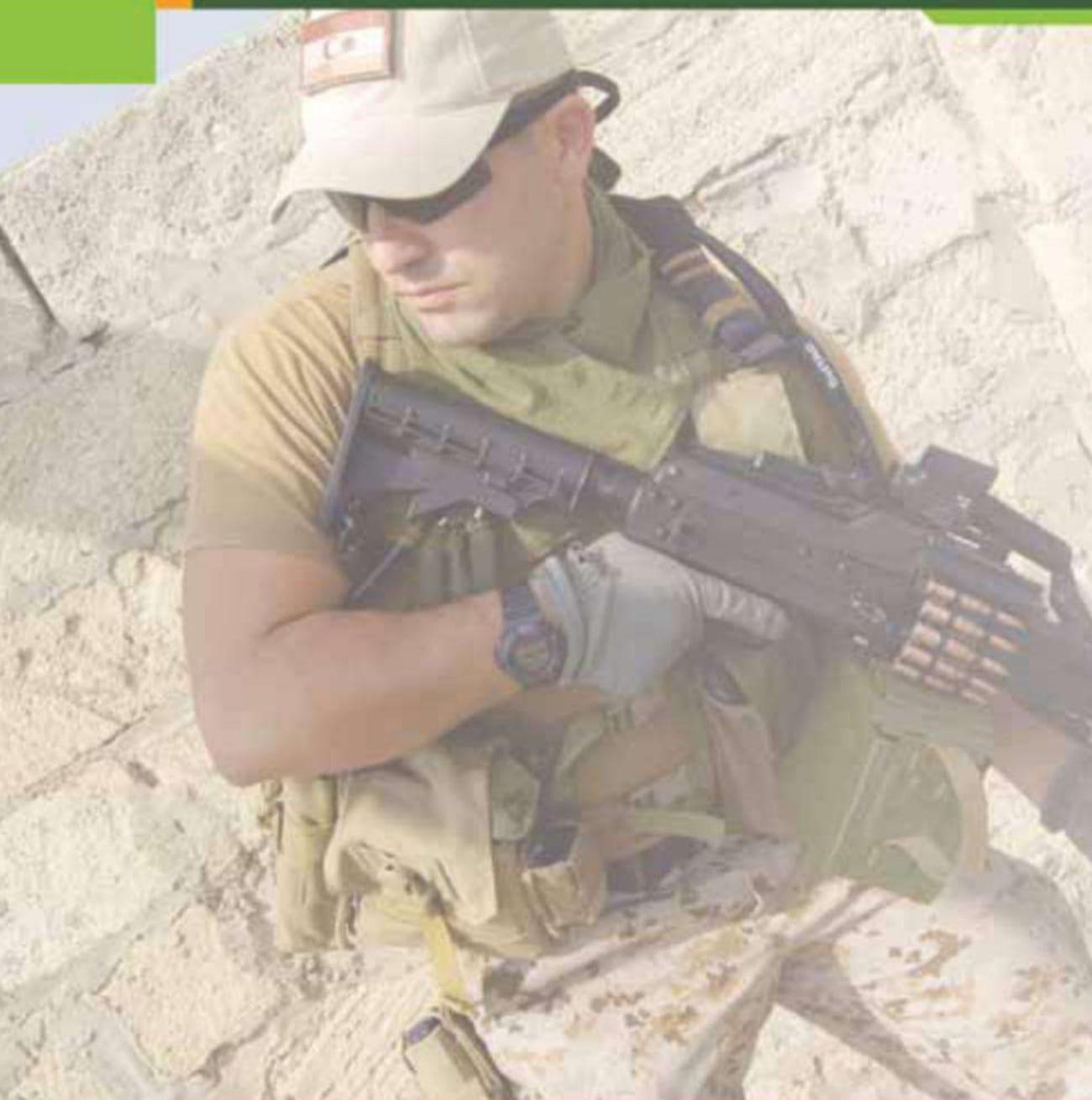
7.62x54 mm HP 7,62 LMG (Light machine Gun)



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

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# 7.62x54 mm HP 7,62 LMG (Light machine Gun)



The HP-7,62 is a lightweight advanced machine gun. The HP-7,62 is very reliable under adverse and extreme environmental conditions.

The machine gun operates in automatic fire mode.

The weapon fires 7,62x54R mm cartridges.

A 100 or 200 round link metal belt, held in metal box, feed cartridge in.

- HP-7,62 can be fired from a variety of mounts, special helicopter airborne mount, vehicle or seacraft mounts
- The HP-7,62 is equipped with picatinny rails for optical devices
- The HP-7,62 bipod is extremely robust and durable
- The HP-7,62 has a gas regulator for rate adjustment
- The HP-7,62 can be quickly dismantled on the field for maintenance

#### Specifications

Ammunition - 7,62x54 mm

Operation - Open bolt, gas impact on piston head, rotating bolt

Firing mode – continuous

Rate of fire - 650 rounds/min

Practical rate - 250 rounds/min

Muzzle velocity - 820 m/s

Effective firing range - 1000 m

Ammunition box capacity - 100/200 rounds

Barrel length - 517 mm

Overall length:

Buttstock folded - 980 mm

Buttstock open - 1080 mm

Weigth without ammunition box – 8,2 kg System life – 25000 rounds

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### UP 7.62 Machine Gun



The Machine Gun operates in automatic fire mode. It fires 7.62x54 mm cartridges with ordinary bullets, armour-piercing incendiary and tracer bullets. A 100 and 200 round link metal belt, held in a metal box feed cartridges in.

Option: Rail for sighting devices.

1100		
	Caliber	7.62
1	Cartridge	7.62x54
	Fire mode	Automatic
	Rate of fire, rounds/min	650
	Practical rate, rounds/min	250
	Muzzle velocity, m/s	825
	Maximum effective	
	firing range, m	3800
	Sighting range, m	1500
	Ammunition box capacity, rounds	100, 200
	Barrel length, mm	605
	Sight radius, mm	663
	Olgitt radius, Illiii	000

Overall length, mm	1160		
Weight without ammunition box, kg	7.5		
Weight of loaded ammunition box - with loaded 100 round metal belt, kg	3.9		
- with loaded 200 round metal belt, kg	6.5		
System life, rounds	25 000		
Principle of function	Gas operated		
Cartridges	7.62x54 mm Ordinary bullets,		
	Armour Piercing-Incendiary (API) and Tracer bullets.		



# IST 12,7 Anti-Materiel Rifle



### IST 12,7 Anti-Materiel Rifle



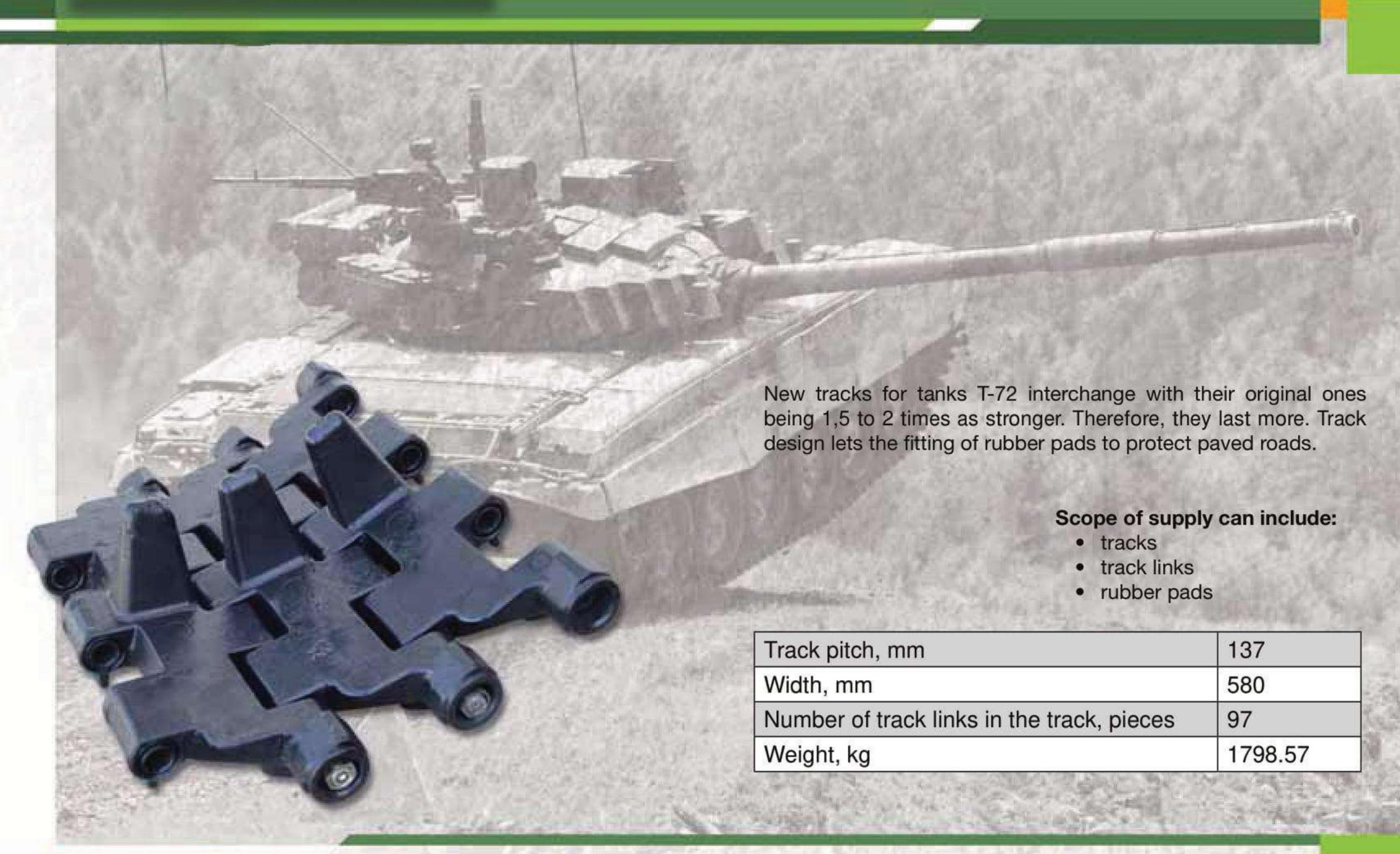
Feed System	7 round box type magazine
Bolt	Semi-automatic with 3 locking lugs
Cartridges	12,7x108 mm Armour Piercing- Incendiary(API), Armour Piercing- Incendiary-Tracer (API-T) and HE Incendiary bullets.
Armour-piercing action (penetration probability 90%) range	100 m
Perpendicular armour plate	20 mm with B-32 (API)
Mountings	Adjustable, bipod and adjustable mono-pod at rear

- 12,7x108 mm calibre offers enhanced target effect against materiel targets
- Magazine-fed, automatic gas operation, offers rapid follow-up shots with simplicity and reliability
- Precision, man-portable, long range anti-materiel weapon
- Provides for efficient, reliable & safe operation & servicing in the following environment:
- Ambient temperature range, from -50°c to +50°c
- Relative air humidity: 93-97% at +25°c
- At rain, snow, sand and dust impact

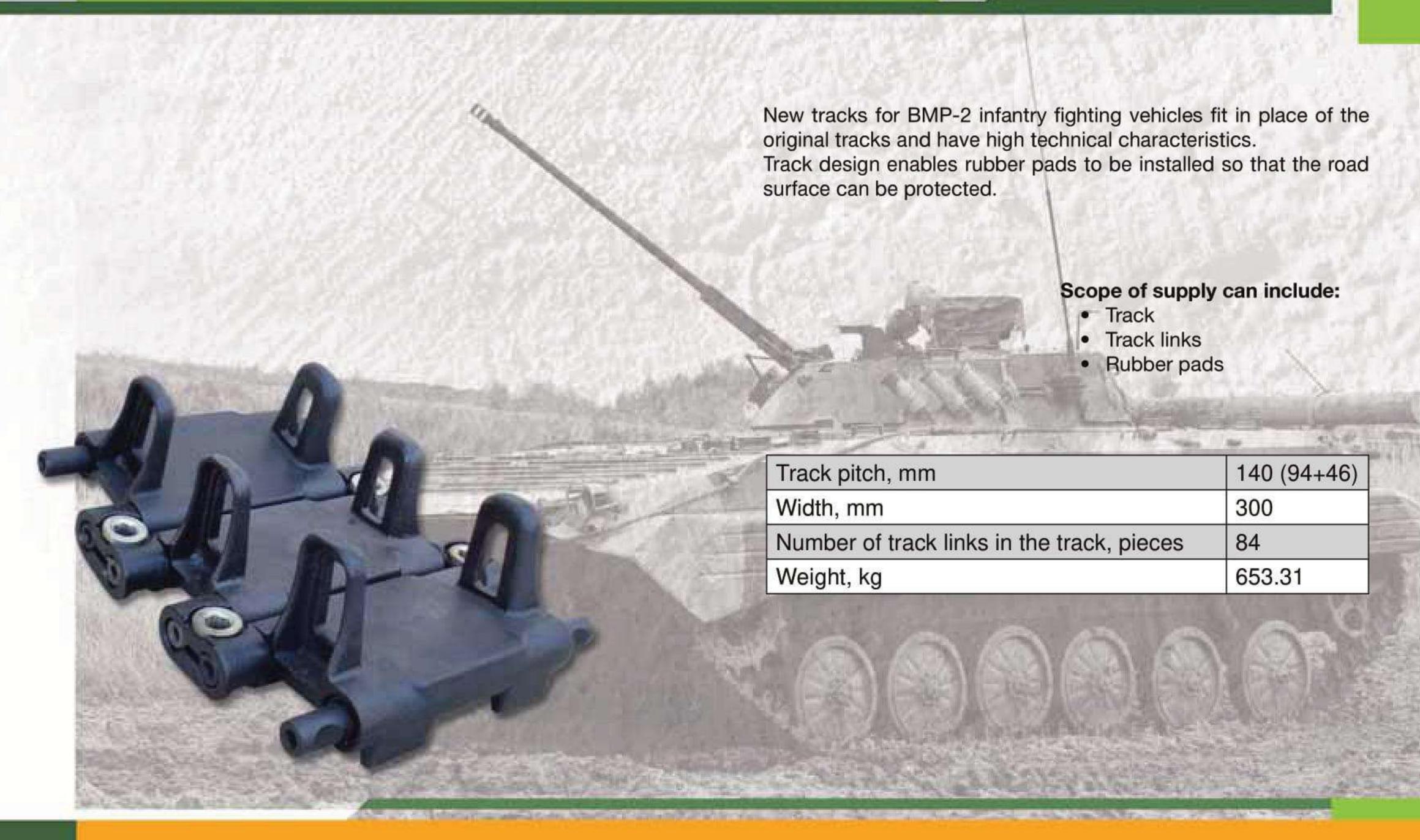
Caliber, mm	12,7 mm
Cartridge	12,7x108 mm
System of operation	Gas operated
Weight, (gun and scope, unloaded)	16 kg
Muzzle velocity	845 m/s
Sighting range	2 000 m
Overall length	1 800 mm
Barrel length	1 100 mm
Number of riflings	8 p/c
Rifling pitch	381 mm
Sighting	6-24x56 Telescopic Sight with dioptric adjustment and reticle illuminating system







# Tracks for BMP-2 Infantry Fighting Vehicles



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

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# 12 mm Cartridge with Rubber Shot & Rubber Bullet



12 mm cartridge with less-than-lethal rubber shot & rubber bullet is designed for chambering 12 mm smooth bore weapon and is an effective antiriot and personal defence means.

#### **Rubber Shot**

Effective range of fire, m 3,5÷15

Rubber shot mass, g 7,8±0,4

65±1,8 Cartridge length, mm

Operating temperatute range from -15 to +40 °C

#### **Rubber Bullet**

Bullet mass, g 7,8±0,4

Cartridge length, mm 65±1,8

Operating temperatute range, from -15 to +40 °C

Effective range of fire, m 12÷35

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

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# 12 & 16 Cal. Hunting Cartridges



The hunting cartridges, manufactured in compliance with military standards are ideal for professional and hobby hunting. The reliability and performance of the cartridges meet the levels of the best foreign samples.

	Case							
Caliber	Туре	Length, mm (inch)	Wad	Wad	Shot size, mm	Shot weight	Muzzle velocity, V <sub>10</sub> , m/s	Max pres- sure, Bar (kg/sm²)
12	Plastic	70 (2.756)	Plastic	2,21- 3,63	30-36	320	740 (755)	
16	Plastic	70 (2.756)	Plastic	2,21- 3,63	30-36		780 (795)	

# 5.45 mm Cartridge with Enhanced Penetrating Action Bullet (Designation 7N10)



This cartridge is designed to engage unsheltred targets at ranges of up to 1.200 m, flak vest-clad manpower at ranges of up to 100 m, personnel located behind lightly armored barriers at ranges of up to 1.000 m and aerial targets at up to 900 m.

It is used for firing all types of organic weapons chambered for the 5.45 mm cartridge. The bullet is not painted.

#### Specifications

Caliber, mm 5.45x39

Weight, g:

cartridge 10.7

bullet 3.62

powder charge 1.44

Cartridge length, mm 57<sub>-0.8</sub>

Grade powder SSNf-30/3.69

Muzzle velocity, V<sub>25</sub>, m/s 870 - 890

Max powder gas pressure, MPa (kg/sm²) ≤ 294.2 (3000)

Fire consistency at 100-m

range ( $R_{50}$ ), sm, max 3.5

Effective penetration distance, m:

St3 steel plate, 16 mm thick 300

armor plate, 5 mm thick 150

6Zh85T armor vest 200

# 5.45 mm Cartridge with a Tracer Bullet (Designation 7T2)



The cartridge is used for target designation and arbitrary correction. Compatible with the AK74, AKS74, AKS74U assault rifles and RPK74, RPKS74 light machine guns.

The tip of the bullet is painted green

#### Specifications

Caliber, mm 5.45x39

Weight, g:

cartridge 10.3

bullet 3.23

powder charge 1.44

Cartridge length, mm 57<sub>-0.8</sub>

Grade powder SSNf-30/3.69

Muzzle velocity, V<sub>25</sub>, m/s 883

Max powder gas pressure, MPa (kg/sm²) ≤ 294.2 (3000)

Fire consistency at 300-m range (R<sub>50</sub>), sm, max 14

Tracer action distance, m 800

# ALTEK

# 7.62 mm Cartridge, Model 1943, with Steel Core Bullet (Designation 57-N-231S)



This cartridge is designed to engage hostile manpower and fire weapons at a range of up to 800 m when firing the assault rifle and 1,000 m when firing the light machine gun. It is fired from **AKM** and **AKMS** assault rifles as well as RPK and RPKS light machine guns.

The bullet is not painted.

#### **Specifications**

Caliber, mm 7.62x39

Weight, g:

cartridge 15.8 ... 16.8

bullet 7.75 ... 8.05

powder charge 1.56

Cartridge length, mm 56,

Grade powder SSNf-30/3.97

Muzzle velocity, V<sub>25</sub>, m/s 710 – 725

Max mean powder gas pressure, MPa (kg/cm²) ≤274.6 (2800)

Fire consistency at

300-m range (R<sub>50</sub>), sm, max 7.5

Effective penetration range, m:

steel helmet 1.000

St3 steel plate, 6 mm thick 300

6Zh85T flak vest 60

Cartridge case material steel

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# 7.62 mm Cartridge, Model 1943, with a Tracer Bullet (Designation 57-N-231P)



The cartridge is used for target designation and arbitrary correction. Compatible with the **AKM, AKMS** assault rifles and RPK, RPKS light machine guns.

The tip of the bullet is painted green.

### **Specifications**

Caliber, mm 7.62x39

Weight, g:

cartridge 16.1

bullet 7.57

powder charge 1.56

Cartridge length, mm 56,

Grade powder SSNf-30/3.97

Muzzle velocity, V<sub>25</sub>, m/s 718

Max mean powder

gas pressure, MPa (kg/cm²) ≤274.6 (2800)

Fire consistency at

300-m range (R<sub>50</sub>), sm, max 14

Tracer action distance, m 800



# 7.62 mm Cartridge with Low Velocity Bullet

(Designation 57-N-231U)



The cartridge is designed for engagement of unsheltered manpower at firing ranges of up to 400 m in special operations.

It is fired from the **AKM (AKMS)** assault rifle fitted with the PBS-1 device. The bullet point is painted black and green.

#### Specifications

Caliber, mm 7.62x39

Weight, g:

cartridge 20.2

bullet 12.55

powder charge 1.0

Cartridge length, mm 56,

Grade powder P-45

Muzzle velocity, V<sub>25</sub>, m/s 293

Max mean powder gas pressure, kg/sm<sup>2</sup> 2000

Fire consistency at 100-m

range (R<sub>50</sub>), sm, max 3.5

# 7.62x51 mm Nato Cartridge with Lead Core Bullet



The cartridge is designed for firing weapons chambered for the 7.62 mm NATO cartridge.

The bullet is not painted

#### Specifications

Caliber, mm 7.62x51

Weight, g:

cartridge 23.8

bullet 9.46

Cartridge length, mm 71

Muzzle velocity, m/s 840

Max mean powder gas pressure, kg/sm<sup>2</sup> 2900

Fire consistency at 300-m range (R<sub>100</sub>), sm 8 max

Penetration range for St3 steel plate, 6 mm thick,

m 400

Catridge case material brass



# 7.62 mm Blank Cartridge (Designation 57-Kh-231)



This cartridge is used to imitate the sound of shooting. Compatible with all operational 7.62x39 mm weapons. Firing blank cartridges requires a special plug screwed onto the muzzle to ensure gas pressure sufficient to power gas-operated weapons and disintegrate the dummy bullet.

#### **Specifications**

Caliber, mm 7.62x39

Cartridge weight, g 10.8

Powder charge weight, g 0.77

Cartridge length, mm 57<sub>-0,8</sub>

Grade powder P-125

# 5.45x39 mm Blank Cartridge with A Dummy Bullet (Designation 7Kh3)



This cartridge is designed to produce the sound effect of firing. It is used in firing all types of organic, weapons chambered for the 5.45 mm cartridge. Firing blank cartridges requires a special plug screwed onto the muzzle to ensure gas pressure sufficient to power gas-operated weapons and disintegrate the dummy bullet. The dummy bullet is painted white.

#### **Specifications**

Caliber, mm 5.45x39

Weight, g:

cartridge 6.6

bullet 0.24

powder charge 1.0

Cartridge length, mm 57<sub>-0,8</sub>

Grade powder Sf 033fl

# 7.62x54R mm Rifle Cartridge with Steel Core Bullet (Designation 57-N-323S)



The cartridge is designed to engage hostile manpower and fire weapons. It is fired from **PK**, **PKM**, **PKMS**, **PKMB**, **PKT**, **SGM** and **GShG-7,62** machine guns, as well as SVD and SVDS snipers rifles. The bullet is not painted.

