

# 40 MM ANTITANK GRENADES AND EXPLOSIVE BOMBS LAUNCHER TYPE RPG - 7 S WITH OPTICAL SIGHT- PGO7V



## 1) DESTINATION:

The antitank grenades and explosive bombs launcher, 40 mm caliber, is a means of fire of infantry subunits and land force.

The launcher is designed for destroying the tanks, truck-borne cannons, any type of car and other armored mean of fire of the enemy. Besides, the launcher can be used also for destroying the living force and the fire means of enemy, existing in wooden and earth buildings, of light type or brick buildings.

## 2) MAIN TECHNICAL DATA:

- Caliber..... 40 mm
- maximum range with hollow round ..... 500 m
- maximum range with: explosive bomb Ø 40 mm.....1.000 m  
explosive bomb Ø 60 mm.....1.500 m
- weight of the launcher: without sight mechanism.....6 kg  
equipped with PGO7V sight mechanism ..... 6,5 kgs
- rate of fire..... 4÷6 rounds/min
- length of the launcher..... 908 mm
- dangerous area, behind the launcher ..... 70° x 30 m

## 3) DELIVERY:

40 mm grenade launcher, together with the individual kit of spare parts, tools, and accessories is delivered in its wooden packing case. Kits for middle and capital repairs can be delivered on customer's order.

5 pieces of 40 mm launchers with individual kit are packed in wooden case:

- dimensions of case ..... 1240x640x440 mm
- gross weight.....100 kgs
- net weight.....60 kgs

# 40 MM ANTITANK GRENADES AND EXPLOSIVE BOMBS LAUNCHER TYPE RPG - 7 S WITH OPTICAL SIGHT- IOAG-7S



## 1) DESTINATION:

The antitank grenades and explosive bombs launcher, 40 mm caliber, is a means of fire of infantry subunits and land force.

The launcher is designed for destroying the tanks, truck-borne cannons, any type of car and other armored mean of fire of the enemy. Besides, the launcher can be used also for destroying the living force and the fire means of enemy, existing in wooden and earth buildings, of light type or brick buildings.

## 2) MAIN TECHNICAL DATA:

- Caliber ..... 40 mm
- maximum range with hollow round ..... 500 m
- maximum range with: explosive bomb Ø 40 mm.....1.000 m  
explosive bomb Ø 60 mm.....1.500 m
- weight of the launcher: without sight mechanism.....6 kg  
equipped with IOAG7S sight mechanism..... 6,5 kgs
  - magnification.....x 2,7
  - field of view. .... 13°
  - range of elevation .....0°-36°
- maximum pressure. ....max 1080 Kgf/cm<sup>2</sup>
- rate of fire..... 4÷6 rounds/min
- length of the launcher..... 908 mm
- dangerous area, behind the launcher ..... 70° x 30 m

## 3) DELIVERY:

40 mm grenade launcher, together with the individual kit of spare parts, tools, and accessories is delivered in its wooden packing case. Kits for middle and capital repairs can be delivered on customer's order.

5 pieces of 40 mm launchers with individual kit are packed in wooden case:

- dimensions of case ..... 1240x640x440 mm
- gross weight..... 100 kgs
- net weight.....60 kgs

## 40 MM ANTITANK GRENADES AND EXPLOSIVE BOMBS LAUNCHER TYPE RPG - 7 S WITH „PICATINNY” RAIL



### 1) SPECIFICATIONS:

The Picatinny adaptor type allows fixing the new generations of opto-electronic sights, by keeping the requirements of NATO standard –MIL 1913

### 2) DESTINATION:

The antitank grenades and explosive bombs launcher, 40 mm caliber, is a means of fire of infantry subunits and landing force.

The launcher is designed for destroying the tanks, truck-borne cannons, any type of car and other armored mean of fire of the enemy. Besides, the launcher can be used also for destroying the living force and the fire means of enemy, existing in wooden and earth buildings, of light type or brick buildings

### 3) MAIN TECHNICAL DATA:

- Caliber ..... 40 mm
- maximum range with hollow round ..... 500 m
- maximum range with: explosive bomb Ø 40 mm ..... 1.000 m  
explosive bomb Ø 60 mm ..... 1.500 m
- weight of the launcher: without sight mechanism ..... 6 kg  
equipped with picatinny rail ..... 6,5 kgs
- rate of fire ..... 4÷6 rounds/min
- length of the launcher ..... 908 mm
- dangerous area, behind the launcher ..... 70° x 30 m

### 4) DELIVERY:

40 mm grenade launcher, together with the individual kit of spare parts, tools, and accessories is delivered in its wooden packing case. Kits for middle and capital repairs can be delivered on customer's order.