#### Specifications

Caliber, mm 7.62x54

Weight, g:

cartridge 21.8

bullet 9.6

powder charge 3.1

Cartridge length, mm 76.5

Grade powder VT

Muzzle velocity, m/s 825 - 855

Max mean powder gas pressure, kg/cm² (MPa) 275 (2800)

Fire consistency at 300-m range (R<sub>50</sub>), sm 9 max

Effective penetration distance, m:

St3 steel plate, 6 mm thick 520

6Zh85T flak vest 110

Cartridge case material brass or steel

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# 7.62x54R mm Rifle Cartridge with T-46 Tracer Bullet



This cartridge is designed to designate targets and adjust fire. It is fired from UP-7,62, HP-7,62, PK (PKM), PKS (PKMS), PKMB, PKT, GShG-7,62 machine guns as well as SVD and SVDS snipers rifles. The tip of the bullet is painted green.

#### Specifications

Caliber, mm 7.62x54

Weight, g

Cartridge 22

Bullet 9.65

Powder charge 3.2

Cartridge length, mm 77,1

Grade powder VT or .308 Win

Muzzle velocity V25, m/s 798 - 825

Max mean powder gas pressure, MPa 284,4

Fire consistency at 300-m range (R50), sm 15 max

Tracer burning time, s 3

Cartridge case material steel or bimetallic



# Belts & Boxes for 7,62x54 mm Rifle Cartridges



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

# 7.62 mm Blank Rifle Cartridge (Designation 57-Kh-340)



This cartridge is used to imitate the sound of shooting. Compatible with all operational 7.62x54-mm weapons. Firing blank cartridges requires a special plug screwed onto the muzzle to ensure gas pressure sufficient to power gas-operated weapons and disintegrate the dummy bullet, and other special devices according to relevant regulations.

#### **Specifications**

Caliber, mm 7.62x54R

Cartridge weight, g 10.8

Powder charge weight 1.6

Catridge length, mm 53.7

Grade powder Xqr

# 9x18 mm Pistol Cartridge with Steel Core Bullet (Designation 57-N-181S)



This cartridge is designed to engage manpower at a range of up to 50 m. It is fired from the **PM Makarov** pistol and submachine guns.

The bullet is not painted.

#### Specifications

Caliber, mm 9x18

Weight, g:

cartridge 9.26 ... 10.07

bullet 5.75 ... 6.15

powder charge 0.25

Cartridge length, mm 25<sub>-0.52</sub>

Grade powder P-125

Muzzle velocity, V<sub>10</sub>, m/s 290 - 315

Max mean powder

gas pressure, MPa (kg/cm²) ≤117.7 (1200)

Fire consistency at 25-m

range ( $R_{50}$ ), sm (max) 3.2

Penetration range

St3 steel plate, 1.3 mm thick, m 20



# 9 mm Pistol Cartridge with Rubber Bullet



9 mm pistol cartridge is designed for chambering special weapons.

It is an effective antiriot and personal defence means with a rubber less-than-lethal bullet.

#### Specifications

Cartridge mass, g 9x18

Bullet mass, g 4.2

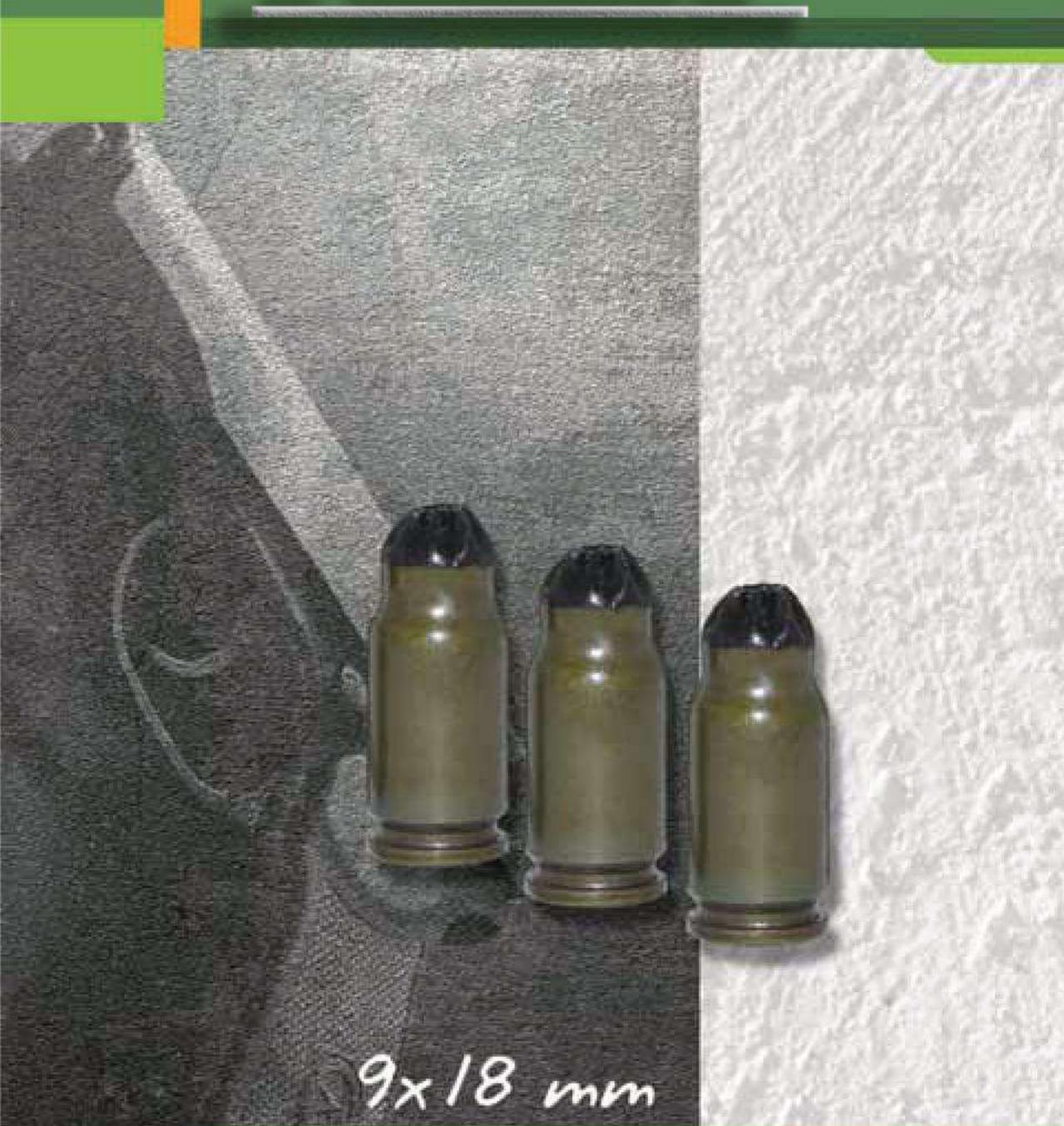
Cartridge length, mm 23±1.0

Effective range of fire, m 510

Operating temperatute range, °C from -15° to +40°C



### 9 mm Blank Cartridge



This cartridge is used to imitate the sound of shooting.

It is fired from the 9x18 mm pistol.

#### Specifications

Caliber, mm 9x18

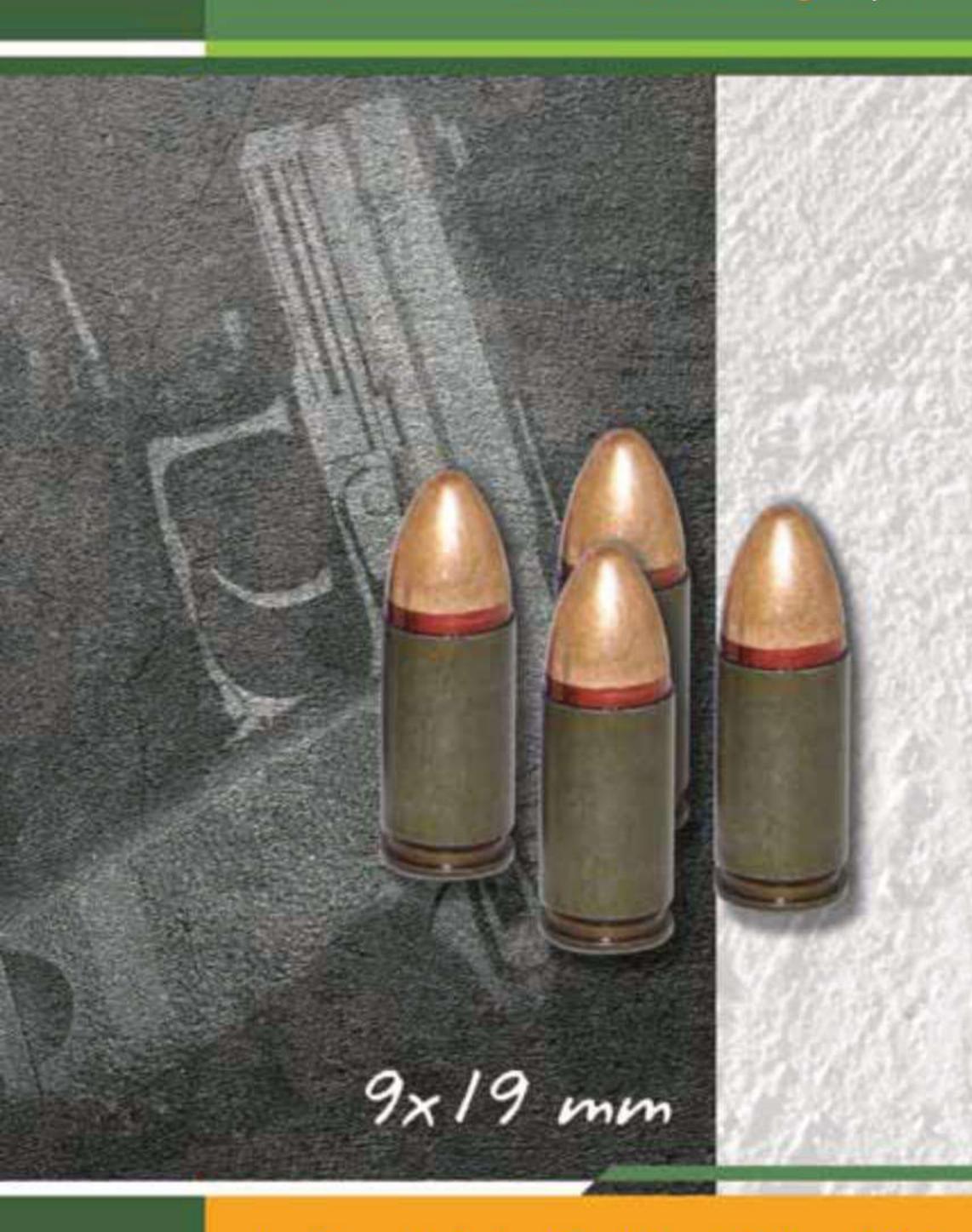
Cartridge weight, g 4.2

Catridge length, mm 23±1.0

Catridge case material steel

Operating temperature range -15° to +40°C

# 9x19 mm Pistol Cartridge (Parabellum)



ÇANKAYA/ANKARA

The cartridge is designed to engage manpower at ranges of up to 50 - 150 m. Catridge can be used in pistols, submachine guns and carbines. The bullet is unpainted.

#### Specifications

Caliber, mm 9x19

Weight, g:

cartridge  $12.0 \pm 0.4$ 

bullet  $7.9 \pm 0.1$ 

powder charge 0.34

Cartridge length, mm 29,7<sub>-0.52</sub>

Case length, mm 19,15

Muzzle velocity,  $V_{10}$ , m/s 350 ± 10

Max mean powder gas pressure, MPa ≤215

Fire consistency at

25 m range (R<sub>50</sub>), cm (max) 3,0

# 12.7x108 mm Cartridge with the B-32

### Armor-Piercing Incendiary Bullet (Designation 57-bz-542)



The cartridge is designed to engage lightly armored ground targets (armored personnel carriers) weapon emplacements and targets behind light barriers at ranges of up to 1.000 m, concentrated infantry and motor transport at ranges of up to 1.500 m and low flying targets at altitudes of up to 1.500 m. It ignites the B-70 gazoline. It is fired from NSV-12.7, NSVT-12.7 and **DShKM** machine guns.

The bullet point is painted black with the red tip.

#### **Specifications**

Caliber, mm 12.7x108

Muzzle velocity, V<sub>25</sub>, m/s 810 ... 825

Fire consistency at 300 m range (R<sub>50</sub>), max 18

Max mean gas powder pressure, MPa (kg/cm²) ≤ 303.8 (3100)

Bullet weight, g 47.4 ... 49

Cartridge weight, g 130 ... 137

Powder Charge weight, g 17

Cartridge length, mm 147,15

Grade powder 4/7

Cartridge case material brass

Armor-piercing action

(penetration probability 90%) range, m 100

perpendicular armour plate, mm 20

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# 14.5 mm Blank Cartridge (Designation 57-Kh-561)



This cartridge is used to imitate the sound of shooting. Compatible with all operational 14.5x114-mm weapons. Firing blank cartridges requires a muzzle plug and special liners put into the receiver, and adjusted catridge extractors.

#### Specifications

Caliber, mm 14.5x114

Cartridge weight, g 114.5

Powder Charge weight, g 18

Length, mm

catridge 117.2

catridge case 114

Grade powder VTJ

### 12.7x108 mm Cartridge with the BZT-44

### Armor-Piercing/Incendiary/Tracer Bullet (Designation 57-BZT-542)



The cartridge is used for target designation and arbitrary correction and ignition of flammable targets. Compatible with heavy machine guns.

The bullet effectively penetrates 15-mm perpendicular armor at up to 100

m and ignites the B-70 petrol. Compatible with the NSV-12.7, NSVT-12.7, **DShKM, A-12,7** machine guns.

The tip of the bullet is painted red and violet.

### Specifications

Caliber, mm 12.7x108

Muzzle velocity, V<sub>25</sub>, m/s 818

Fire consistency at 300 m range (R<sub>50</sub>), max 18

Max mean gas powder

pressure, MPa (kg/cm²) ≤ 303.8 (3100)

Bullet weight, g 44

Cartridge weight, g 128

Powder Charge weight, g 17

Cartridge length, mm 147,15

Grade powder 4/7

Tracer action time, sec. minimum 2,9

Cartridge case material brass

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### 12.7 mm Blank Cartridge (Designation 7Kh1)



The cartridge is used for target designation and arbitrary correction and ignition of flammable targets. Compatible with heavy machine guns.

The bullet effectively penetrates 15-mm perpendicular armor at up to 100 m and ignites the B-70 petrol. Compatible with the **NSV-12.7**, **NSVT-12.7**, **DShKM**, **A-12,7** machine guns.

The tip of the bullet is painted red and violet.

### Specifications

Caliber, mm 12.7x108

Muzzle velocity, V<sub>25</sub>, m/s 818

Fire consistency at 300 m range (R<sub>50</sub>), max 18

Max mean gas powder

pressure, MPa (kg/cm $^{2}$ )  $\leq 303.8 (3100)$ 

Bullet weight, g 44

Cartridge weight, g 128

Powder Charge weight, g 17

Cartridge length, mm 147<sub>-1.5</sub>

Grade powder 4/7

Tracer action time, sec. minimum 2,9

Cartridge case material brass

### 14.5x114 mm Cartridge with The BZT

Armor-Piercing/Incendiary/Tracer Bullet (Designation 57-BZT-561S)



The cartridge is used for target designation and arbitrary correction and ignition of flammable targets. Compatible with heavy machine guns. Compatible with the Vladimirov heavy machine gun (KPVT), the 14,5-mm PKP, SKP heavy machine guns, the ZPU-1, ZPU-2, ZU-2, and ZPU-4 anti-aircraft machine guns and IST-14.5 anti-materiel rifle. Effectively ignites the B-70 petrol. The tip of the bullet is painted red and violet.

### **Specifications**

Caliber, mm 14.5x114

Muzzle velocity, V<sub>25</sub>, m/s 995 ... 1005

Fire consistency at 300 m range (R<sub>50</sub>), max 20

Max mean gas powder

pressure, MPa (kg/cm²) ≤323.6 (3300)

Bullet weight, g 60,5

Powder Charge weight, g 31

Grade powder 5/7

Effective tracer distance, m 2200

Effective armor penetration distance

(20-mm armor plate set at 20°), m 100

Cartridge weight, g 185

Cartridge length, mm 156,15

Cartridge case material brass or steel

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## 14.5x114 mm Cartridge with the B-32 Armor-Piercing Incendiary Tracer Bullet



The cartridge is used for target designation and arbitrary correction and ignition of flammable targets. Compatible with heavy machine guns. Compatible with the Vladimirov heavy machine gun **KPV** (**KPVT**), the 14,5-mm PKP, SKP heavy machine guns, the ZPU-1, ZPU-2, ZU-2, and ZPU-4 anti-aircraft machine guns and IST-14.5 «ISTIQLAL» anti-materiel rifle. Effectively ignites the B-70 petrol. The tip of the bullet is painted red and violet.

### **Specifications**

Caliber, mm 14.5x114

Muzzle velocity, V25, m/s 995 ... 1005

Fire consistency at 300 m range (R50), max 20

Max mean gas powder pressure, MPa (kgf/cm2) ≤323.6 (3300)

Bullet weight, g 60,5

Powder Charge weight, g 31

Grade powder 5/7

Effective tracer distance, m 2200

Effective armor penetration distance

(20-mm armor plate set at 20°), m 100

Cartridge weight, g 185

Cartridge length, mm 156<sub>-1.5</sub>

Cartridge case material steel

### Yalquzaq Snayper Rifle System cal. 7,62x51 NATO (.308 Win)



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C

### Yalquzaq Snayper Rifle System cal. 7,62x51 NATO (.308 Win)

System: Bolt action rifle, manually operated Caliber: .308 Win (7.62x51 NATO) Rifling: 4 grooves, right hand twist 1:11" Barrel Length: 660 mm Effective Range: 1000 m Accuracy: < 15 mm (standard deviation at 100 m) Overall Length: Buttstock folded 906 mm Buttstock open 1139 mm (+ 75 mm buttstock extended) Width (w/o bolt) Buttstock folded 85 mm Buttstock open 48 mm Sight radius: 727 mm Weight (weapon only): 7.01 kg Magazine Capacity: 10 rds, detachable Trigger Pull: 1.5 kg - 2.5 kg (fully adjustable w/o disassembly) Bolt configuration: 3 locking lugs, 60° opening angle **Operational Condition Data of Rifle** Shock resistance: 500 shocks of 15 g / 6 ms1 Vibration resistance: 10 Hz to 500 Hz at 1.04 g for 2 h, at 4.8 g for 30 min, Drop resistance: 1.5 m without accidental discharge, Operational temperature: - 30°C / +65°C, Storage temperature: - 30°C / +65°C (and 95% rel. humidity) for 72 h Barrel lifetime: > 6000 rounds, Permissible Maximum Pressure: 4773 bar

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

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### Shot Rubber Cartridge "38R-NG"



The cartridge is designed for law enforcement applications for defusing protest marches and disturbances and has a less lethal effect.

The cartridge is fired from 37 mm Launcher type gun.

### **Specifications**

Caliber mm	37/38
Cartridge case cap diameter, mm	43
Cartridge case bottom diameter, mm	39,5
Cartridge length, mm	123
Shot mass, g	2,2
Cartridge mass, g	130
Number of shots, pcs	24
Effective range, m	20÷30
Safe operating distance, m	20
Shelf life, y	5

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### Tear Gas Smoke Cartridge "38P-CSS"



The cartridge is designed for law enforcement applications for defusing protest marches and disturbances. It works by irritating mucous membranes in the eyes, nose and etc.

The product has a lachrymatory and irascible effect. The cartridge is fired from 37 mm Launcher type gun.

### **Specifications**

Caliber, mm	37/38
Cartridge case cap diameter, mm	43
Cartridge case bottom diameter, mm	39,5
Cartridge length, mm	156
Cartridge mass, g	182
Tear gas composition mass, g	60
Gas propagation time, sec	15÷30
Effective range, m	80÷130
Tear gas /smoke affected area, m <sup>2</sup>	400
Safe operating distance, m	80
Shelf life, y	5



### Chemical & Bacteriological Protective Suit



The chemical protective clothing is intended to shield or isolate individuals from the chemical, radioactive and biological hazards encountered during hazardous material operations, e.g. examination and reconnaissance of enemy deactivation means captured in the contaminated area as well deactivation of contaminated areas.

The suits are rated for operation in the ambient temperature range from -30°C to +50°C.



### 26 mm Signal Cartridges



26 mm signal cartridges are designed for illumination of an area and located in the vicinity objects. The cartridges are manufactured in red, green and yellow monochromatic colors and are used to provide communication between different army units.

The cartridges are intended for firing from 26 mm SPSH and SP-81 signal pistols.

### 26 mm Illumination Cartridges

Firing angle	45-50°
Firing range	120 m
Illumination time	7 s
Illumination radius	100 m
Diameter	26.6 mm
Height	80 mm
Mass	51 g

### Specifications

### 26 mm Signal Cartridges

Firing angle	85-90°
Firing range	90 m
Illumination time	6-7 s
Visibility range	10 km
Illumination	
intensity	50000 cd
Diameter	26.6 mm
Height	80 mm
Mass	45 g
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### 30 mm Signal Cartridges



30 mm signal cartridges are designed to provide visual communication between different army units as well as identification of disaster points.

### Specifications

Overall dimensions:

Diameter 32 mm

Height 80 mm

Visual range

Day 2 km

Night 10 km

Illumination time 9 s

Colour yellow, red, white



### 23x152 mm Round with API-T Projectile



The 23x152 Round with Armour-Piercing Incendiary Tracer Projectile is intended to engage air and ground targets.

The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions.

The ammunition is designed for use with guns 2A14, 2A14M, 2A7 and 2A7M of the following 23 mm air-defence gun mounts and their modifications:

- ZU-23-2
- ZSU-23-4 SHILKA

#### PACKING

84 rounds in three air-tight sealed metal boxes in a wooden case with dimensions 875x378x206 mm, Gross weight: 55 kg.

#### **BASIC CHARACTERISTICS**

Caliber	23x152 mm
Armour Penetration (at angle of hit 30° and range of 1200 m)	10 mm armour plate
Operational Temperature Range	-50 to +50°C
Shelf Life	15 years

### BALLISTIC DATA

Muzzle Velocity (max)	955 - 985 m/s
Average Pmax	2925 kg/cm <sup>2</sup>
Maximum range	2500 m
Maximum altitude	1500 m

### **ELEMENTS OF ROUND**

Projectile	Armour-Piercing Incendiary Tracer
Incendiary Composition	DU-5
Propellant	5/7 Cfl
Cartridge case	Steel
Percussion Primer	KV №3

### **TECHNICAL DATA**

Length of Round	234.36 – 237.16 mm	
Weight of Round	0.450 kg	
Weight of Projectile	0.190 kg	
Length of Projectile	99.3 mm	
Weight of cartridge case	0.172 kg	
Length of cartridge case	151.5 mm	
Propellant Charge Mass	0.077 kg	

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### 23x152 mm Round with Practice API-T Projectile



The 23x152 Round with Practice Armour-Piercing Incendiary Tracer Projectile is intended for drill firing and gun ballistic tests. The Round has the same ballistic characteristics as the API-T Rounds and is intended to replace them in target-practice firing.