5 pieces of 40 mm launchers with individual kit are packed in wooden case:

- dimensions of case ..... 1240x640x440 mm
- gross weight ..... 100 kgs
- net weight ..... 60 kgs





# 40 MM ANTITANK GRENADES AND EXPLOSIVE BOMBS LAUNCHER TYPE RPG - 7 S WITH „PICATINNY” RAIL, OPTICAL SIGHT TAS11 AND MAGNIFIER LINX 8 x 30



## 1) SPECIFICATIONS:

The Picatinny adaptor type permit of fixing the new generations of opto-electronic sights, by keeping the requirements of NATO standard –MIL 1913

## 2) DESTINATION:

The antitank grenades and explosive bombs launcher, 40 mm caliber, is a means of fire of infantry subunits and landing force.

The launcher is designed for destroying the tanks, truck-borne cannons, any type of car and other armored mean of fire of the enemy. Besides, the launcher can be used also for destroying the living force and the fire means of enemy, existing in wooden and earth buildings, of light type or brick buildings

## 3) MAIN TECHNICAL DATA:

- Caliber ..... 40 mm
- maximum range with hollow round ..... 500 m
- maximum range with: explosive bomb Ø 40 mm ..... 1.000 m
- explosive bomb Ø 60 mm ..... 1.500 m
- weight of the launcher: without sight mechanism ..... 6 kg
- equipped with picatinny adaptor, optical sight TAS 11 and
- spyglass LINX 8 x 30 ..... 6,8 kgs
- rate of fire ..... 4÷6 rounds/min
- length of the launcher ..... 908 mm
- dangerous area, behind the launcher ..... 70° x 30 m

## 4) DELIVERY:

40 mm grenade launcher, together with the individual kit of spare parts, tools, and accessories is delivered in its wooden packing case. Kits for middle and capital repairs can be delivered on customer's order.

5 pieces of 40 mm launchers with individual kit are packed in wooden case:

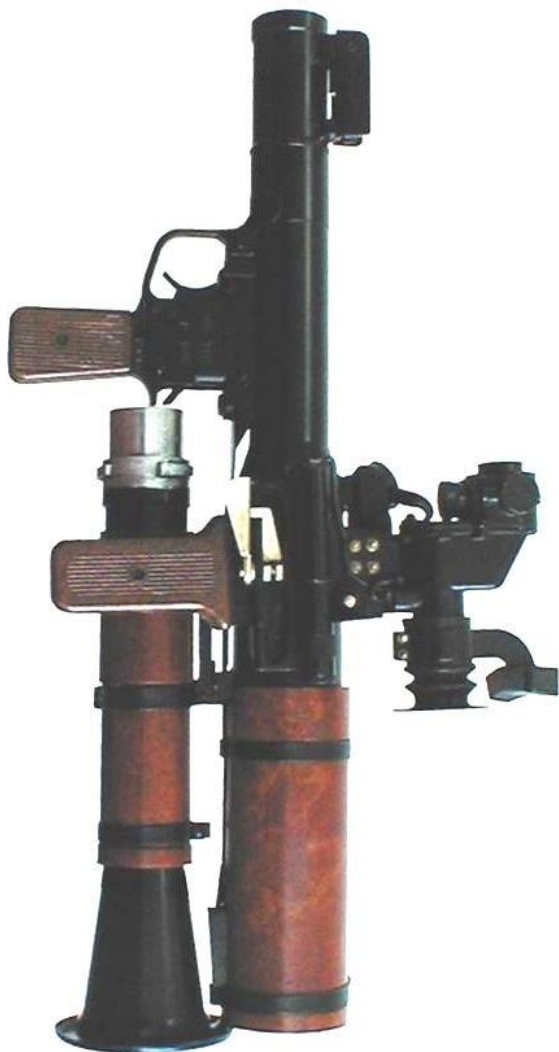
- dimensions of case ..... 1240x640x440 mm
- gross weight ..... 100 kgs
- net weight ..... 60 kgs



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## 40 MM ANTITANK GRENADES AND EXPLOSIVE BOMBS LAUNCHER TYPE RPG - 7 DS WITH OPTICAL SIGHT- PGO-7V



### 1) **DESTINATION:**

The antitank grenades and explosive bombs launcher, 40 mm caliber, is a means of fire landing force and submachine gunners squads in special missions.

The launcher is designed for destroying the tanks, truck-borne cannons, any type of car and other armored mean of fire of the enemy. For destroying the living force and the fire means of enemy, existing in wooden and earth buildings, of light type or brick buildings.

### 2) **MAIN TECHNICAL DATA:**

- Caliber..... 40 mm
- maximum range with hollow round ..... 500 m
- maximum range with: explosive bomb Ø 40 mm.....1.000 m  
explosive bomb Ø 60 mm.....1.500 m
- weight of the launcher: without sight mechanism..... 6,5 kgs  
equipped with PGO7V sight mechanism ..... 7,1 kgs
- rate of fire..... 4÷6 rounds/min
- length of the launcher: for firing ..... 908 mm  
for transportation..... 610 mm
- dangerous area, behind the launcher ..... 70° x 30 m

### 3) **DELIVERY:**

40 mm grenade launcher, together with the individual kit of spare parts, tools, and accessories is delivered in its wooden packing case. Kits for middle and capital repairs can be delivered on customer's order.

5 pieces of 40 mm launchers with individual kit are packed in wooden case:

- dimensions of case ..... 1240x640x440 mm
- gross weight..... about 100 kgs
- net weight..... about 60 kgs

# 40 MM PREFRAGMENTED BODY HIGH EXPLOSIVE STEEL BOMB ROUND FOR RPG-7 PORTABLE LAUNCHER WITH IMPACT SQ FUZE



## TECHNICAL CHARACTERISTICS

- Warhead caliber: 40 mm
- Weight:  $\approx 1,725$  kg
- Fuze: impact SQ fuze
- Maximum medium pressure:  $\leq 900$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 1000$  m
- Temperature range:  $-40^{\circ}$  C ÷  $+60^{\circ}$  C
- Precision: –  $A_p^r/X$ :  $\leq 1/50$   
–  $A_p^d/X$ :  $\leq 1/200$

## PACKING

- Wooden case containing 12 rounds fully equipped.
- Full case weight: 34 kgs
- Case overall dimensions: 705×490×275



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# 60 MM PREFRAGMENTED BODY HIGH EXPLOSIVE STEEL BOMB ROUND FOR THE RPG-7 PORTABLE LAUNCHER WITH IMPACT SQ FUZE



## TECHNICAL CHARACTERISTICS

- Warhead caliber: 60 mm
- Weight:  $\approx 2,300$  kgs
- Fuze: impact SQ fuze
- Maximum medium pressure:  $\leq 900$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 1500$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision: –  $A_p^r/X$ :  $\leq 1/40$   
–  $A_p^d/X$ :  $\leq 1/280$

## PACKING

- Wooden case containing 12 rounds fully equipped.
- Full case weight: 40 kgs
- Case overall dimensions: 895x490x280 mm



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## 40 mm HE and THERMOBARIC ROUND with IMPACT SQ FUZE FOR RPG - 7 - NEW



Ammunition with explosive and thermobaric effect responds to the demands of modern asymmetric warfare. The explosive and thermobaric ammunition combines the explosive effect with the dispersion of metallic particles, with a strong exothermic reaction and large overpressure and decompression. Ammunition is particularly effective in confined spaces, such as tunnels, buildings and different types of fortifications.

### TECHNICAL CHARACTERISTICS

- Warhead Caliber: 40 mm
- Weight:  $\approx 1,725$  kg
- Fuze: impact SQ fuze
- Maximum medium pressure:  $\leq 900$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 1000$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$

Precision:  $-A_p^r/X: \leq 1/50$

$-A_p^d/X: \leq 1/200$

### PACKING

- Wooden case containing 12 rounds fully equipped.
- Full case weight: 34 kgs
- Case overall dimensions: 705x490x275



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## 70mm HE and THERMOBARIC ROUND with IMPACT SQ FUZE FOR RPG – 7 - **NEW**



Ammunition with explosive and thermobaric effect responds to the demands of modern asymmetric warfare. The explosive and thermobaric ammunition combines the explosive effect with the dispersion of metallic particles, with a strong exothermic reaction and large overpressure and decompression. Ammunition is particularly effective in confined spaces, such as tunnels, buildings and different types of fortifications.