The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions.

The ammunition is designed for use with guns 2A14, 2A14M, 2A7 and 2A7M of the following 23 mm air-defence gun mounts and their modifications:

- ZU-23-2
- ZSU-23-4 SHILKA

#### **BASIC CHARACTERISTICS**

# Caliber 23x152 mm Operating Temperature Range -50°C to +50°C Shelf Life 15 years

### **ELEMENTS OF ROUND**

Projectile	Practice Armour-Piercing Incendiary Tracer	
Propellant	5/7 Cfl	
Cartridge case	Steel	
Percussion Primer	KV №3	

#### PACKING

84 rounds in three air-tight sealed metal boxes in a wooden case with dimensions 875x378x206 mm, Gross weight: 55 kg.

### BALLISTIC DATA

Muzzle Velocity (max)	955 - 985 m/s
Average Pmax	2925 kg/cm <sup>2</sup>
Maximum range	2500 m
Maximum altitude	1500 m

### **TECHNICAL DATA**

Length of Round 234.36 - 237.16 r		
Weight of Round	0.450 kg	
Weight of Projectile	0.190 kg	
Length of Projectile	99.3 mm	
Weight of cartridge case	0.172 kg	
Length of cartridge case	151.5 mm	
Propellant Charge Mass	0.077 kg	



### 23x152 mm Round with HEI Projectile



The 23x152 Round with High Explosive Incendiary Projectile is intended to engage air and ground targets. The round is fitted with distance-armed, delayed action, self-destruct fuze.

The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions.

The ammunition is designed for use with guns 2A14, 2A14M, 2A7 and 2A7M of the following 23 mm air-defence gun mounts and their modifications:

- ZU-23-2
- ZSU-23-4 SHILKA

#### **BASIC CHARACTERISTICS**

Caliber	23x152 mm
Fuze Arming Distance	3 to 80 m
Self-destruction time	5 to 8 sec
Operational Temperature Range	-50 to +50°C
Shelf Life	15 years

### **BALLISTIC DATA**

Muzzle Velocity (max)	950 - 970 m/s
Probable Deviation	5 m/s
Average Pmax	2925 kg/cm <sup>2</sup>

### **ELEMENTS OF ROUND**

Projectile	High Explosive Incendiary
Fuze	MG-25, FDSD1, V-19UK, FDSD4
Explosive filing	A-IX-2 (RDX)
Propellant	5/7 Cfl
Cartridge case	Steel
Primer	KV №3

### **TECHNICAL DATA**

Length of Round (max)	234.28 – 237.12 mm
Weight of Round	0,435 kg
Weight of Projectile	0.183 kg
Propellant Charge Mass	0,077 kg

#### **PACKING**

84 rounds in three air-tight sealed metal boxes in a wooden case with dimensions 875x378x206 mm, Gross weight: 55 kg.

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### 23x152 mm Round with HEI-T Projectile



The 23x152 Round with High Explosive Incendiary Tracer Projectile is intended to engage air and ground targets.

The round is fitted with distance-armed, delayed action, self-destruct fuze.

The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions.

The ammunition is designed for use with guns 2A14, 2A14M, 2A7 and 2A7M of the following 23 mm air-defence gun mounts and their modifications:

- ZU-23-2
- ZSU-23-4 SHILKA

#### **BASIC CHARACTERISTICS**

Caliber	23x152 mm
Operational Temperature Range	-50 to +50°C
Shelf Life	15 years

#### **BALLISTIC DATA**

Muzzle Velocity (max)	970±10 m/s
Probable Deviation	8 m/s
Average Pmax	2925 kg/cm <sup>2</sup>

### **ELEMENTS OF ROUND**

Projectile	High Explosive Incendiary Tracer
Fuze	MG-25, FDSD1,V-19UK, FDSD4
Explosive filing	A-IX-2 (RDX)
Propellant	5/7 Cfl
Cartridge case	Steel
Primer	KV №3

### **TECHNICAL DATA**

Length of Round (max)	234.28 – 237.12 mm
Weight of Round	0,450 kg
Weight of Projectile	0.1885 kg
Propellant Charge Mass	0,077 kg

#### **PACKING**

84 rounds in three air-tight sealed metal boxes in a wooden case with dimensions 875x378x206 mm, Gross weight: 55 kg.



### 23x152 mm Round with Practice HEI-T Projectile



The 23x152 Round with Practice High Explosive Incendiary Tracer Projectile is intended for drill firing and gun ballistic tests. The Round has the same ballistic characteristics as the HEI-T Rounds and is intended to replace them in target-practice firing. The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions. The ammunition is designed for use with guns **2A14**, **2A14M**, **2A7** and **2A7M** of the following 23 mm air-defence gun mounts and their modifications:

- ZU-23-2
- ZSU-23-4 SHILKA

#### **BASIC CHARACTERISTICS**

Caliber	23x152 mm
Operational Temperature Range	-50 to +50°C
Shelf Life	15 years

### **BALLISTIC DATA**

Muzzle Velocity (max)	970±10 m/s
Probable Deviation	8 m/s
Average Pmax	2925 kg/cm <sup>2</sup>

#### **ELEMENTS OF ROUND**

Projectile	Practice High Explosive Incendiary Tracer	
Propellant	5/7 Cfl	
Cartridge case	Steel	
Primer	KV №3	

#### **TECHNICAL DATA**

Length of Round (max)	234.28 – 237.12 mm
Weight of Round	0,450 kg
Weight of Projectile	0.1885 kg
Propellant Charge Mass	0,077 kg

#### **PACKING**

84 rounds in three air-tight sealed metal boxes in a wooden case with dimensions 875x378x206 mm, Gross weight: 55 kg.

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### 23x152 mm Round with Practice HEI Projectile



The 23x152 Round with Practice High Explosive Incendiary Projectile is intended for drill firing and gun ballistic tests. The Round has the same ballistic characteristics as the HEI Rounds and is intended to replace them in target-practice firing. The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions. The ammunition is designed for use with guns 2A14, 2A14M, 2A7 and 2A7M of the following 23 mm air-defence gun mounts and their modifications:

- ZU-23-2
- ZSU-23-4 SHILKA

#### **BASIC CHARACTERISTICS**

Caliber	23x152 mm
Operating Temperature Range	-50°C to +50°C
Shelf Life	15 years

### **BALLISTIC DATA**

Muzzle Velocity (max)	950 - 970 m/s	
Probable Deviation	5 m/s	
Average Pmax	2925 kg/cm <sup>2</sup>	

### **ELEMENTS OF ROUND**

Projectile	Practice High Explosive Incendiary	TECHNICAL DATA
Fuze	Dummy	Length of Round (r
Propellant	5/7 Cfl	Weight of Round
Cartridge case	Steel	Weight of Projectile
Primer	KV №3	Propellant Charge

Length of Round (max)	234.28 – 237.12 mm	
Weight of Round	0,435 kg	
Weight of Projectile	0.183 kg	
Propellant Charge Mass	0,077 kg	

#### **PACKING**

84 rounds in three air-tight sealed metal boxes in a wooden case with dimensions 875x378x206 mm, Gross weight: 55 kg.



### Belts & Boxes for 14.5x114 mm Ammunition



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### Belts & Boxes for 12,7x108 mm Cartridges





### 30x29 mm Practice Grenade VOG-17M IN



The 30x29 mm Training Practice Grenade VOG-17M IN designed to be used for training of the army units, ensuring simulation of real combat firing. The VOG-17M IN round with overall dimensions, ballistic and weight characteristics corresponds to VOG-17M rounds.

The ammunition is intended to be fired from Automatic Grenade Launchers of following types:

- AGS-17;
- AG-17A;
- AGS-30;
- ARCUS-17 AGL.

#### **BASIC CHARACTERISTICS**

Caliber	30x29 mm
Maximum Firing Range	1700 m
Operational Temperature Range	-50°C to +50°C
Shelf Life	10 years

### **TECHNICAL DATA**

Length of Round	132 mm
Weight of Round Grenade	0,35 kg

#### **BALLISTIC DATA**

Muzzle velocity	185 m/s
Probable Deviation	2.5 m/s
Average Pressure (max)	1200 kg/cm² (122.5 MPa)

### **ELEMENTS OF GRENADE**

Fuze	Ballistik plug	
Explosive Filling	inert	
Cartridge case	steel	
Propellant	NBpl 14-10	
Primer	KVM-3	Et good to

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### 30x29 mm Grenade VOG-17M



The 30x29 mm High Explosive Round VOG-17M provides effective action against enemy troops in open terrain or in light shellets at distance of up to 1700 m. The round is fitted with distance-armed, self-destruct fuze. The ammunition is designed for use with automatic grenade launchers:

- AGS-17;
- AG-17A;
- AGS-30;
- ARCUS-17 AGL.

The round is safe in storage, handling and operation and ensures the reliable performance of the grenade launchers in all weather conditions.

#### **BASIC CHARACTERISTICS**

Caliber	30x29 mm
Maximum Firing Range	1700 m
Radius of Defeat	not less than 6 m
Operational Temperature Range	-50°C to +50°C
Shelf Life	10 years

### **TECHNICAL DATA**

Length of Round (max)	132 mm
Weight of Round Grenade	0,35 kg
Weight of Explosive Charge	0,032 kg

#### BALLISTIC DATA

Muzzle velocity	185 m/s
Probable Deviation	2.5 m/s
Average Pressure, max	1200 kg/cm² (122.5 MPa)

#### **ELEMENTS OF GRENADE**

Projectile	High Explosive	
Fuze	VMG-M	
Explosive Filling	A-IX-1 (RDX)	
Cartridge case	steel	
Propellant	NBpl 14-10	
Primer	KVM-3	

#### **FUZE**

Туре	Point Detonating, SQ action, Distance-Armed, Self-Destruct
Arming Distance	10 to 60 m
Self-destruction Time	28 to 36 sec



### Belts & Boxes for 30x29 mm Ammunition



Metal 30x29 mm ammunution belt string is designed for automatic grenade launcher AGS-17 (AGS-30).

The belt (index 6L12) consists of 10 interconnected metal links of "crab" type. The belt fractions are joined with a cartridge.

The belts are fed with cartridges by using a special machine (index 6YU13) or manually.

The life time of a cartridge belt ensures its no less than 16 times passing through the weapon's automatic system.

The belts are packed in boxes with capacity of 29 (30) grenades.

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### 30x29 mm Dummy Training Round VUS-17



### With the VUS-17:

- the trajectory flight and the target point are the same as with combat grenades fired one by one or in bursts from standard grenade launchers using standard sighting assets and manuals;
- higher visibility of the target point compared to the combat fragmentation grenade is ensured in poor conditions (snow, fog, hard terrain ets.), thanks to the red-orange smoke cloud;
- high training safety is ensured (the grenade includes no explosives);
- reliable operation against various types of obstacles including water and snow is ensured (the grenade carries the standard fuse);
- high degree of propelling charge, materials, and coatings unification with the combat grenade is ensured to provide no-flame firing, broad operating temperatures range, and extensive service life.

The 30x29 mm VUS-17 dummy training round is used for training of operators of the automatic grenade launchers. The ammunition is designed for use with the following grenade launchers:

- AGS-17;
- AG-17A;
- AGS-30;
- ARCUS-17 AGL

### **BASIC CHARACTERISTICS**

Caliber	30x29 mm
Maximum Firing Range	1700 m
Operational Temperature Range	-50°C to +50°C
Shelf Life	10 years

### **TECHNICAL DATA**

Length of Grenade	132 mm	1167
Weight of Grenade	0,35 kg	144

#### **BALLISTIC DATA**

Muzzle velocity	185 m/s
Probable Deviation	2.5 m/s
Average Pressure, max	1200 kg/cm² (122.5 MPa)

### **ELEMENTS OF GRENADE**

Fuze	VMG-M
Grenade Body	Steel
Propellant	NBpl 14-10
Primer	KVM-3



### IST-14,5 T Anti-Materiel Rifle



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com

### IST-14,5 T Anti-Materiel Rifle

### 14.5 mm ANTI-MATERIEL RIFLE CHARACTERISTICS ENSURE ITS EFFICIENT USE AGAINST:

- thin-skinned vehicles armored personnel carriers, infantry fighting vehicles (IFV), parked aircraft;
- engineering ammunition (mines) from the safe distance;
- command, control, communication & intelligense systems, gantries, space communications means, artillery and rocket systems, tank exterior equipment etc;
- enemy manpower both exposed, disguised under thin field cover.

The efficient recoil management system reduces the high velocity recoil making the system very user-friendly without tactical restrictions.

Caliber, mm	14,5 mm
Cartridge	14,5x114 mm
System of operation	Short recoil
Weight, (gun and scope, unloaded)	28 kg
Muzzle velocity	945 – 990 m/s with B-32 (API) 63.9 g projectile 1015 m/s with MDZ (Incendiary) 58,5 g rojectile
Sighting range	2 000 m
Overall length	2 256 mm
Barrel length	1 300 mm
Recoil Management	High efficiency muzzle brake with barrel spring and special spring buffer

Sighting	POSP 8x42D (2000) Telescopic Sight with dioptric adjustment and reticle illuminating system	
Feed System	5 round box type magazine	
Cartridges	14,5x114 mm Armour Piercing- Incendiary(API), Armour Piercing-Incendiary-Tracer (API-T), Incendiary and HE Incendiary bullets	
Mountings	Adjustable, bipod and adjustable mono-pod at rear	
Portability Weapon system transport and storage box		
Backpacks	1x receiver man pack and 1x barrel assembly and accessories man pack	



### 107 mm Multi Barrel Rocket Launcher

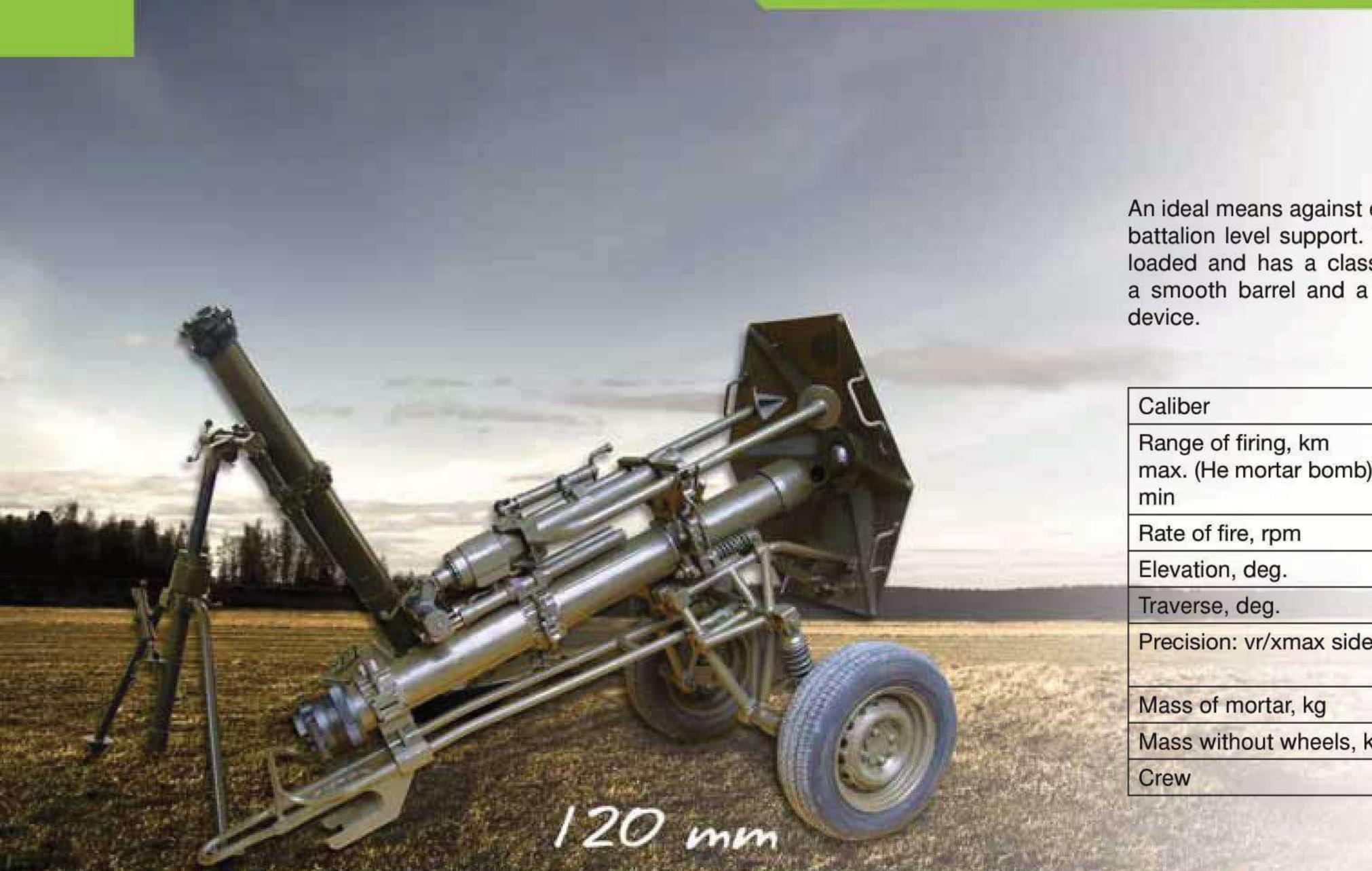


Multi Barrel Rocket Launcher (MBRL) is a lightweight and towed weapon system used by artillery and infantry support missions during day and night, and in all weather conditions. The system can be easily disassembled with basic hand tools and carried to mountainous regions.

Diameter	107 mm
Number of Tubes	12
Tube Length	880 mm
Ripple Fire Duration (12 rockets)	7 – 9 sec
Elevation	0 – 60.0 (0 – 1066 mils)
Deflection	±15.0 (±266 mils)
Weight:	
Unloaded	385 kg
Loaded with 12 rockets	620 kg
Gun Laying	With handwheels and
	panoramic telescope
Crew	4

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### 120 mm Wheeled Mortar



An ideal means against enemy personnel and a battalion level support. The weapon is muzzle loaded and has a classic mortar design with a smooth barrel and a double loading safety

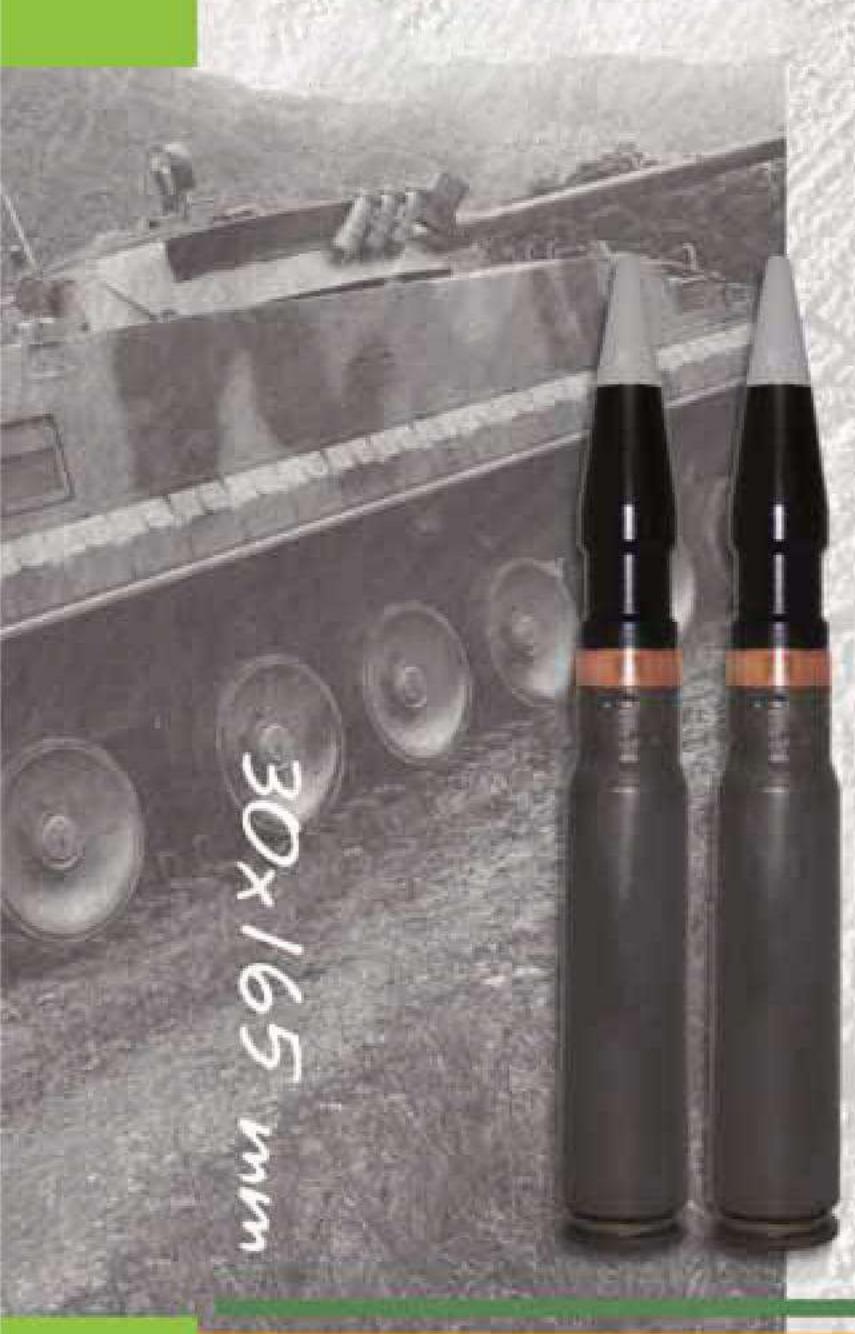
Caliber	120 mm
Range of firing, km max. (He mortar bomb) min	7.1 0.5
Rate of fire, rpm	15
Elevation, deg.	+4580
Traverse, deg.	+ 5
Precision: vr/xmax side v,m	1/250 12.8
Mass of mortar, kg	305
Mass without wheels, kg	215
Crew	3 persons

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### 30x165 mm Round with HE-T Projectile



The 30x165 Round with High Explosive Tracer Projectile is intended to engage air and ground targets. The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions.

The automatic guns 2A42, 2A38, 2A72 and modifications are mounted on the following carriers:

- Infantry Fighting Vehicles BMP-2, BMP-3, BMD-2, BMD-3, BTR-80A and their modifications
- Reconnaissance Vehicle "RIS"
- Air-Defence Complex "Tunguska"
- Attack Helicopters Ka-50 and Mi-28 and modifications

#### **BASIC CHARACTERISTICS**

Caliber	30x165 mm
Fuze Arming Distance	20 to 100 m
Self-destruction time	7.5 to 14.5 sec
Operational Temperature Range	-50 to +50°C
Shelf Life	15 years

#### ELEMENTS OF ROUND

Projectile	High Explosive Tracer
Fuze	A-670M
Explosive filing	A-IX-2 (RDX)
Propellant	6/7 P-5BPfl
Cartridge case	Steel
Primer	KV-30, KV-3-1

### BALLISTIC DATA

Muzzle Velocity (max)	950 - 970 m/s
Probable Deviation	5 m/s
Average Pmax	3600 kg/cm <sup>2</sup>

#### **TECHNICAL DATA**

Length of Round (max)	292 mm
Weight of Round	0.826 kg
Weight of Projectile	0.385 kg
Propellant Charge Mass	0.122 kg
Burning Time of Tracer	not less than 10 sec

#### **PACKING**

STANDARD: 54 rounds in three air-sealed metal boxes in a wooden case with dimensions 860x380x220 mm. Gross weight: 61 kg.

OPTIONAL: 25 linked rounds in one metal box with dimensions 420x245x340 mm, Gross weight: 37 kg.

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### 30x165 mm Round with Practice HE-T Projectile



The 30x165 Round with Practice High Explosive Tracer Projectile is intended for practice firing. The projectile is inert and contains no explosive. The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions. The automatic guns 2A42, 2A38, 2A72 and modifications are mounted on the following carriers:

- Infantry Fighting Vehicles BMP-2, BMP-3, BMD-2, BMD-3, BTR-80A and their modifications
- Reconnaissance Vehicle "RIS"
- Air-Defence Complex "Tunguska"
- Attack Helicopters Ka-50 and Mi-28 and modifications

#### **BASIC CHARACTERISTICS**

Caliber	30x165 mm	
Operational Temperature Range	-50 to +50°C	
Shelf Life	15 years	

### **ELEMENTS OF ROUND**

Projectile	Practice High Explosive Tracer
Fuze	Dummy
Explosive filing	Inert sulfur mixture
Propellant	6/7 P-5BPfl
Cartridge case	Steel
Primer	KV-30, KV-3-1

### **BALLISTIC DATA**

Muzzle Velocity (max)	950 - 970 m/s	
Probable Deviation	5 m/s	
Average Pmax	3600 kg/cm <sup>2</sup>	

#### TECHNICAL DATA

Length of Round (max)	292 mm
Weight of Round	0.826 kg
Weight of Projectile	0.385 kg
Propellant Charge Mass	0.122 kg
Burning Time of Tracer	not less than 10 sec

#### **PACKING**

STANDARD: 54 rounds in three air-sealed metal boxes in a wooden case with dimensions 860x380x220 mm, Gross weight: 61 kg. OPTIONAL: 25 linked rounds in one metal box with dimensions 420x245x340 mm, Gross weight: 37 kg.



### 30x165 mm Round with Practice HEI Projectile



The 30x165 Round with Practice High Explosive Incendiary Projectile is intended for practice firing. The projectile is inert and contains no explosive.

The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions.

The automatic guns 2A42, 2A38, 2A72 and modifications are mounted on the following carriers:

- Infantry Fighting Vehicles BMP-2, BMP-3, BMD-2, BMD-3, BTR-80A and their modifications
- Reconnaissance Vehicle "RIS"
- Air-Defence Complex "Tunguska"
- Attack Helicopters Ka-50 and Mi-28 and modifications

### **BASIC CHARACTERISTICS**

Caliber	30x165 mm	
Operational Temperature Range	-50 to +50°C	
Shelf Life	15 years	

### **BALLISTIC DATA**

Muzzle Velocity (max)	950 - 970 m/s	
Probable Deviation	5 m/s	
Average Pmax	3600 kg/cm <sup>2</sup>	

### **ELEMENTS OF ROUND**

Projectile	Practice High Explosive Incendiary
Fuze	Dummy
Explosive filing	Sulfur Mixture
Propellant	6/7 P-5BPfl
Cartridge case	Steel
Primer	KV-30, KV-3-1

### **TECHNICAL DATA**

Length of Round (max)	293 mm
Weight of Round	0,833 kg
Weight of Projectile	0.389 kg
Propellant Charge Mass	0,123 kg

### 30x165 mm Round with AP-T Projectile



The 30x165 Round with Aromour Piercing Tracer Projectile is intended to engage air and ground targets. The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions.

The automatic guns 2A42, 2A38, 2A72 and modifications are mounted on the following carriers:

- Infantry Fighting Vehicles BMP-2, BMP-3, BMD-2, BMD-3, BTR-80A and their modifications
- Reconnaissance Vehicle "RIS"
- Air-Defence Complex "Tunguska"
- Attack Helicopters Ka-50 and Mi-28 and modifications

#### BASIC CHARACTERISTICS

Caliber	
Armour Penetration	Wayse.
(at angle of hit 60°) at range of 500 m	22 mm
at range of 1000 m	18 mm 14 mm
at range of 1500 m	
Operational Temperature Range	-50 to +50°C
Shelf Life	15 years

#### **TECHNICAL DATA**

Length of Round (max)	293 mm
Weight of Round	0.853 kg
Weight of Projectile	0.400 kg
Propellant Charge Mass	0.127 kg
Burning Time of Tracer not less than 3.5	

#### **BALLISTIC DATA**

Muzzle Velocity (max)	960 - 980 m/s	
Probable Deviation	5 m/s	
Average Pmax	3600 kg/cm <sup>2</sup>	

#### **ELEMENTS OF ROUND**

Projectile	Armour-Piercing Tracer	
Propellant	6/7 P-5BPfl	
Cartridge case	Steel	
Primer	KV-30, KV-3-1	

#### **PACKING**

STANDARD: 54 rounds in three air-sealed metal boxes in a wooden case with dimensions 860x380x220 mm, Gross weight: 61 kg.

OPTIONAL: 25 linked rounds in one metal box with dimensions 420x245x340 mm, Gross weight: 37 kg.



# 30x165 mm Round with Practice AP-T Projectile



The 30x165 Round with Practice Armour Piercing Tracer Projectile is intended for practice firing. The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions.

The automatic guns 2A42, 2A38, 2A72 and modifications are mounted on the following carriers:

- Infantry Fighting Vehicles BMP-2, BMP-3, BMD-2, BMD-3, BTR-80A and their modifications
- Reconnaissance Vehicle "RIS"
- Air-Defence Complex "Tunguska"
- Attack Helicopters Ka-50 and Mi-28 and modifications

#### **BASIC CHARACTERISTICS**

Caliber	30x165 mm
Operational Temperature Range	-50 to +50°C
Shelf Life	15 years

### **BALLISTIC DATA**

Muzzle Velocity (max)	960 - 980 m/s
Probable Deviation	5 m/s
Average Pmax	3600 kg/cm <sup>2</sup>

#### **ELEMENTS OF ROUND**

Projectile	Practice Armour Piercing Tracer
Propellant	6/7 P-5BPfl
Cartridge case	Steel
Primer	KV-30, KV-3-1

### **TECHNICAL DATA**

Length of Round (max)	293 mm
Weight of Round	0.853 kg
Weight of Projectile	0.400 kg
Propellant Charge Mass	0.127 kg
Burning Time of Tracer	not less than 3.5 sec

### **PACKING**

STANDARD: 54 rounds in three air-sealed metal boxes in a wooden case with dimensions 860x380x220 mm, Gross weight: 61 kg. OPTIONAL: 25 linked rounds in one metal box with dimensions 420x245x340 mm, Gross weight: 37 kg.

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

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### 30x165 mm Round with HEI Projectile



The 30x165 Round with High Explosive Incendiary Projectile is intended to engage air and ground targets. The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions.

The automatic guns 2A42, 2A38, 2A72 and modifications are mounted on the following carriers:

- Infantry Fighting Vehicles BMP-2, BMP-3, BMD-2, BMD-3, BTR-80A and their modifications
- Reconnaissance Vehicle "RIS"
- Air-Defence Complex "Tunguska"
- Attack Helicopters Ka-50 and Mi-28 and modifications

#### **BASIC CHARACTERISTICS**

Caliber	30x165 mm
Fuze Arming Distance	20 to 100 m
Self-destruction time	7.5 to 14.5 sec
Shelf Life	15 years

#### **ELEMENTS OF ROUND**

Projectile	High Explosive Incendiary
Fuze	A-670M
Explosive filing	A-IX-2 (RDX)
Propellant	6/7 P-5BPfl
Cartridge case	Steel
Primer	KV-30, KV-3-1

#### **BALLISTIC DATA**

Muzzle Velocity (max)	950 - 970 m/s
Probable Deviation	5 m/s
Average Pmax	3600 kg/cm <sup>2</sup>

#### **TECHNICAL DATA**

Length of Round (max)	293 mm
Weight of Round	0,833 kg
Weight of Projectile	0.389 kg
Propellant Charge Mass	0,123 kg

#### PACKING

STANDARD: 54 rounds in three air-sealed metal boxes in a wooden case with dimensions 860x380x220 mm, Gross weight: 61 kg.

OPTIONAL: 25 linked rounds in one metal box with dimensions 420x245x340 mm, Gross weight: 37 kg.



### 60 mm Long Range Mortar 20N6MT

Long range weapon for the infantry platoon and company.

Can be used in all types of terrain. Operated by one or two men.

Sighting system, enabling accurate alignment & elevation, incorporates firing range table. Fixed pin, causing firing immediately upon loading.

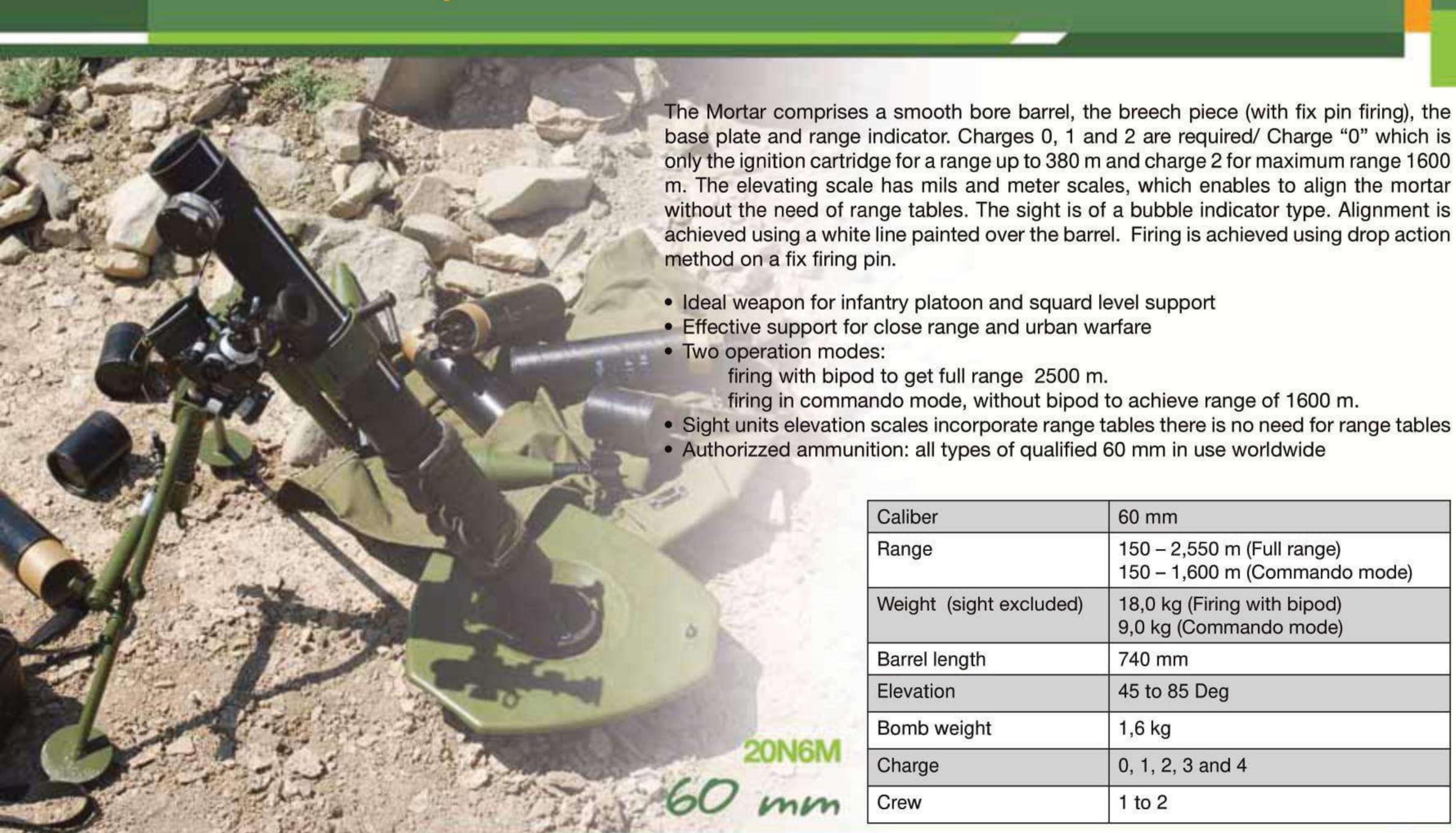
### **Specifications**

60 mm
4000 m
18 kg
940 mm
45 to 85 deg
1,8 kg
0, 1, 2, 4 and 6
20 r.p.m.

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

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### 60 mm Dual Purpose Mortar





# 60 mm Commando Mortar



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# 60 mm Commando Mortar



The Mortar comprises a smooth bore barrel, the breech piece (with fix pin firing), the base plate and range indicator. Charges 0, 1 and 2 are required. Charge "0" which is only the ignition cartridge for a range up to 380 m and charge 2 for maximum range 1600 m. The elevating scale has mils and meter scales, which enables to align the mortar without the need of range tables. The sight is of a bubble indicator type. Alignment is achieved using a white line painted over the barrel. Firing is achieved using drop action method on a fix firing pin.

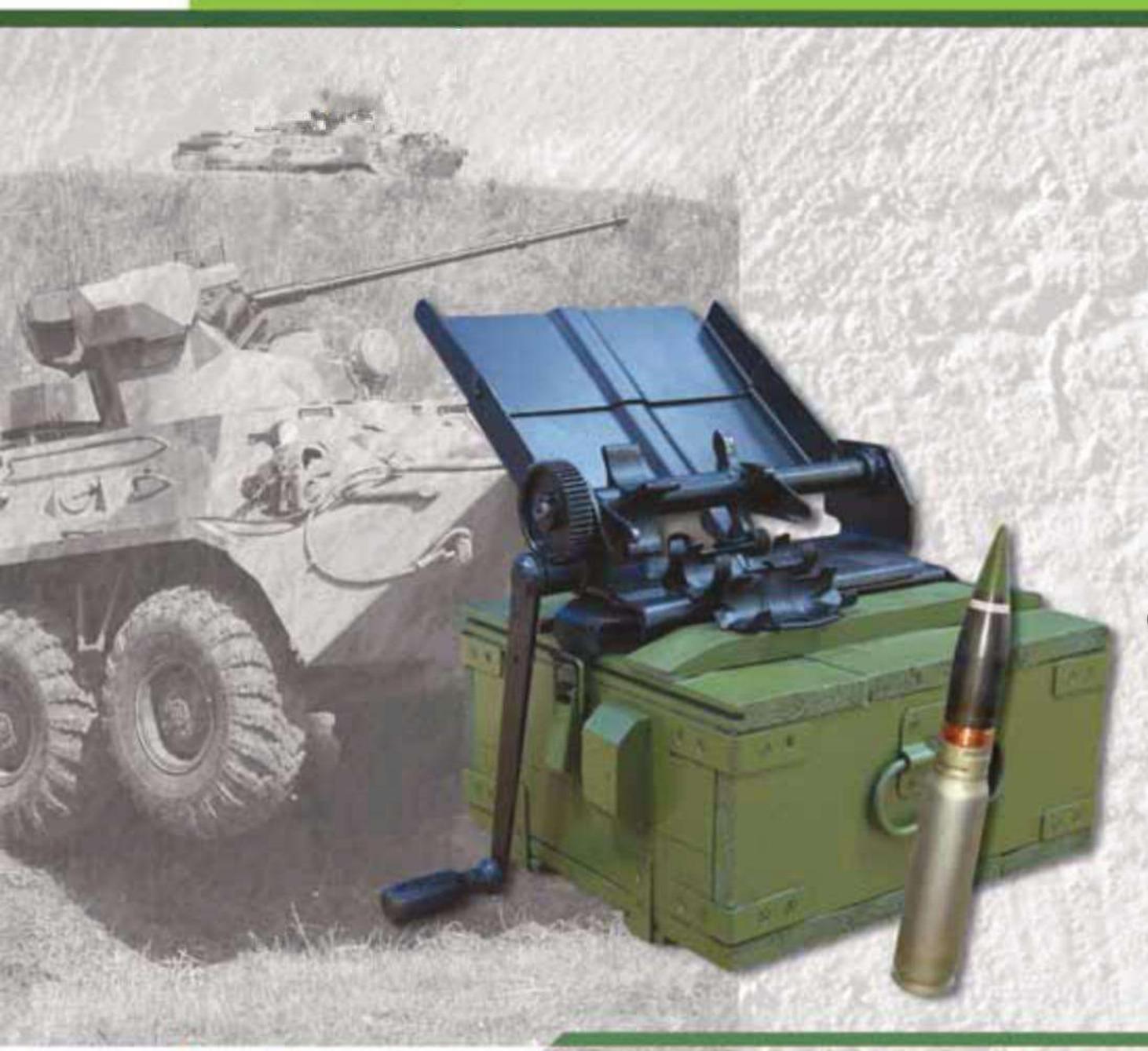
Caliber	60 mm
Range	1600 m
Weight	8 kg
Total length	675 mm
Elevation	45 to 85 Deg
Bomb weight	1,6 kg
Charge	0,1 and 2
Rate of fire	20 R.P.M.

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

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# Linking Machines for 30x165 mm Ammunition



Manually operated Linking Machine is intended for linking 30x165 mm Cartridges for 2A42, 2A72 and **GSh-30** Automatic Guns. The machine may be mounted on its packing or on the table.

# Specifications

Ammunition 30x165 mm Rounds

Used with systems 2A42, 2A38, 2A72, GSh-30,

GSh-301 Automatic Guns

Operation Manual

Output / cartridges per minute 50

Machine dimensions, mm 420x350x260

Packing in Wooden case

Case dimensions, mm 430x350x230

Net weight, kg 6.3 Gross weight, kg 11.8



# Linking Machines for 30x29 mm Ammunition



Manually operated Linking Machine is intended for linking 30x29 mm grenades for AGS-17, **AGS-30** and **ARCUS** 17AGL. The machine may be mounted on its packing or on the table.

## Specifications

Ammunition 30x29 mm (VOG-17M, VUS-17) Grenades

Used with systems AGS-17, AGS-30, ARCUS 17

Automatic Grenade Launcher

Operation Manual

Output / cartridges per minutes 60

Machine dimensions, mm 540x360x500

Packing in Wooden case

Case dimensions, mm 540x320x270

Net weight, kg 9,5

Gross weight, kg 22

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com







The 40x46 mm HE Round M99 are intended to destroy enemy's personnel, transport means and light armoured materiels at distance up to 400 m.

# **Specifications**

Calibre (mm)	40
Round mass (g)	245
Grenade mass (g)	192
Explosive mass (g)	48
Round length (mm)	max 104.5
Muzzle velocity (m/s)	78
Fuze arming distance (m)	14-27
Precision on vertical target at the distance of 100 m (m)	V <sub>p</sub> ≤0.25 V <sub>v</sub> ≤0.35
Max range (m)	400
Lethal radius	≥5
Operating temperature (°C)	-42 - +63
Weapon compartibility	M203, M79, MGL MK1, HK69A1, F2000 or other similar weapons

# 40x46 mm Smoke Round M99



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# Tactical & Assault Body Armor



Tactical body armor is designed for maximum protection in high threat zones. This ballistic system benefits from

- A large area of ballistic and fragmentation protection including shoulders, collar, and throat
- A modular loading system allowing customisation with pouches and other modular equipment.
- Rifle plate pockets front and rear which can be upgraded using Hard Armour Plates
- Quick release blast belt

The system inside is made up of soft armour panels and a hard armour panel in front and rear. This enables the protection of the vest to include shots from such rifles as an AK47.

# **Specifications**

The Tactical body armor is available in a range of colours, and sizes to suit individual requirements. Adjustments around the waist allows for a unique fit tailored to the users shape, providing outstanding comfort, improving wearability and usability.

### **Features**

- NIJ level IIIA (3A) Soft Armour Panels
- Front, back, side, collar and shoulder protection
- Flexible and thin moulding to the bodies shape
- Lightweight material heat sealed in a water proof bag

# Armored Jacket



The body armor vest is a personal protection wear. The set consists of:

- a) folding collar for the neck
- b) removable side safety elements

# **Specifications**

The vests are produced in 3 sizes: 50-52, 52-56, 58-60 body, 170, 188, height. Total weight of 2 armored plates, kg:

1. 10,0±0,5

2. 10,5±0,5 3. 11,0±0,5

Protection area of the armored plates, dm<sup>2</sup> Protection area of the armored vests, dm<sup>2</sup>:

15

1. 44

2. 50

3. 56

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# 5.45 mm Kalashnikov Assault Rifles AK74M



The AK74M Kalashnikov assault rifles are chambered for 5.45x39 mm round and have folding buttstocks. Forearm, magazine, buttstock and pistol grip are made of high strength plastic. Protective coatings ensure excellent corrosion resistance of metal parts. There is a dove-tail side rail for optical and night sights. The design of the AK74M makes it possible to attach an underbarrel grenade launcher or a knife-bayonet. Muzzle brake provides for cyclic fire accuracy and further reduces muzzle climb and burst recoil.

# **Specifications**

Cartridge, mm	5.45x39
Muzzle velocity, m/s	900
Sighting range, m	1000
Cyclic rate of fire, rounds/min	650
Combat rate of fire, rounds/min single shot fire short burst fire	40 100
Fire control	Semi auto, full auto
Weight, kg rifle with loaded magazine rifle with empty magazine	3.9 3.6
Overall length, mm - with folded buttstock	943 705
Barrel length, mm	415
Magazine capacity, rounds	30

# Silencer



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# 82 mm HE Mortar Bomb



The 82 mm High-Explosive Mortar Bomb is intended to engage troops, shelters and light-armoured targets. The ammunition is intended for use with 82 mm smooth-bore mortars, including:

Mod 1937; 1941; 1943

2B14 "PODNOS"

20N5

2B9 "VASILEK"

The ammunition is safe in storage and handling and ensures the reliable performance of the mortar system in all weather conditions.