### TECHNICAL CHARACTERISTICS

- Warhead caliber: 70mm
- Length: 895 mm
- Weight:  $\approx 3,600$  kg
- Fuze: Impact SQ
- Maximum medium pressure:  $\leq 900$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 2500$  m
- Temperature range: -40°C to +60°C
- Precision: –  $A_p^r/X$ :  $\leq 1/40$   
–  $A_p^d/X$ :  $\leq 1/280$

### PACKING

- Wooden case containing 10 rounds fully equipped in cardboard cases.
- Full case weight: 50 kgs
- Case overall dimensions: 1000x500x300 mm



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## 70 mm HE and THERMOBARIC ROUND WITH ELECTRONIC DELAY FUZE FOR PRG-7 - NEW



Ammunition with explosive and thermobaric effect responds to the demands of modern asymmetric warfare. The explosive and thermobaric ammunition combines the explosive effect with the dispersion of metallic particles, with a strong exothermic reaction and large overpressure and decompression. Ammunition is particularly effective in confined spaces, such as tunnels, buildings and different types of fortifications. The delayed electronic fuze ensures the penetration of the walls of different thickness producing the effects behind it.

### TECHNICAL CHARACTERISTICS

- Warhead caliber: 70mm
- Length: 940 mm
- Weight:  $\approx$  4 kgs
- Fuze: electronic delay fuze with chemical battery
- Delay function: 10÷50 ms
- Maximum medium pressure:  $\leq$  900 kgf/cm<sup>2</sup>
- Maximum range:  $\approx$  2500 m
- Maximum accuracy:  $\approx$  1000 m
- Temperature range: -40°C to +60°C
- Precision: – A<sub>p</sub><sup>r</sup>/X:  $\leq$  1/40
- A<sub>p</sub><sup>d</sup>/X:  $\leq$  1/280

### PACKING

- Wooden case containing 3 rounds fully equipped in cardboard cases.
- Full case weight: 20 kgs
- Case overall dimensions: 1200x400x300 mm



## 73 MM LAUCHER SPG 9M

### 1) DESTINATION:

Antitank grenades and explosive bombs launcher, 73 mm caliber, is a strong means of fire of infantry troops and land force.

It is designed for destroying tanks, truck-borne cannons, any type of car and other armoured mean of fire of enemy. Besides, the launcher can be used also for destroying the living force and the fire means of enemy, existing in wooden and earth buildings, of light type or brick buildings.

### 2) MAIN TECHNICAL DATA:

- Caliber ..... 73 mm
- Length ..... 2110 mm
- Firing range:
  - maximum range with explosive bomb with iron cast body ..... 4.500 m
  - maximum range with explosive bomb with steel body ..... 5.400 m
  - maximum range with hollow round ..... 1.300 m
- Weight with sight mechanism ..... 52 kgs
- Range of fire with laucher put on the ground:
  - Vertical:
    - from the elevating mechanism ..... 7°40'
    - from mechanism and foot ..... -3° ÷ + 25°
  - Horizontal:
    - without moving the tripod ..... 15°
    - moving the tripod ..... nx360°
- Dangerous area, behind the laucher ..... 90°x30m

### 3) DELIVERY:

73 mm grenades and explosive bombs laucher, together with the individual kit of spare parts, tools and accessorises is delivered in its wooden packing case.

Kits for middle and capital repairs can be delivered on customer's request.

1x73 mm grenades and explosive bombs laucher + 1 individual kit are packed in wooden case:

- dimension of case ..... 2167x445x450 mm
- gross weight ..... 115 kgs
- net weight ..... 68 kgs



## TBG-9 CRF THERMOBARIC ACTIVE-REACTIVE ROUND FOR GRENADE LAUNCHER SPG - 9 - NEW



Intended for destroying the unarmed personnel and uncovered armored technique, light shelters and/or burning of fuel and ammunition deposits.