Caliber	82 mm
Maximum range: with increment charges with long range charge	3 000 m 4 500 m
Operating Temperature Range	-50°C to +50°C
Shelf Life	10

Muzzle Velocity (max)	211 m/s
Maximum pressure	450 kg/cm <sup>2</sup>

Length of Mortar Bomb (fuzed)	332.5 mm
Weight of Mortar Bomb (fuzed)	3.1 kg
Weight of Explosive Charge	0.454 kg

Fuze	M-6	
Body	Cast iron	
Explosive Filling	TNT or TD-42	
Number of Charges	1+3 Increment or long range charges	

# 82 mm Practice Mortar Bomb



The 82 mm Practice Mortar Bomb is intended for training. The ammunition is designed for use with 82 mm smooth-bore mortars, including:

- Mod 1937; 1941; 1943
- 2B14 "PODNOS"
- 2B9 "VASILEK"

The ammunition is safe in storage and handling and ensures the reliable performance of the mortar system in all weather conditions.

### **BASIC CHARACTERISTICS**

Caliber	82 mm
Maximum range with increment charges with long range charge	3 000 m 4 500 m
Operating Temperature Range	-50°C to +50°C
Shelf Life	10

### **ELEMENTS OF MORTAR BOMB**

Fuze	Dummy
Body	Cast iron
Number of Charges	1+3 Increment or long range charges

### TECHNICAL DATA

Length of Mortar Bomb		300 mm	
	Weight of Mortar Bomb	1.6±0,005 kg	

### **BALLISTIC DATA**

Muzzle Velocity (max)	211 m/s
Maximum pressure	450 kg/cm <sup>2</sup>

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# 60 mm HE Mortar Bomb



The 60 mm High-Explosive Mortar Bomb is intended for engagement of troops in open or in light shelters.

The ammunition is designed for use with the 60 mm smooth-bore mortars meeting NATO standards, including:

- M2
- M19
- M224
- Hirtenberger "Commando"
- C-08 and C-576

The ammunition is safe in storage and handling and ensures the reliable performance of the mortar system in all weather conditions.

### **BASIC CHARACTERISTICS**

Caliber	60 mm
Maximum range	3200 m
Operating Temperature Range	-50°C to +50°C
Shelf Life	10 years

### **ELEMENTS OF MORTAR BOMB**

Fuze	M-6H or AZ111A2
Body	Cast iron
Explosive Filling	TNT
Number of Charges	1+4 Increment charges

### TECHNICAL DATA

Length of Mortar Bomb (fuzed)	300 mm
Weight of Mortar Bomb (fuzed)	1.6±0,005 kg
Weight of Explosive Charge	0.2 kg

### **BALLISTIC DATA**

Muzzle Velocity (max)	195±5 m/s
Maximum pressure	441kg/cm <sup>2</sup>

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA



# 60 mm Practice Mortar Bomb



The 60 mm Practice Mortar Bomb is intended for training. The ammunition is designed for use with the 60 mm smooth-bore mortars meeting NATO standards, including:

- M2
- M19
- M224
- Hirtenberger "Commando"
- C-08 and C-576

The ammunition is safe in storage and handling and ensures the reliable performance of the mortar system in all weather conditions.

### **BASIC CHARACTERISTICS**

# Caliber 60 mm Maximum range 3200 m Operating Temperature Range -50°C to +50°C Shelf Life 10

### **ELEMENTS OF MORTAR BOMB**

Fuze	Dummy
Body	Cast iron
Number of Charges	1+4 Increment charges

### TECHNICAL DATA

Length of Mortar Bomb	300 mm
Weight of Mortar Bomb	1.6±0,005 kg

### **BALLISTIC DATA**

Muzzle Velocity (max)	195±5 m/s
Maximum pressure	441kg/cm <sup>2</sup>

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# 120 mm HE Mortar Bomb



The 120 mm High-Explosive Mortar Bomb is intended to engage troops, shelters and light-armoured targets. The ammunition is designed for use with 120 mm smoothbore mortars meeting NATO standards, including:

- Mod. 1938
- Mod. 1943
- 2S12 "SANI"
- 2S9 "NONA"

The ammunition is safe in storage and handling and ensures the reliable performance of the mortar system in all weather conditions.

### **BASIC CHARACTERISTICS**

Caliber	120 mm
Maximum range with increment charges with long range charge	5 800 m 7 100 m
Operating Temperature Range	-50°C to +50°C
Shelf Life	10

### **ELEMENTS OF MORTAR BOMB**

Fuze	M-12
Body	Cast iron
Explosive Filling	TD-50
Number of Charges	1+6 Increment or long range charges

### TECHNICAL DATA

Length of Mortar Bomb (fuzed)	673 mm
Weight of Mortar Bomb (fuzed)	16.1 kg
Weight of Explosive Charge	1.36 kg

### **BALLISTIC DATA**

Muzzle Velocity (max)	272 m/s
Maximum pressure	1300 kg/cm <sup>2</sup>

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA



# 120 mm Practice Mortar Bomb



The 120 mm Practice Mortar Bomb is intended for training. The ammunition is designed for use with 120 mm smoothbore mortars meeting NATO standards, including:

Mod. 1938

2S9 "NONA"

Mod. 1943

2S12 "SANI"

The ammunition is safe in storage and handling and ensures the reliable performance of the mortar system in all weather conditions.

### **BASIC CHARACTERISTICS**

Caliber	
Maximum range with increment charges with long range charge	5 800 m 7 100 m
Operating Temperature Range	-50°C to +50°C
Shelf Life	10

### **TECHNICAL DATA**

Length of Mortar Bomb (fuzed)	673 mm
Weight of Mortar Bomb	16.1 kg

### **ELEMENTS OF MORTAR BOMB**

Fuze	Dummy
Body	Cast iron
Number of Charges	1+6 Increment or long range charges

### **BALLISTIC DATA**

Muzzle Velocity (max)	272 m/s
Maximum pressure	1030 kg/cm <sup>2</sup>

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# 9x19 mm Semiautomatic Pistols ZAFAR P



Caliber, mm 9x19

Sighting range, m 50

Magazine capacity, ctg 15, 17, 20

Safety System Safety lever from both sides,

blocks a firing pin & slide and

decocks the hammer

Action Semiautomatic, short recoil

Sights Front & adjustable

Muzzle velocity, m/s 340±10

Mass with empty magazine, g 595

Overall dimensions:

Length, mm 174

Height, mm 127

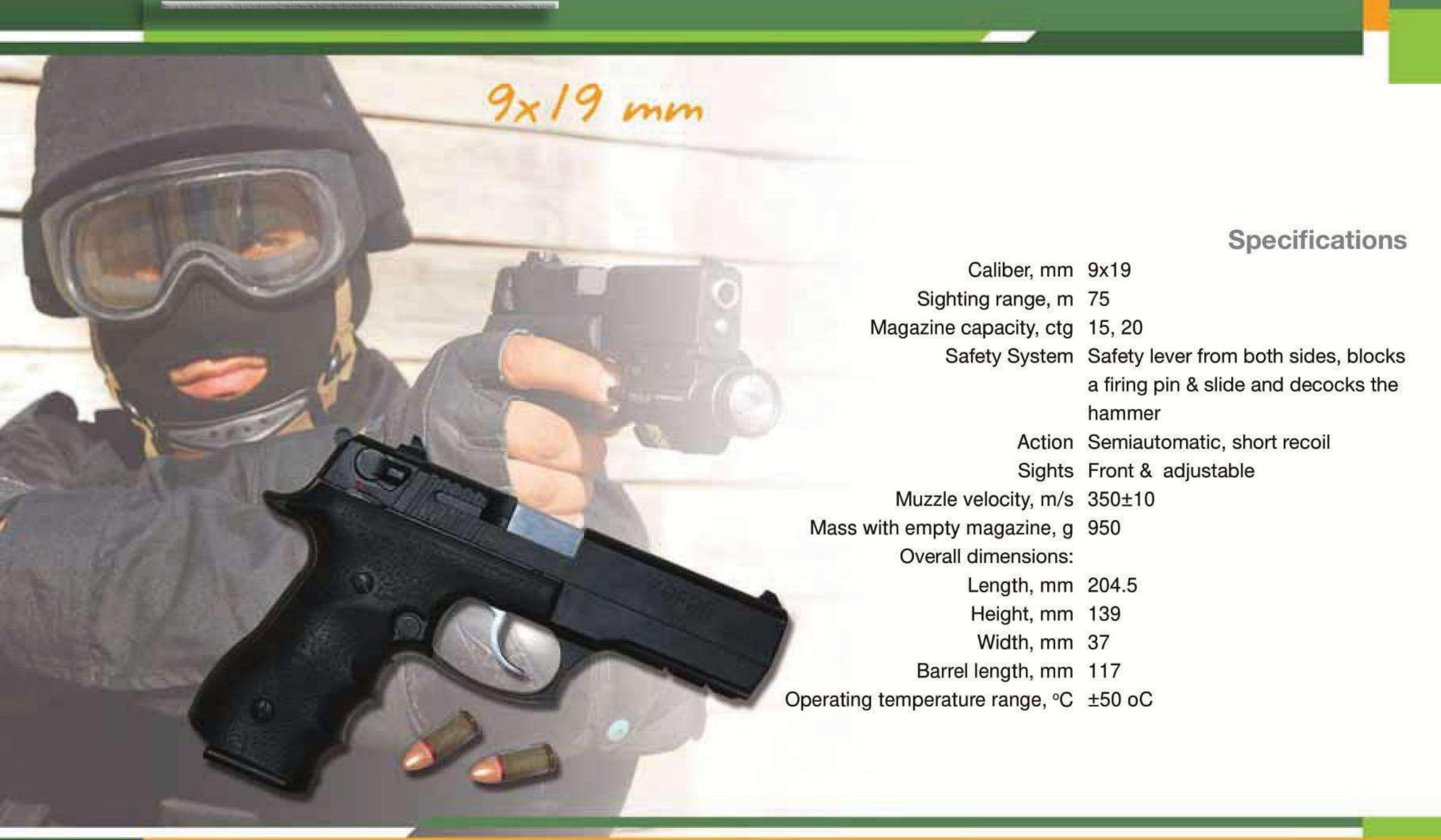
Width, mm 30

Barrel length, mm 102

Operating temperature range, °C ±50 oC



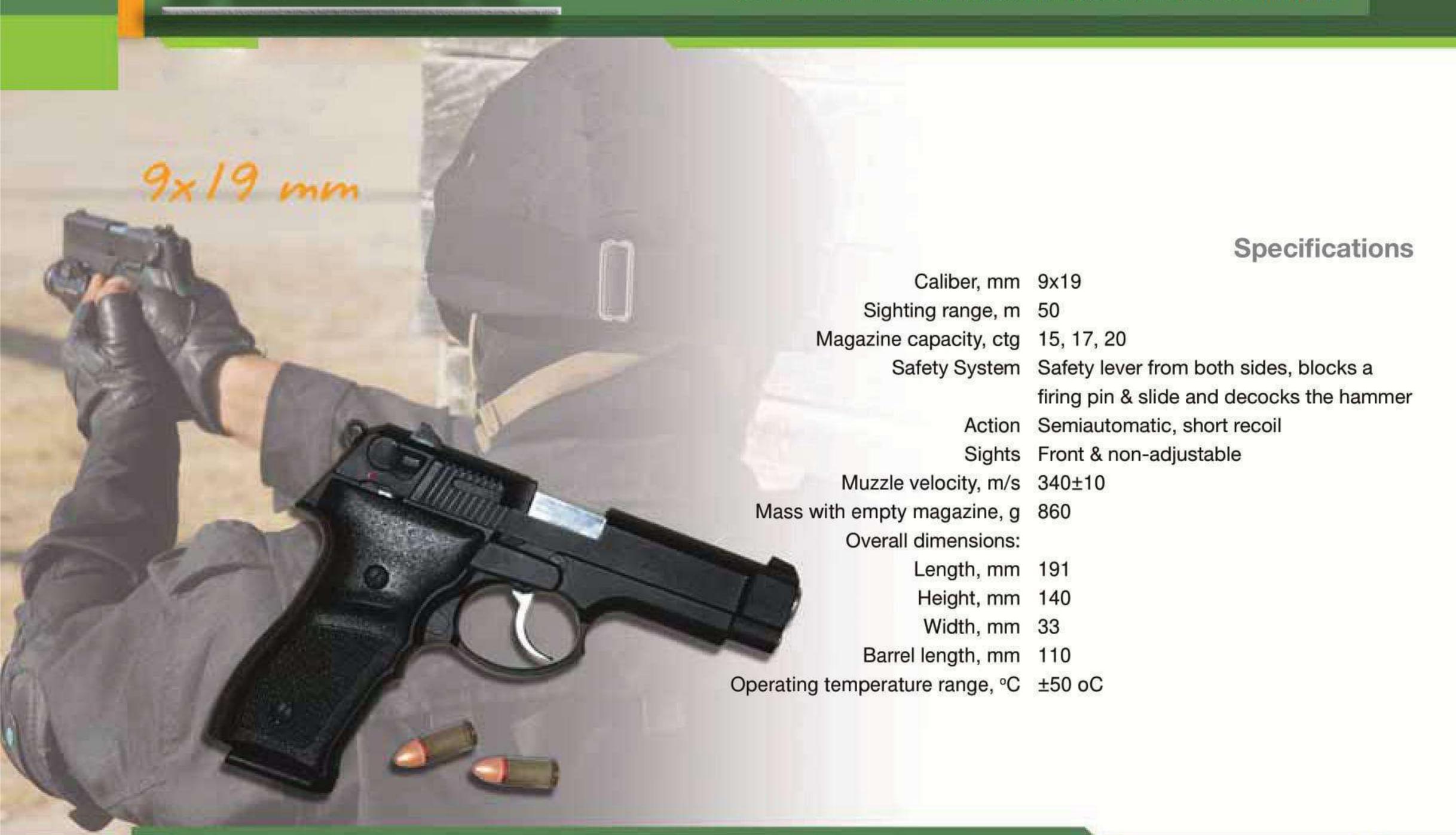
# 9x19 mm Semiautomatic Pistols Zafar



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

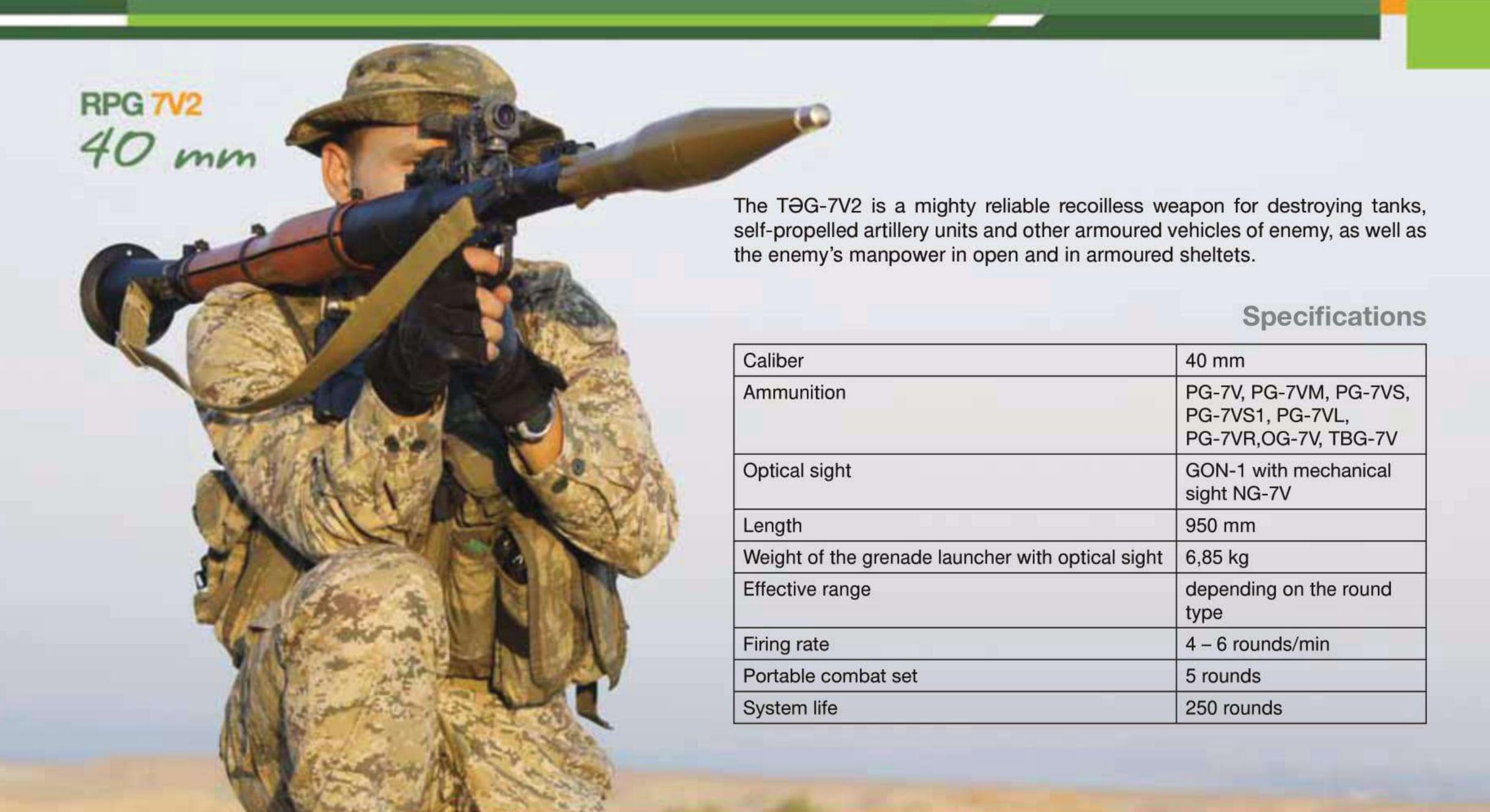


# 9x19 mm Semiautomatic Pistols Inam



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com

# 40 mm Light Anti-tank Grenade Launcher TƏG-7V2





# 7.62x54 mm Tank Machine Gun



The 7.62x54 mm Tank Machine Gun is a powerful automatic weapon designed to be mounted on tanks and fighting armoured vehicles.

The system automation operates on the driving forces of propellant gases diverted through a vent in the barrel.

Caliber, mm	7.62
Cartridge	7.62x54
Fire mode	Automatic
Rate of fire, rounds/min	700 - 800
Practical rate, rounds/min	250 max
Muzzle velocity, m/s	825
Maximum effective firing range, m	3800
Sighting range, m	1500 - 2200
Ammunition box capacity, rounds	100, 200

Barrel length, mm	722
Overall length, mm	1098
Weight without ammunition box, kg	10.5
Weight of loaded ammunition box with loaded 250 round metal belt, kg	9.4
System life, rounds	25 000
Principle of function	Gas operated
Cartridges	7.62x54 mm Ordinary bullets, Armour Piercing-Incendiary (API) and Tracer bullets.

# 20N5 82 mm Mortar



- Ammunition: 82 mm frag, smoke, illuminating and target practice mortar bomb
- Optical sight providing airming in elevation or traverse
- Crew of 4 persons
- High rate of fire: 24 rounds per minute
- Stripping into man-pack components, easy to carry on crossed terrain
- Low weight: 47 kg
- Stripping into light man-pack components, easy to carry on crossed terrain by crew of 4 people
- Optional safety mechanizm preventing from double loading

Caliber	82 mm
Maximum range of fire	5400 m
Minimum range of fire	91 m
Muzzle velocity	220 m/s
Mortar weight in combat position	47,0 kg
Barrel length	1100 mm
Elevation range	45 to 85 deg
Traverse angle	6 deg.
Bomb weight	3,1 kg
Charge	0, 1, 2, 3 and 4
Crew	4 persons



# GFAB-100 High-Explosive /Fragmentation Bomb



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

# 50 & 100 kg Practice Aircraft Bomb



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

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# Smoke Puff Charge



The Smoke-puff charge is designed for training soldiers in tracing detonation site of simulated artillery ammunition during military training.

# **Specifications**

Actuation time, sec. 8,5±1

Range of audibility, km 2 (max)

Safe radius, m 10 (min)

Overall dimensions:

diameter, mm 33-2

height, mm 70±2

Mass, g 54 ±2

# Electric Smoke Puff Charge



The Smoke-puff charge is designed for training soldiers in tracing detonation site of simulated artillery ammunition during military training.

# **Specifications**

Sonic bang altitude, m 45-65

Range of audibility, km 2 (max)

Safe radius, m 30

Overall dimensions:

diameter, mm 64

height, mm 150 (max)

Mass, g 415 ±10



# **IM-82/120 Simulation Cartridges**



The Cartridges IM-82 are designed for training soldiers in tracing detonation site and effective sonic bang from detonation of simulated 82 mm mortar bombs during military training.

Effective sonic bang from

detonation of 82 mm mortar bomb

Safe range from detonation site, m 50 (min)

Overall dimensions:

diameter, mm 43

height, mm 82±2

Mass, g 140

# **IM-120 Simulation Cartridges**

The Cartridges IM-120 are designed for training soldiers in tracing detonation site and effective sonic bang from detonation of simulated 120 mm mortar bombs during military training.

Effective sonic bang from

explosion of 120 mm mortar bomb

Safety range from explosion site, m 50 (min)

Overall dimensions:

diameter, mm 43

height, mm 140 ±1

Mass, g 236 ±3

# "SHIRAS-M" Artillery Ammunition Explosion Simulation Cartridge



"SHIRAS-M" simulation cartridge is designed for training of air and artillery reconnaissance crew.

# **Specifications**

Safety range from explosion site, m 25 (min)

Overall dimensions:

diameter, mm 43

height, mm 82±1

Mass, g 145 (max)

# 40 mm Round GG-7A with Fragmentation Grenade



Round GG-7A is designed for destroying the enemy manpower and weapon positions in the open, in trenches, in field shelters, in light-armoured vehicles, and in non-armoured materied by direct fire on the embrasures of field fortifications and within urban areas.

Weapon Systems

40 mm RPG-7 Anti-Tank Grenade Launchers.

In combat operations, Rounds GG-7A are transported in the bag which is part of the Launcher's individual set of SPTA (spare parts, tools, accessories).

### Round GG-7A

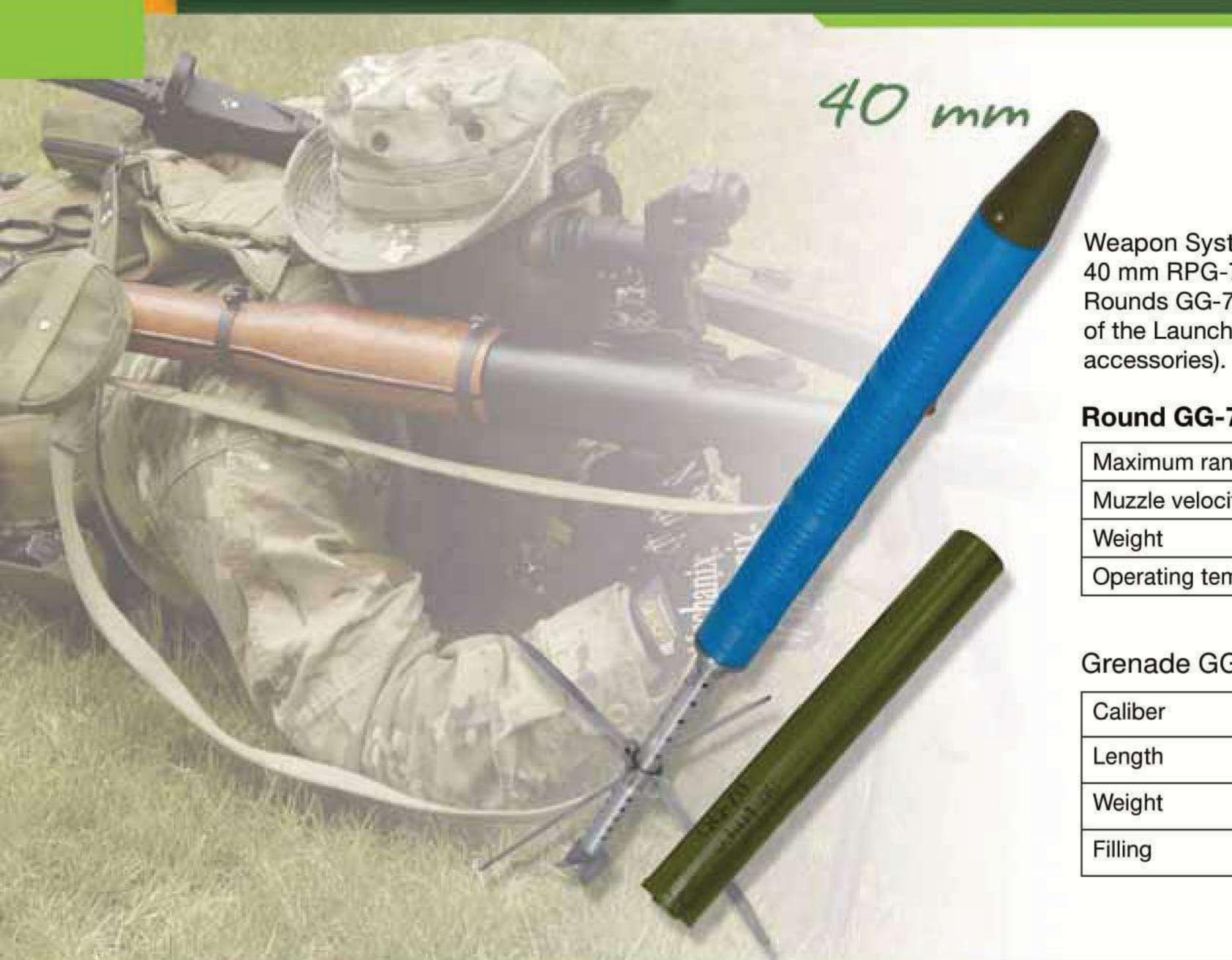
Maximum range	1000 m
Muzzle velocity at 15°C	152 m/s
Weight	1,5 kg
Operating temperature range	-40° to +50°C

### Grenade GG-7

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ım
kg
kg
)5 a



# 40 mm Round GG-7A IN with Practice Grenade



Round GG-7A IN is intended for training.

Weapon Systems 40 mm RPG-7 Anti-Tank Grenade Launchers. Rounds GG-7A IN are transported in the bag which is part of the Launcher's individual set of SPTA (spare parts, tools,

### **Round GG-7A IN**

Maximum range	700 m	
Muzzle velocity at 15°C	152 m/s	
Weight	2 kg	
Operating temperature range	-40° to +50°C	

### Grenade GG-7IN

Caliber	40 mm	
Length	425 mm	
Weight	1,175 kg	
Filling	INERT	



# Hand Grenade RGO & RGN



The RGN offensive hand grenade is designed for use against enemy personnel in offensive and defensive operations.

It is equipped with a time-and-percussion fuze.

The RGO hand grenade is designed for use against enemy personnel in the defense. It contains a time-and-percussion fuze.

# **Specifications**

Diameter (caliber) 60 mm

Weight 0,31 / 0,53 kg

Explosive Filling A-IX-1 (RDX)

Weight of Explosive Charge 0,114 / 0,092 kg

Throw distance 35 / 30 m

Safe radius 24 m

Effective area 100 / 210 m<sup>2</sup>

Delay arming time 1,0 - 1,8 s

Primer activation time after throwing 3,3 – 4,3 s

# Hand Grenade



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# 40 mm Practice Grenade VOG-25 IN for Under-Barrel Grenade Launcher GP-25



The 40 mm Practice grenade VOG-25 IN is intended for practice firing at distance of up to 400 m. The projectile is inert and contains no explosive.

The ammunition is designed for use with the following grenade launchers:

- GP-25 and GP-30 under-barrel grenade launchers mounted on AKM and AK74 assault rifles;
- RG-6 and "AVALANCHE" (Arsenal) revolver grenade launchers.

### BASIC CHARACTERISTICS

# Caliber 40 mm Maximum Effective Range 400 m Operational Temperature Range -50°C to +50°C Shelf Life 10 years

### **ELEMENTS OF GRENADE**

Muzzle velocity	76.5 m/s
Probable Deviation	1 m/s
Average Pressure, max	800 kg/cm <sup>2</sup>

### BALLISTIC DATA

### TECHNICAL DATA

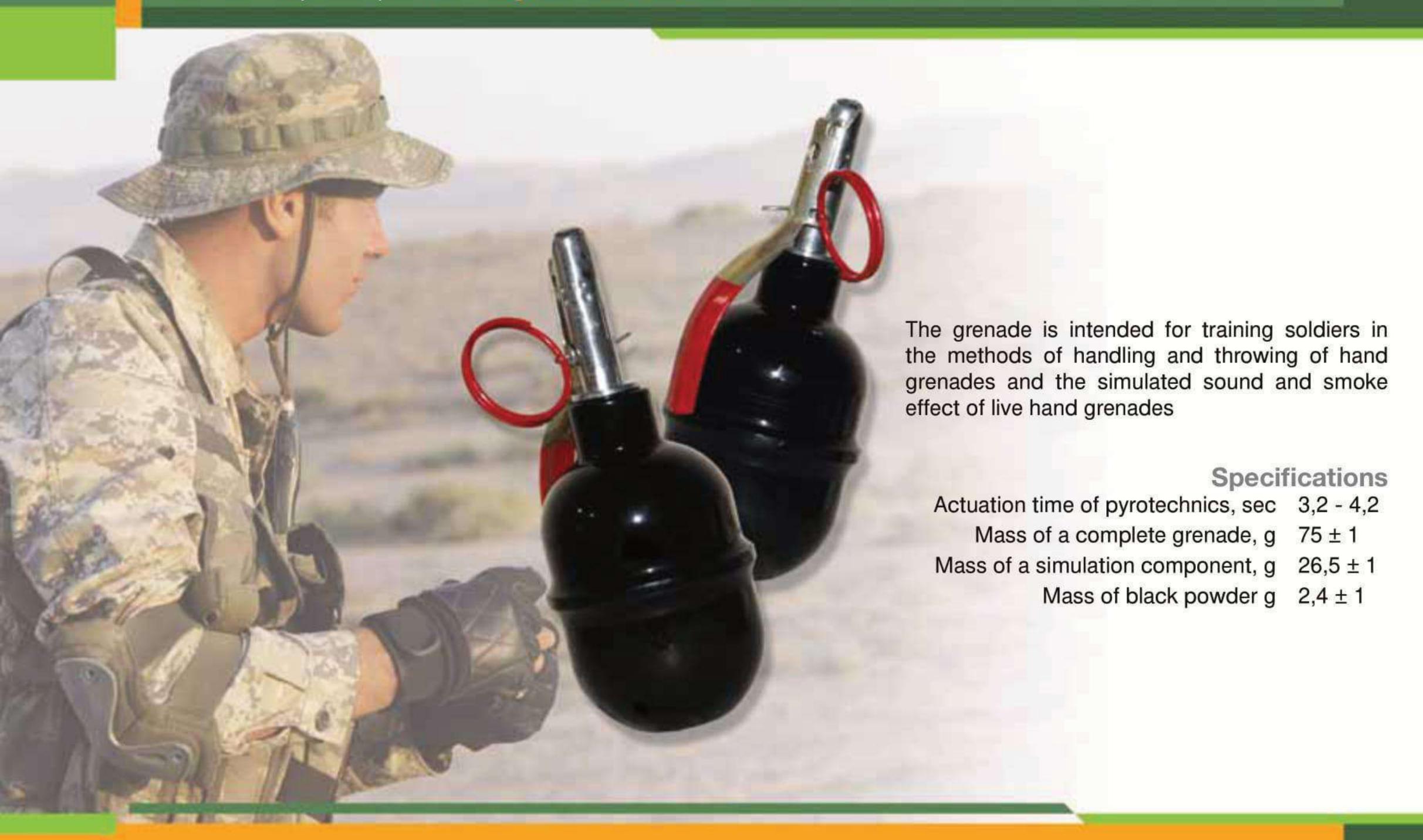
Leng	th of Grenade (max)	102.6 mm
Weig	nt of Grenade	0,25 kg

Fuze	Dummy
Filling	Inert sulfur mixture
Propellant	P-200
Primer	KVM-3

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

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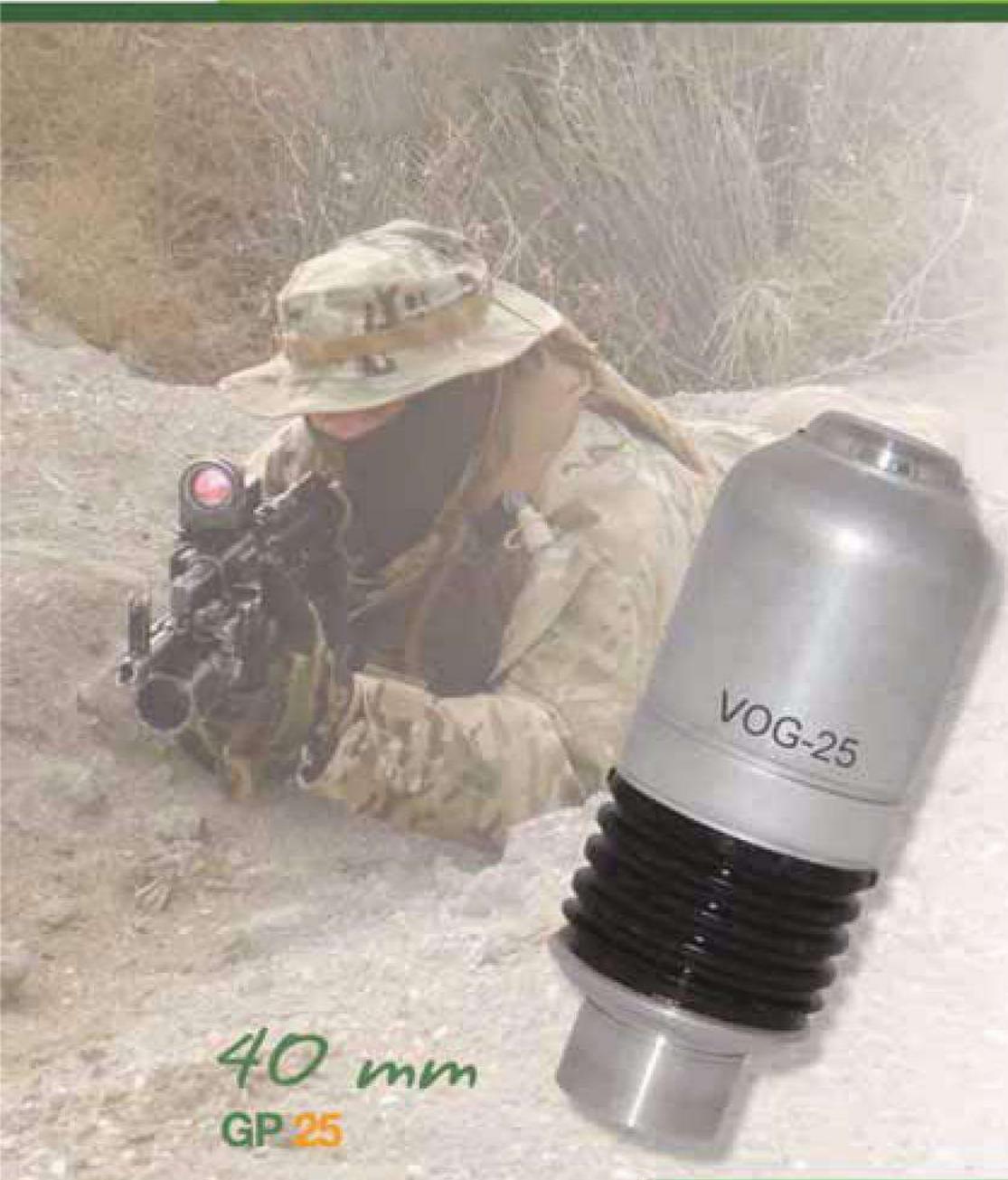
# URQ-N (URQ) Training Simulation Hand Grenade



Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# 40 mm HE Grenade VOG-25 for Under-Barrel Grenade Launcher GP-25



The 40 mm High Explosive Grenade VOG-25 provides effective action against enemy troops in open terrain or in light shelters at distance of up to 400 m. The grenade is self-contained type and is fitted with distance-armed, self-destruct fuze. The ammunition is designed for use with the following grenade launchers:

- GP-25 and GP-30 under-barrel grenade launchers mounted on AKM and AK74 assault rifles;
- RG-6 and "AVALANCHE" (Arsenal) revolver grenade launchers.

The round is safe in storage, handling and operation and ensures the reliable performance of the grenade launchers in all weather conditions.

### BASIC CHARACTERISTICS

Caliber	40 mm
Maximum Firing Range	400 m
Radius of Defeat	not less than 6 m
Operational Temperature Range	-50°C to +50°C
Shelf Life	10 years

### **TECHNICAL DATA**

Length of Grenade (max)	102.6 mm
Weight of Grenade	0,25 kg
Weight of Explosive Charge	0,048 kg

### **BALLISTIC DATA**

Muzzle velocity 76.5 m/s	
Probable Deviation	1 m/s
Average Pressure, max	800 kg/cm <sup>2</sup>

### **ELEMENTS OF GRENADE**

Fuze	VMG-K
Grenade Body	Steel
Explosive Filling	A-IX-1 (RDX)
Propellant	P-200
Primer	KVM-3

### FUZE

Туре	Point Detonating, SQ action, Distance-Armed, Self-Destruct	
Arming Distance	10 to 40 m	
Self-destruction Time	14 to 19 sec	

# 40 mm Round with Fragmentation Jump Grenade VOG-25P



The 40 mm Round with Fragmentation Jump Grenade VOG-25P provides effective action against enemy troops in open terrain or in light shelters at distance of from 40 up to 400 m. The grenade is self-contained type and is fitted with distance-armed, self-destruct fuze.

The ammunition is designed for use with the following grenade launchers:

- GP-25 and GP-30 under-barrel grenade launchers mounted on AKM and AK74 assault rifles;
- RG-6 and "AVALANCHE" (Arsenal) revolver grenade launchers.

The round is safe in storage, handling and operation and ensures the reliable performance of the grenade launchers in all weather conditions.

### BASIC CHARACTERISTICS

Caliber	40 mm
Maximum Firing Range	400 m
Radius of Defeat	not less than 6 m
Jump height	from 0.5 to 1.5 m
Operational Temperature Range	-50°C to +50°C
Shelf Life	10 years

### **TECHNICAL DATA**

Length of Round	d (max)	112 mm
Weight of Round	t	0,272 kg
Weight of the Ex	plosive Charge	0,044 kg

### **BALLISTIC DATA**

Muzzle velocity	75 m/s
Probable Deviation	1 m/s
Average Pressure, max	78.4 MPa

### **ELEMENTS OF GRENADE**

Fuze	VMG-P
Grenade Body	Steel
Explosive Filling	A-IX-1 (RDX)
Propellant	P-200
Primer	KVM-3

### **FUZE**

Type	Point Detonating, SQ action, Distance-Armed, Self-Destruct	
Arming Distance	10 to 40 m	
Self-destruction Time	14 to 19 sec	

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## K-1 GUN COLLIMATOR

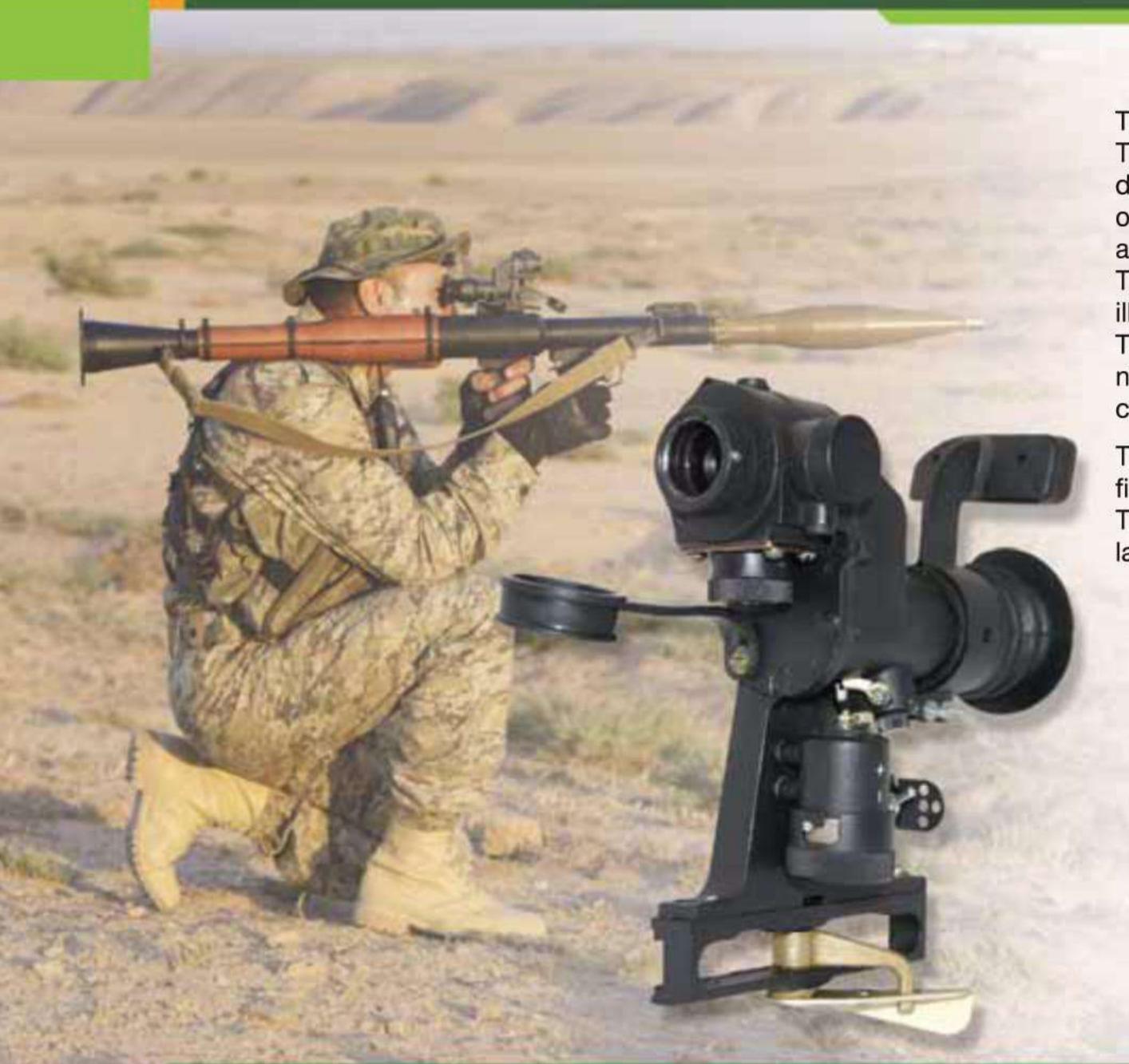


Intended for laying the gun in azimuth in the absence of natural distant aiming points and in limited visibility conditions (night, fog, fire position obscured by smoke) and can be used with MPM-44M (MON-44M) mortar sight. The collimator is provided with a level for leveling, a reticle illumination light for operation in the dark and a tripod for ease of installation. Operation temperature range is from -50 to +50° C in all weather conditions.

	Field of view, degree, min	12
	Entrance pupil diameter, mm, min	48
le le	Distance from panoramic telescope most suitable for operation, m	6-10
	Number of marks on Collimator reticle along horizontal axis	76
ī	Value of Collimator reticle	2.2 mills (7.8")
	Sight reticle eccentricity, degree, max	15
	Brightness gradation number, max	10"
1	Sight reticle inclination angle, minutes, max	20
Į.	Reticle scale value, angular minutes	1
	Max deviation between collimator and gun sight lines, degree	45
	Parallax, mm, max	0,02 (0,2 mm)
	Supply voltage, V	3(CR 1/3t)
	Overall dimensions, mm, max	180 x 135 x 85
	Mass of collimator, kg, max	1,2
	Mass of collimator case, kg, max	1,9
	Mass of tripod, kg, max	3,6

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

# Telescopic Sight For Grenade Launchers GON-1



The sight GON-1 is intended for hand grenade launcher targeting. The reticle of the device enables to conduct measurement of a distance to the standard target, taking into account the ballistics of different ammunition, and to perform elevation/azimuth adjustment in the position of the sighting line.

The reticle illumination is provided for operation under low illumination conditions.

The hermetically tight housing of the device is filled with dry nitrogen to avoid sweating of optical surfaces during quick change of temperature.

The sight can be equipped with a waist-belt bag, cover, light filters, power adapter, spare lamps and power sources.

The sight is mounted on **TƏG-7B2** (RPG-7V2) antitank grenade launchers and its modifications.