### ROUND CHARACTERISTICS

Warhead caliber: .....73 mm.  
Weight:..... $\approx 4.5$  Kgs.  
Length:.....1200mm.  
Fuze:.....impact SQ fuze  
Pressure:..... $\leq 600 \text{ Kg.f/cm}^2$ .  
Max. range:..... $\approx 1500 \text{ m}$   
Temperature range:..... $-40^\circ \text{ C} \div +60^\circ \text{ C}$   
Precision:  $Ap^r_p = \pm 0.2 \text{ m}$

$$Ap^d_r = \pm 0.3 \text{ m}$$

Firing rate:.....3 shots/min.

### PACKING

Wooden case containing 3 rounds fully equipped and 3 propelling charges



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## 73 MM HIGH EXPLOSIVE STEEL BOMB



### TECHNICAL CHARACTERISTICS

- Warhead caliber: 73 mm
- Length: 806,37 mm
- Weight:  $\approx 4,630$  kgs
- Fuze: impact SQ fuze
- Maximum medium pressure:  $\leq 600$  kgf/cm<sup>2</sup>
- Maximum range: at 25 °  $\approx 4500$  m
- Temperature range: - 40°C ÷ + 60°C
- Precision: – A<sub>p</sub><sup>r</sup>/X:  $\leq 1/140$   
– A<sub>p</sub><sup>d</sup>/X:  $\leq 1/500$

### PACKING

- Wooden case containing 6 rounds with fuze on and 6 propelling charges fully equipped.
- Full case weight: 40 kgs
- Case overall dimensions: 800x420x425 mm

## 73 MM HIGH EXPLOSIVE STEEL BOMB WITH ENHANCED RANGE



### TECHNICAL CHARACTERISTICS

Warhead caliber:	73 mm
Length	930,3 mm
• Weight:	≈ 5,300 kgs
Fuze:	impact SQ fuze
Maximum medium pressure:	≤ 660 kgf/cm <sup>2</sup>
Maximum range:	≈ 5400 m
• Temperature range:	- 40°C ÷ + 60°C
Precision: – A <sub>p</sub> <sup>r</sup> /X:	≤ 1/140
– A <sub>p</sub> <sup>d</sup> /X:	≤ 1/500

### PACKING

- Wooden case containing 12 rounds fully equipped.
- Full case weight: 45 kgs
- Case overall dimensions: 1105x450x305 mm

## 60 MM MORTAR, STANDARD TYPE 1988 MODEL



### 1) DESTINATION:

- it is a material with smooth barrel, for firing with curved trajectory;
- it is designed for fire support of infantry subunits, parachute landing force and other subunits;
- it has the following main missions: to destroy the personnel and the sheltered or unsheltered means of fire, the commando-observation posts, to set on fire the warehouse, to make passages through the mine fields, to destroy the defense works of company.

### 2) MAIN TECHNICAL DATA:

- Caliber.....60 mm
- Length of barrel ..... 1080 mm
- Firing range: maximum ..... 3000 m  
minimum..... 100 m
- Vertical firing field .....  $45^{\circ} \div 85^{\circ}$
- Horizontal firing field: without moving the bipod.....  $\pm 3^{\circ}$   
moving the bipod.....  $\pm 360^{\circ}$
- Rate of fire in the first minute  
– without remake the aiming..... 20 rounds/min
- Weight of mortar ready for battle ..... max. 20 kgs  
of which: - barrel with breechblock..... about 7,5 kgs  
– base plate..... about 4,7 kgs  
– optical sight..... 0,8 kgs

### 3) DELIVERY:

60 mm mortar, standard type 1988 model, together with the individual kit of spare parts, tools, and accessories is delivered in its wooden packing case.

Kits for middle and capital repairs can be delivered on customer's order.

1 mortar + 1 individual kit is packed in wooden case:

- dimensions of case ..... 1280x375x440 mm
- gross weight..... 75 kgs
- net weight ..... about 50 kgs



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## 60 MM LONG RANGE MORTAR 2001 MODEL



### 1) DESTINATION:

- it is a mortar with smooth barrel, for firing with curved trajectory.
- it is designed for fire support of infantry subunits, parachute landing force or other subunits.
- It has the following main missions: to destroy the personnel and the sheltered or unsheltered means of fire, the command-observation posts, to set on fire the ware house, to make passages through the mine fields, to destroy the defense works of company.