#### Specifications

Visible magnification, ratio 2.7

Angular field of view, grad 13

Entrance pupil diameter, mm 24

Exit pupil diameter, mm 4.5

Eye relief, mm 27

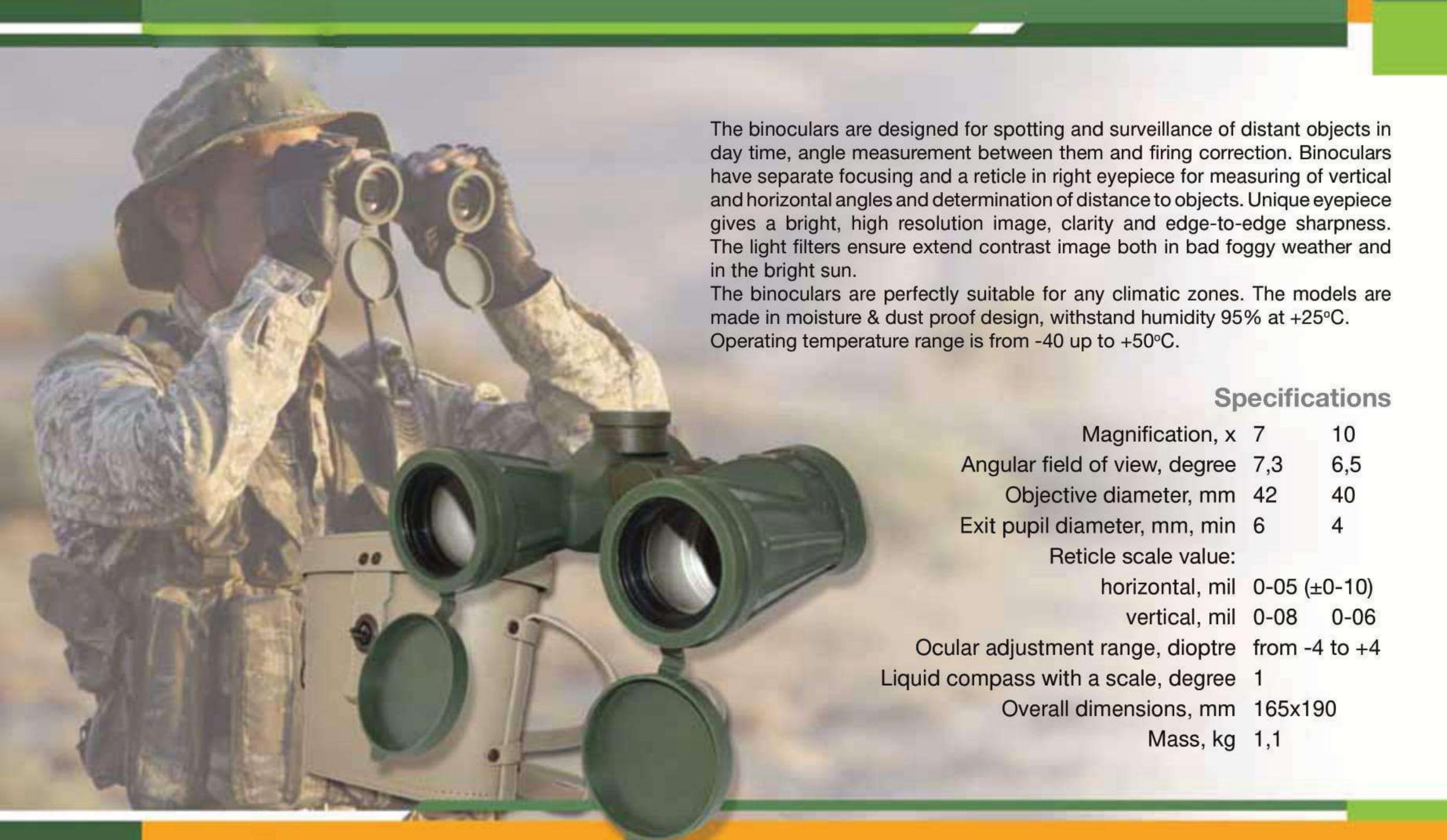
Operation temperature range, °C from -50 to +50

Overall dimensions, mm 140x180x62

Mass, kg 0.57

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# B7x42 & 10x40 Prismatic Binoculars with Built In Compass



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# SAK Bore Sight Collimator



The collimator is designed for zeroing in the optical and optoelectronic day and night sights, being mounted on 5,45 and 7,62 cal. firearms of different modifications as well as for checking the sights after marches or prolonged storage. Use of bore sight collimators enables to save ammunition significantly. Bore sight collimator of optical sights is designed for alignment of optical, collimator or night sights on the weapon. The reticle illumination is being used for sighting and zeroing in of night sights under low illumination conditions.

Barrel inserts are designed for mounting of bore sight collimators on a weapon. The inserts are intended for the weapon of the following calibers:

A1 - 5.33...6.85 mm (0.21"-0,27")

A2 - 7,0...9,14 mm (0,276"-0,36")

A3 - 8,89...11,43 mm (0,35"-0,45")

The device is rated for operation within the ambient temperature range from -10 to +50°C and the relative air humidity 100% at +35°C.

#### **Specifications**

Collimator focusing distance, m, max 200

Lens clear aperture, mm 35

Parallel misalignment, minutes of arc, max 1

Space between optical axis and

barrel insert axes, mm 42; 68

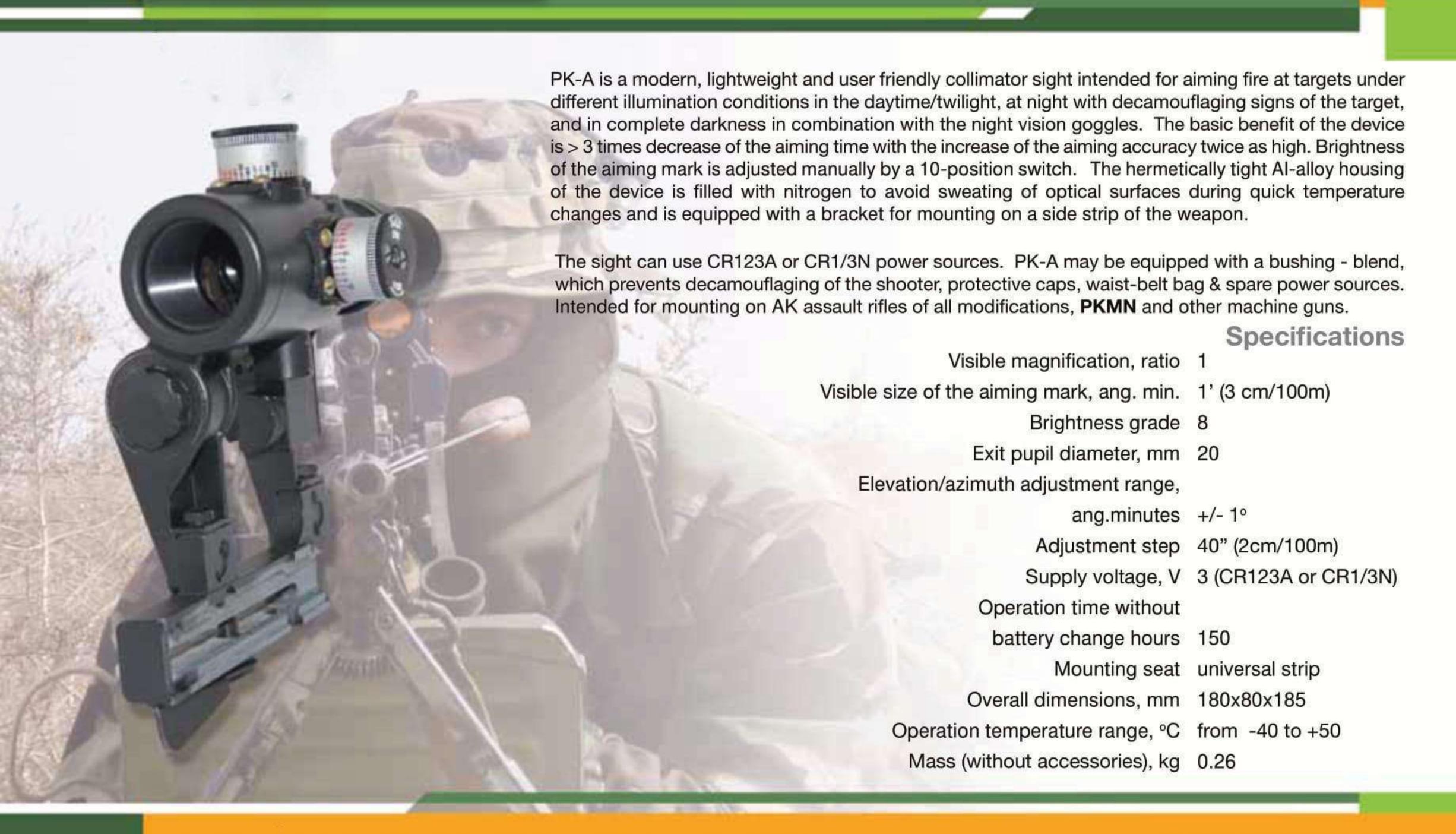
Supply voltage of reticle

illumination device, V 3(CR1/3N)

Overall dimensions, mm 130x47x111

Mass, kg 0,5





Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA



# MTON Standard Mortar Sight



Intended to lay the mortar for firing from indirect positions. The sight has deflection and an elevation mechanizm with coarse and fine scales. For firing in the dark, the sight reticle and laying mechanizm scales are illuminated.

In the absence of natural distant aiming points, the sight can be used jointly with the K-1 gun collimator.

#### **Specifications**

Magnification, times 2

Field of view, degrees 9

Resolution, sec 25

Exit pupil diameter, mm 4

Exit pupil distance, mm 26

Scale graduation, mils 1/6000

Elevation angle, mils 0-00 to 10-00

Horizontal angle, mils 0-00 to 60-00

Mechanical scale graduation:

- average, mils 1-00

- accurate, mils 0-01

Sight weight, kg 0.9

Weight (packed), kg 1.95









Ballistic helmets are available in a range of colors and styles with NIJ Level IIIa protection, and also offer the wearer some protection against improvised weapons. Helmet feature fragmentation protection, which is designed to stop the fragments scattered by an exploded bomb. Ballistic helmets are made from an aramid base bound in thermoplastic resin, and each features a fully adjustable internal suspension system. This makes them lightweight and durable, and also comfortable when worn for long periods of time, even in extreme environments.

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA

## Gas Mask



## Purpose

The gas mask is designed for respiratory protection of face and eyes of wearers from toxic substances (TS), radioaktive substances (RS), chemicals, reactive substances (RS) and hazardous biological agents (HBA), during the manufacturing process and the search&rescue operations.

#### **Features**

- Ability to set filter canister from both right and left side;
- Stability of sight eye-glasses to the influences of mechanical, thermal and impacts;
- Anti-allergic mask with prolonged use;
- Quick and easy donning;
- Convenient and secure device for receiving water;
- Antistatic mask;

## **Specifications**

Field of view, %, at least	70
Intelligibility of speech, %, at least	90
Guarantee period, years	14
Weight (packed), kg, no more than	0.580

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Metal Detector is designed for the searching and detection of the metal and metalic objects both underground and in water.

Maximum searching depth:		
- coin	20 cm	
- can	40 cm	
<ul> <li>big-scale metal products</li> </ul>	70 cm	
Searching regime:		
<ul> <li>minimum searching regime</li> <li>maximum searching regime</li> </ul>		
The produst regulates avtomaticallu during the exploitation.		
Uniterrupted operation of the product from the power source	16-36 hours.	
Consuption of the voltage from the power coorce	50 mA	
Weight of the produst with suitcase, no more than	6,2 kg	
Weight of the product in the operation regime, no more than	2,2 kg	

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# **SM** Signal Mine



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# Thermos TVN 12 & 36





## Practice Aircraft Bomb TAB-7



Practice aircraft bomb TAB-7 is designed for training the flight personnel bombing technique. The ammunition design ensures its practical use both in the daytime and at night. Appearing at the bomb impact a smoke cloud & a flash allow visual observation of the drop point.

## **Specifications**

Maximum weight, kg 10

Total length, mm 65

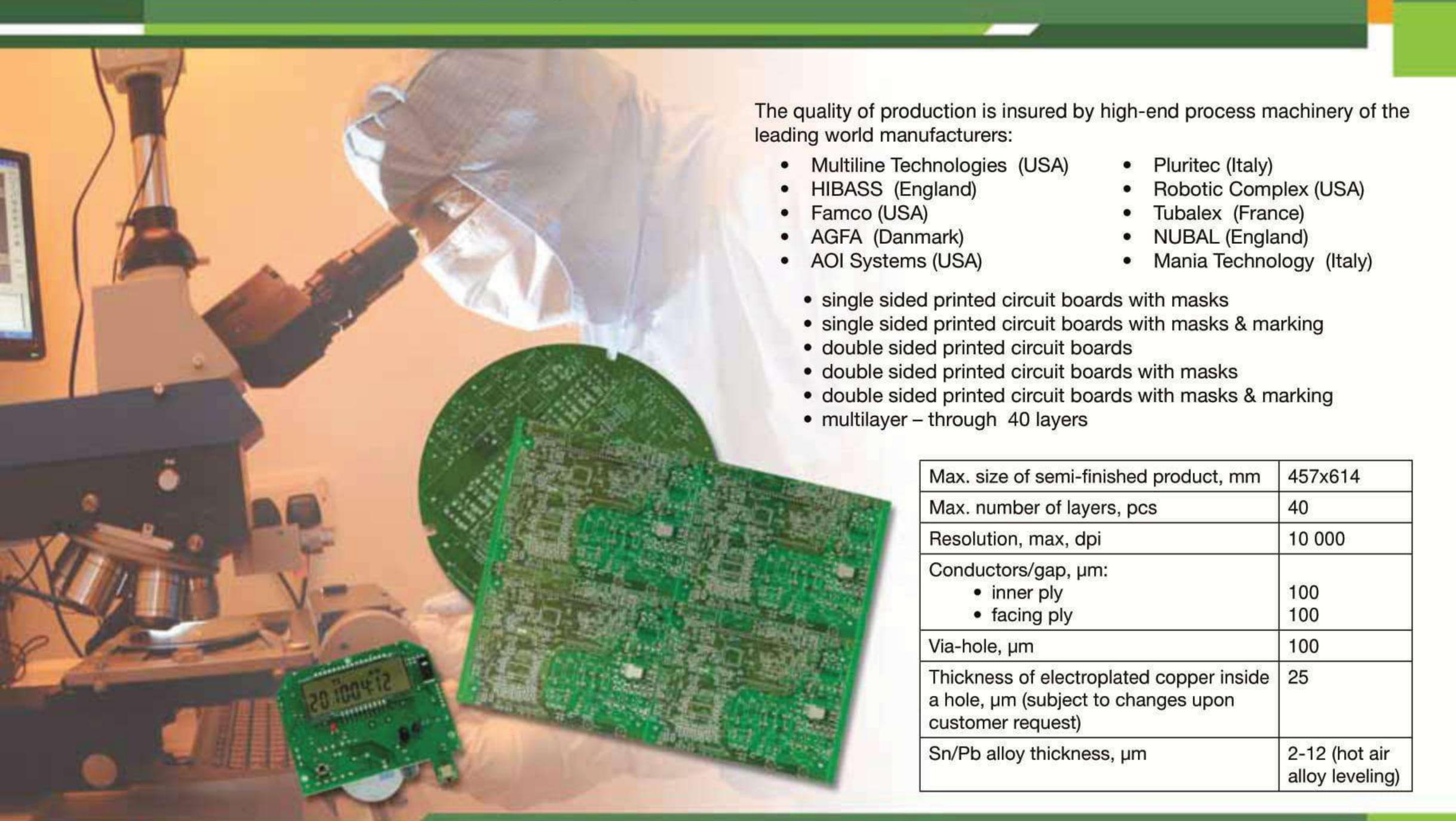
Maximum body diameter, mm 150

Dropping height, m 2000 - 3000

Drop time, s 21-23

Mass of smoke & illuminating substance, g 200

# Printed Circuit Boards (PCB)





## Round 40x46 mm HEDP M99



40x46 mm High Explosive Dual Purpose Grenade with M99 (HEDP) is intended to defeat enemy troops and light armoured vehicles at distance up to 400 m. HEDP M99 features Dual Purpose Effects: Armour Penetration 60 mm against hardenered steel plate (RHA), and Fragmentation Effect with 5 m Effective Defeat Radius.

#### **Specifications**

Calibre (mm)	40
Round mass (g)	252
Grenade mass (g)	200
Explosive mass (g)	42
Round length (mm)	max 106,5
Muzzle velocity (m/s)	78
Fuze arming distance (m)	8 ÷ 30
Precision on vertical target, at the distance of 100 m (m):	Vp ≤ 0,25, Vv ≤ 0,35
Max range (m)	400
Penetration (mm of steel plate)	60
Lethal radius (m)	≥ 5
Delay time (s)	2.5 3.5
Operating temperature (°C):	-42 +63
Weapon compability	RBG 40 mm/6M11; MSGL; M79; MK1; M203; HK69A1; F2000 or other similar weapons

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# Round 40x46 mm illuminating with parachute M04



## **Specifications**

Calibre (mm)	40 mm
Round mass (g)	250
Grenade mass (g)	200
134	134
Delay time (s)	2.5 3.5
Burning time of star (s)	20
Light intensity of star (cd)	80 000
Middle wave length (mm)	587±5
Height fired at 85° (m)	182±30
Operating temperature (°C):	-30 +50
Weapon compability	RBG 40 mm/6M11; MSGL; M79;
	M203; HK69A1; F2000 or other
	similar weapons

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# AT-7V with at-7 anti-tank grenade



It is designed to defeat armored and motorized equipment, as well as enemy troops in field shelters and fortifications.

#### **Round Characteristics**

Grenade launcher caliber, mm	40
Warhead caliber, mm	93
Round weight, kg	2,600
Grenade weight, kg	2,200
Propellant charge weight, kg	0,390
Muzzle velocity, m/s	112
Direct fire range, m	250
Direct sighting range, m	300
Armor penetration, mm	500
Safe operational temperature range, °C	-40 50
Firing rate, shots/min	4 6

#### Weapon System

TƏG-7V2, RPG-7V portable antitank grenade launchers

## Packing

Dimension, mm	899x498x294
6 rounds in wooden case	
Gross weight, kg	38

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# AT-7V IN with AT-7 IN practice grenade



Round AT-7V IN is intended for training.

#### **Round Characteristics**

Grenade launcher caliber, mm	40
Training warhead caliber, mm	93
Round weight, kg	2,600
Grenade weight, kg	2,200
Propellant charge weight, kg	0,390
Muzzle velocity, m/s	112
Safe operational temperature range, °C	-40+50
Firing rate, shots/min	46

## Weapon System

TƏG-7V2, RPG-7V portable antitank grenade launchers

## Packing

Dimension, mm	899x498x294
6 rounds in wooden case	
Gross weight, kg	38

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# PG-7VLT with PG-7LT anti-tank grenade



It is designed to defeat armored vehicles including fitted with ERA, as well as motorized equipment and enemy troops in field shelters and fortifications.

#### **Round Characteristics**

Grenade launcher caliber, mm	40
HEAT warhead caliber, mm	93
Precursor warhead caliber, mm	50
Round weight, kg	3,290
Grenade weight, kg	2,900
Propellant charge weight, kg	0,390
Muzzle velocity, m/s	90
Direct fire range, m	220
Direct sighting range, m	250
Armor penetration after ERA, mm	>500
Safe operational temperature range, °C	-40 50
Firing rate, shots/min	4 6

# Weapon System

TƏG-7V2, RPG-7V portable antitank grenade launchers

## Packing

Dimension, mm	1136x474x307
6 rounds in wooden case	
Gross weight, kg	50

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# APTB-7V termobaric round



The round APTB-7V is intended for destroying enemy troops in the open and in shelters, enemy emplacements, stone, concrete and brick fortifications, light armored and unarmored equipment.

#### **Round Characteristics**

Grenade launcher caliber, mm	40
Warhead caliber, mm	103
Round weight, kg	4,310
Grenade weight, kg	4,020
Propellant charge weight, kg	0,390
Muzzle velocity, m/s	70
Direct fire range, m	150
Max. range, m	1000
Safe operational temperature range, °C	-40 50
Firing rate, shots/min	4 6

# Weapon System

TƏG-7V2, RPG-7V portable antitank grenade launchers

## Packing

Dimension, mm	760x445x370
6 rounds in wooden case	
Gross weight, kg	48,5

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# Matador



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alteksavunma@hotmail.com





#### Performance

100-120 (tyre limited)
18
700
MAN (176 kW AND 925 Nm)
ZF 12 SPEED SEMI-AUTOMATIC
MAN 3 SPEED
Air Operated Front, Center and Rear
Pneumatic Drum (ABS ready)
1400 R 20
15 kW Standard
24 V
7.62x54 mm RB 32 API&.50 cal API (equivalent to STANAG 4569, level III)
Triple anti-tank mine (21 kg TNT under any wheel) without hull rupture or fatal occupant injuries. Double anti-tank mine (14 kg TNT under the hull), without hull rupture and fatal occupant injuries (Higher than STANG 4569 level 4)

## **Specifications**

Crew	2+12
Combat Weight (kg)-GVM	15 000
Power-to-weight-Ratio@ GVM	11.7 kW/TON (16.3 kW/ton at Kerb Weight)
Kerb Weight (kg)	10 800
Payload (kg)	4 500
Ground Clearance (mm)	420 (365 under differential)
Wheel Base (mm)	4 170

### **Options**

Central Tyre Inflation System (CTIS)
Run Flat Inserts (RFI)
ABS Brakes
BC Overpressure System
Auxiliary Power Unit

Radios and Intercom System Long Range Fuel Tank Winch (8 ton) Various Weapon Stations



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#### Performance

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Max Speed-Road (km/hr)	100-120 (tyre dependent)
Turning Radius (m)	16.5
Road Range	700
Engine	MAN (176 kW AND 925 Nm)
Transmission	ZF 12 Speed Semi-automatic
Transfer Box	MAN 3 Speed
Diff Locks	Air Operated Front, Center and Rear
Brakes	Pneumatic Drum (ABS ready)
Tyres	MICHELIN XZL 365/85 R20
Air-conditioner	15 kW Standard
Electrical System	24 V
Protection-KE (Standard)	7.62x54 mm RB 32 API&.50 cal API (equivalent to STANAG 4569, level III)
Protection-Mine	Double anti-tank mine (14 kg TNT under any wheel) without hull rupture or fatal occupant injuries. Single anti-tank mine (7 kg TNT under the hull), without hull rupture and fatal occupant injuries (STANG 4569 level 3b and 4a)

## **Specifications**

Crew	2+8
Combat Weight (kg)-GVM	15 000
Power-to-weight-Ratio@ GVM	11.7 kW/ton (17.8 kW/ton at Kerb Weight)
Kerb weight (kg)	9 900
Payload (kg)	5 100
Ground Clearance (mm)	420 (365 under differential)
Wheel Base (mm)	3 500

#### **Options**

Central Tyre Inflation System (CTIS)
Run Flat Inserts (RFI)
ABS Brakes
BC Overpressure System
Auxiliary Power Unit

Radios and Intercom System Long Range Fuel Tank Winch (8 ton) Various Weapon Stations



# Tactical scope 4-14x50

## **Specifications**

Magnification	4 - 14x
Objective diameter (mm)	50
Field of view (degrees)	4.5 - 1.5
Exit pupil diameter (mm)	12.5 - 3.6
Eye relief (mm)	90
Diopter correction (dpt)	±4
Twilight factor	14.2 - 26.5
Transmission	90%
Focal plane Plan	II .
Tub diameter (mm)	30/40
Click value / 100 m	1/4 MOA
Parallax adjustment	(Focus)
Length (mm)	385
Weight (g)	900/1050

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# 60 mm HE long range Mortar Bomb



60 mm

The 60 mm High-Explosive long range Mortar Bomb is intended for engagement of troops in open or in light shelters.

The ammunition is designed for use with the 60 mm smooth-bore long range mortars meeting NATO standards, including:

The ammunition is safe in storage and handling and ensures the reliable performance of the mortar system in all weather conditions.

#### **BASIC CHARACTERISTICS**

Caliber	60 mm
Maximum range	4000 m
Operating Temperature Range	-50°C to +50°C
Shelf Life	10 years

#### **ELEMENTS OF MORTAR BOMB**

Fuze	M-6H or AZ111A2
Body	Cast iron
Explosive Filling	TNT
Number of Charges	1+6 Increment charges

#### TECHNICAL DATA

Length of Mortar Bomb (fuzed)	351 mm
Weight of Mortar Bomb (fuzed)	1.84 kg
Weight of Explosive Charge	0.3 kg

#### **BALLISTIC DATA**

Muzzle Velocity (max)	172±7 m/s
Maximum pressure	611 kg/cm <sup>2</sup>

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA



# 60 mm Practice long range Mortar Bomb



The 60 mm Practice long range Mortar Bomb is intended for training. The ammunition is designed for use with the 60 mm smooth-bore long range mortars meeting NATO standards, including:

The ammunition is safe in storage and handling and ensures the reliable performance of the mortar system in all weather conditions.

#### BASIC CHARACTERISTICS

		the second secon
	Caliber	60 mm
	Maximum range	4000 m
	Operating Temperature Range	-50°C to +50°C
	Shelf Life	10

#### **ELEMENTS OF MORTAR BOMB**

Fuze	Dummy
Body	Cast iron
Number of Charges	1+6 Increment charges

#### TECHNICAL DATA

0	Length of Mortar Bomb	351 mm
	Weight of Mortar Bomb	1.84 kg

#### BALLISTIC DATA

Muzzle Velocity (max)	172±7 m/s
Maximum pressure	611 kg/cm <sup>2</sup>

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# 5.56 mm Assault Rifles EM-14



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The design of the EM-14 makes it possible to attach an underbarrel grenade launcher or a knife-bayonet. Muzzle brake provides for cyclic fire accuracy and further reduces muzzle climb and burst recoil.

## **Specifications**

Cartridge, mm	5.56x39
Muzzle velocity, m/s	860
Sighting range, m	1000
Cyclic rate of fire, rounds/min	660
Combat rate of fire, rounds/min single shot fire short burst fire	40 100
Fire control	Semi auto, full auto
Weight, kg rifle with loaded magazine rifle with empty magazine	3.9 3.6
Overall length, mm	945
Barrel length, mm	415
Magazine capacity, rounds	30





Manually operated Linking Machine is intended for linking 23x152B mm Cartridges for 2A7 and 2A14 Automatic Guns. The machine may be mounted on its packing or on the table.

#### Specifications

Ammunition 23x152B mm Rounds

Used with systems 2A7, 2A14 Automatic Guns

> Operation Manual

Output / cartridges per hour 1800x2400

Machine dimensions, mm 461x944x561

Packing

in Wooden case

Case dimensions, mm

470x800x266

Net weight, kg 8.3



# Belt & Boxes for 23x152 mm Ammunition



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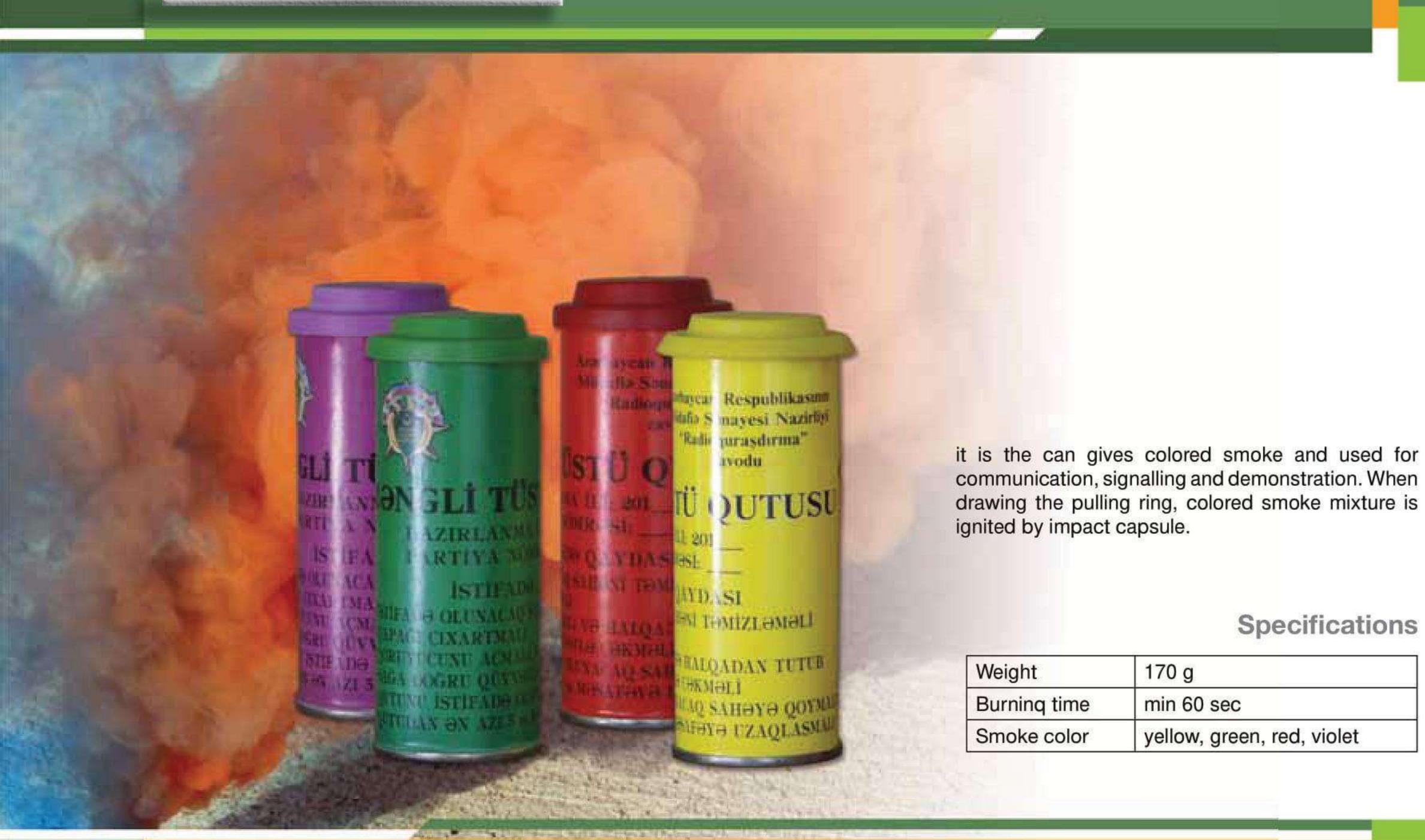
# 12,7x99 mm cartridge with the Ball bullet



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# Automatic grenade launcher AGK-30



Automatic grenade launcher AGK-30 is an infantry weapon intended for annihilation of covered and uncovered live forces at distances up to 1700 m.

Reliability of its functioning in various climates and terrains was confirmed by strict testing methods, in accordance with military standards.

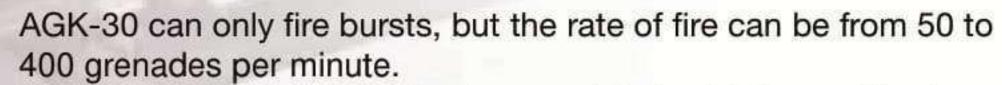
#### Complete set

- Automatic grenade launcher AGK-30
- Tripod
- Aiming device NSBG-1
- 6 ammunition belts
- 3 ammunition boxes
- Tripod sling
- Carrying bag
- Spare parts
- Tools and accessories
- Handling and maintenance manuals

Anıttepe Mahallesi Gazi Mustafa Kemal Bulvarı No : 149/C ÇANKAYA/ANKARA alteksavunma@hotmail.com



# Automatic grenade launcher AGK-30



The interior of the barrel is chrome plated, which provides long service life and precision of the weapon.

The weapon is fed from a belt with the capacity of 29 grenades, placed in the ammunition box. The launcher can fire grenades with anti-personnel and training projectiles.

The design of the tripod enables quick change of combat position. Depending on tactical requirements and at the customer's request, the automatic grenade launcher can be mounted to various types of combat vehicles.

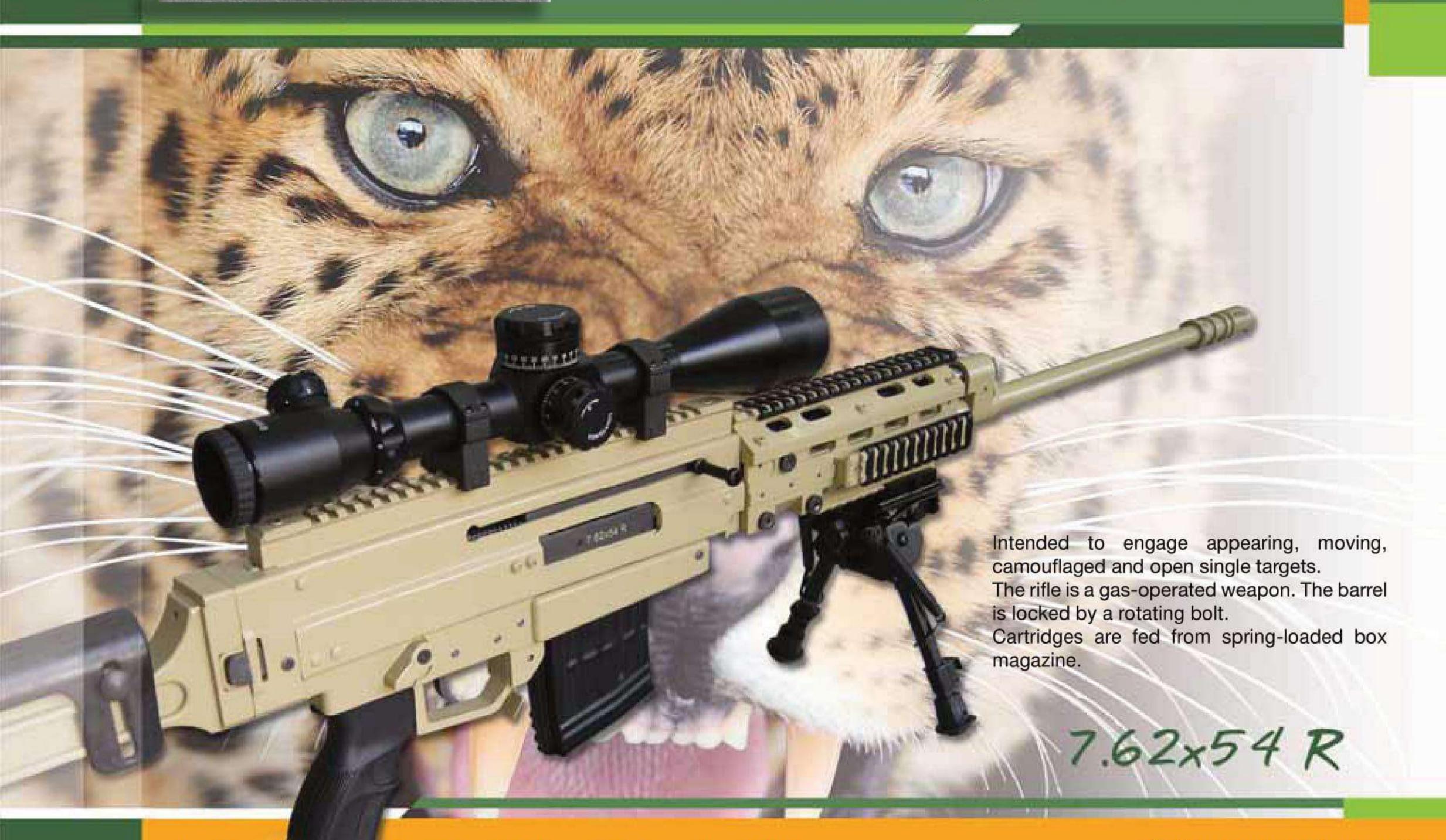
#### Optionally, at customer's request, the set can include:

- Belt filler; quantity as per customer's request or manufacturer's recommendation: 1 belt filler per 3 launchers
- Rectification sight; quantity as per customer's request or manufacturer's recommendation: 1 sight per 3 launchers

Caliber (mm)	30
Capacity of the ammunition box (rounds)	29
Barrel length (mm)	300
Total length (mm)	1.380
Weight (kg)	24
Weight of tripod (kg)	8.5
Rate of fire (rds/min)	50-400
Maximum effective range (m)	1700



# YIRTICI sniper rifle system Cal. 7.62x54 R

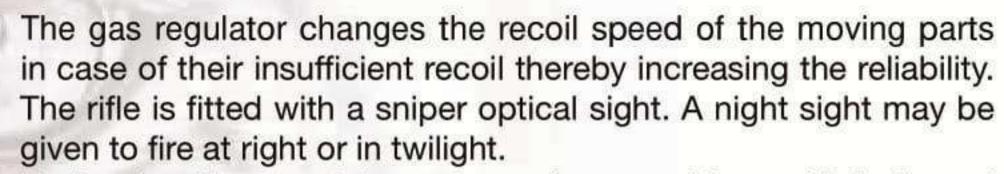


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# YIRTICI sniper rifle system Cal. 7.62x54 R



To fire the rifle, special-purpose sniper cartridges with bullets of increased consistency are used. Standard cartridges can also be used.

#### **Specifications**

System	semi-automatic
Caliber	7,62x54 mm
Muzzle velocity	830 m/s
Barrel lenght	620 mm
Effective range	1000 m
Overal lenght: buttstock folded buttstock open	951 mm 1185 mm
Weight, kg	6,0 kq
Magazine capacity	10 rds, detachable
Operational temperature	±50°C

7.62×54 R



# 122 mm Full / reduced charge round with HE Fragmentation projectile



The rounds are used against guns/mortars, stationary and maneuvering armored combat vehicles and personnel, fire assets, fortifications, and observation posts.

Type of charge	redused / full
Muzzle velocity, m/s:	565 / 690
Weight, kg: round projectile explosive	28,2 / 29,5 21,760 3,610
Maximal effective range, km	15,3
Operational temperature limits, °C	±40
System	D-30 howitzer, 2S1 self-propelled howitzer

## 122 mm Full / reduced charge round with Practice HE projectile



Intended for practice firings to develop practical skills in accurate firing when there is no need for destructive and casualty effect of the projectile on the target.

Type of charge	redused / full
Muzzle velocity, m/s:	565 / 690
Weight, kg: round projectile	28,2 / 29,5 21,760
Maximal effective range, km	15,3
Operational temperature limits, °C	±40
System	D-30 howitzer, 2S1 self-propelled howitzer









### 152 mm Brass Cartridge Case for D-20 gun-howitzer

Weight	7,50 kg	
Material	brass	
Total height	547,5-1,2 mm	
Flange dia.	Ø170,2-0,53 mm	
Mouth internal dia.	Ø154+0,26 mm	

# 152 mm Brass Cartridge Case for 2A36 gun

Weight	10,7 kg
Material	brass
Total height	857-3,5 mm
Flange dia.	Ø223 mm
Mouth internal dia.	Ø190 mm





# ALTEK

### Cartridge primers



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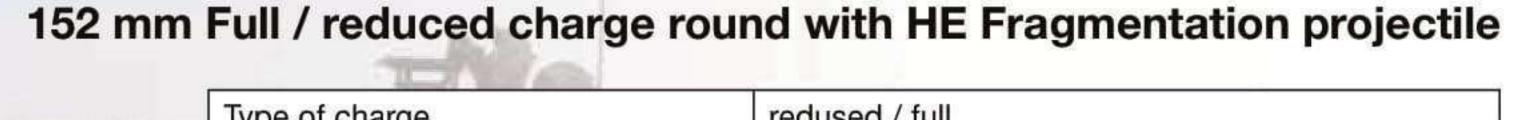
7,62×39 mm / 7,62×54R

9x18 mm / 9x19 mm

12,7×108 mm



# 152 mm Full / reduced charge round



Type of charge	redused / full
Muzzle velocity, m/s:	511 / 655
Weight, kg: round projectile explosive	60 / 56 43,56 5,93
Maximal firing range, km	17,4
Operational temperature limit	s, °C ±40
System	D-20 gun-howitzer, 2S3M self-propelled howitzer

#### 152 mm Full / reduced charge round with Practice HE projectile

Type of charge	redused / full
Muzzle velocity, m/s:	511 / 655
Weight, kg: round projectile	60 / 56 43,56
Maximal firing range, km	17,4
Operational temperature limits, °C	±40
System	D-20 gun-howitzer, 2S3M self-propelled howitzer

152 mm



### 125 mm Stub of Partially Combus-Tible Case of Round for D-81 gun

Weight	3,4±0,15 kg	
Material	steel	
Total height	140 mm	
Flange dia.	Ø171,96-0,53 mm	
Mouth internal dia.	Ø156,1+0,70 mm	





# 100 mm Steel Cartridge Case For MT-12 Anti-Tank Gun

Weight	8,243±0,64 kg
Material	steel
Total height	913-2,2 mm
Flange dia.	Ø147,46-0,53 mm
Mouth internal dia.	Ø100+0,46 mm

100 mm



# RS-M Red-dot (reflex) Sight Mini



It ensures by 2 ...3 times more fast shooting at short and average distances. It is possible to conduct shooting at night in combination with the night vision goggles of the type NV/G-14, night vision monocular of the type NV/M-19. It is free from parallax. The aluminium tight case of the closed type is filled with nitrogen. It can be mounted on AK submachine guns of all modifications and other automatic small arms which has a guide strip of the type «Picatinny rail MIL-STD 1913» by means of a transition bracket. In view of small overall dimensions it is recommended to mount it on submachine guns of various modifications.

#### **Specifications**

Visible magnification, ratio	1
Aiming mark brightness gradation number	11
Elevation/azimuth adjustment range, ang. deg., min.	±1
Power source one lithium element of the type	CR2032
Rated voltage, V	3
Continuous operation time without replacement of the power source (at maximum brightness of the aiming mark), h, min.	
Overall dimensions, mm	72x76x55
Weight of the Sight including the power source, g. max.	180
Operating temperature range, °C	-40 + 55
High Gloss available	

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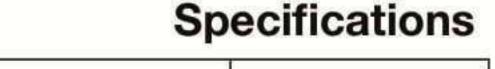


## A100 Monocular Goggle



A100 Model Night Vision Monocular offers a high resolution image intensified night vision in a compact, lightweight and yet rugged design. It features a single tube and singe-eyepiece configuration. The new concept of a single-eye format night vision monocular is based on independent use of each eye. One eye is equipped with a night vision device while the other eye remains free and uncovered.

A100 Monocular Goggle has a major advantage when compared to standard dual eye goggle for instant adaptation of the user to ambient light viewing after the goggle is removed from the eye. Because of the uncovered eye, the user never experiences the temporary night blindness problem. Moreover, during night time A100 can be used as a rifle scope while it is mounted together with day sight optics.



Magnification	40°
Field of View	40°
Focus Range	25 cm to infinity
Eye Relief	25 mm
Weight (without battery)	Less than 350 g
Environmental Operating Temperature	-51°C to +55°C
Storage Temperature	-51°C to +71°C
Immersion 1 m for 30 minutes	
All tolerances are within ± 10%	

#### Optional Items:

- Daylight Training Filter / Sacrificial Filter
- Facemask Assembly
- Shipping/Storage Case
- Soft Carrying Case
- Eyecup

- Lens Cap, Objective
- Battery, AA Alkaline (2 ea.)
- Lens-Cleaning Kit
- Demist Shield
- Operator's Manual

### 100 mm Round with M82 HE Fragmentation Projectile



The 100 mm round with HE fragmentation projectile is a unitary round. Intended for use against manpower, field fortifications, field engineer constructions, fire position of artillery pieces, mortars, launchers and infantry fire weapons of the enemy.

#### **Specifications**

Weight, kg round projectile	28,9 16,7
Length of round, mm	1282
Muzzle velocity, m/s	700
Maximum firing range, km	8,2
Safe operating temperature range, °C	from -40 to +50

#### 100 mm Round with M82 Practice HE Projectile

The 100 mm round with M82 HE Practice projectile is a unitary round. It is a live round with practice warhead and is used for training of personnel and live fire against targets where it leaves traces of impact. The practice round possesses the same dimensions, weight and ballistic characteristics as a live ammunition. The use of practice rounds preserves the practice targets at firing ranges, reduces the probability of starting a fire and increases the safety while conducting demonstrative and training firing.

#### 100 mm Round with M88 Heat-T Projectile PRACT The 100 mm round with M88 Heat-T projectile is a unitary round. Intended for use against armored targets, manpower, fortifications, engineer constructions, fire positions of artillery pieces, mortars and launchers. Specifications Weight, kg 23,1 round 9,5 projectile Length of round, mm 1282 Muzzle velocity, m/s 975 5,95 Maximum firing range, km from -40 to +50 Safe operating temperature range, °C 100 mm Round with M88 Practice Heat Projectile The 100 mm round with M88 Heat practice projectile is a unitary round. It is a live round with practice warhead and is used for training of personnel and live fire against targets where it leaves traces of impact. The practice round possesses the same dimensions, weight and ballistic characteristics as a live ammunition. The use of practice rounds preserves the practice targets at firing ranges, reduces the probability of starting a fire and increases the safety while conducting demonstrative and training firing.

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# 125 mm HEAT-T M88P1 Round for Tank Guns T-72 and T-90



125 mm HEAT-T M88P1 round is with separate cartridge loading. It is designed for destroying the enemy manpower and equipment on open ground or in field shelters, fighting the artillery and anti-missile systems, destroying field defense and engineering equipment, making passages in mine fields and defense wirings.

Weight, kg projectile charge explosive	23 10 3,28
Muzzle velocity, m/s	850
Maximum firing range, km	12,2
Safe operational temperature range, °C	from -30 to +50

# 125 mm HEAT-T Practice Round for Tank Guns T-72 and T-90



125 mm HEAT-T practice round is with separate cartridge loading. It is live round with practice warhead and is used for training of personnel and live fire against targets where it leaves traces of impact. The practice round possesses the same dimensions, weight and ballistic characteristics as a live ammunition. The use of practice rounds preserves the practice targets at firing ranges, reduces the probability of starting a fire and increases the safety while conducting demonstrative and training firing.

Weight, kg projectile charge	23 10
Muzzle velocity, m/s	850
Maximum firing range, km	12,2
Safe operational temperature range, °C	from -30 to +50