### 2) MAIN TECHNICAL DATA:

- Caliber ..... 60 mm
- Length of barrel ..... 1300 mm
- Firing range: maximum .....  $\approx 4500$  m  
minimum range ..... 100 m
- Vertical firing field .....  $45^{\circ} \div 85^{\circ}$
- Horizontal firing field:
  - without moving the bipod .....  $\pm 3^{\circ}$
  - moving the bipod .....  $\pm 360^{\circ}$
- Rate of fire in the first minute
  - without remake the aiming) ..... 20 rounds/min
- Weight of mortar ready for battle ..... 30 kgs
  - of witch: barrel with breechblock ..... 11 kgs
  - bipod ..... 10 kgs
  - base plate ..... 9 kgs
  - optical sight ..... 0,8 kgs

### 3) DELIVERY:

60 mm mortar standard type 2001 model, with the individual kit of spare parts, tools and accessorises is delivered in its wooden packing case.

Kits for middle and capital repairs can be delivered on customer's request.

1 mortar + 1 individual kit are packed in wooden case:



## 60 MM MORTAR, COMMANDO TYPE 2001 MODEL



### 1) DESTINATION:

- it is an individual means of fire;
- it is a mortar with smooth barrel, for firing with curved trajectory;
- it is designed for subunits of navy, air force, as well as for intervention units;
- it has the following main missions: to destroy the personnel and the sheltered or unsheltered means of fire, the command-observation posts, warehouses of weapon and ammunition, fuel and lubricants and radio electronic means of enemy, local fights.

### 2) MAIN TECHNICAL DATA:

- Caliber ..... 60 mm
- Length of barrel ..... 735 mm
- Firing range: with explosive bomb ..... 1900 m
- Vertical firing field ..... 45°÷85°
- Rate of fire: ..... 12 rounds/min
- Weight ..... max. 8 kgs

### 3) DELIVERY:

60 mm mortar, commando type 2001 model, together with the individual kit of spare parts, tools, and accessories is delivered in its wooden packing case.

Kits for middle and capital repairs can be delivered on customer's order.

1 mortar + 1 individual kit is packed in wooden case:

- dimensions of case ..... 1010x280x280 mm
- gross weight ..... 30 kgs
- net weight ..... about 22 kgs

## 60 MM HIGH EXPLOSIVE STEEL BOMB ROUND



### TECHNICAL CHARACTERISTICS

- Caliber: 60 mm
- Length:  $\approx 298$  mm
- Weight:  $\approx 1,500$  kgs
- Fuze: impact SQ fuze
- Maximum medium pressure:  $\leq 360$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 3000$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision:  $-A_p^f/X$ :  $\leq 1/190$   
 $-A_p^d/X$ :  $\leq 1/190$

### PACKING

- Wooden case containing 12 cardboard cases, each case containing one round fully equipped.
- Full case weight: 28 kgs
- Case overall dimensions: 415x335x300 mm



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## 60 MM SMOKE STEEL BOMB ROUND



### TECHNICAL CHARACTERISTICS

- Caliber: 60 mm
- Length: 340 mm
- Weight:  $\approx 1,900$  kgs
- Fuze: impact SQ fuze
- Propelling charge: 1 cartridge + 3 extra charges
- Maximum medium pressure:  $\leq 360$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 2200$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision: –  $A_p^r/X$ :  $\leq 1/80$   
–  $A_p^d/X$ :  $\leq 1/175$

\* STANDARD TYPE LAUNCHER

### PACKING

- Wooden case containing 12 cardboard cases, each case containing one round fully equipped.
- Full case weight: 40 kgs
- Case overall dimensions: 475x330x300 mm



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## 60 MM SMOKE STEEL BOMB WITH ELECTRONIC SQ IMPACT FUZE



### TECHNICAL CHARACTERISTICS

- Caliber: 60 mm
- Length: 370 mm
- Weight:  $\approx 2,050$  kgs
- Fuze: electronic SQ impact fuze
- Propelling charge: 1 cartridge + 3 extra charges
- Maximum medium pressure:  $\leq 360$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 2200$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision: –  $A_p^r/X$ :  $\leq 1/80$   
–  $A_p^d/X$ :  $\leq 1/175$

\* STANDARD TYPE LAUNCHER

### PACKING

- Wooden case containing 12 cardboard cases, each case containing one round fully equipped.
- Full case weight: 40 kgs
- Case overall dimensions: 475x330x300 mm



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## 60 MM HIGH EXPLOSIVE STEEL BOMB ROUND WITH ENHANCED RANGE AND M6-R FUZE



### TECHNICAL CHARACTERISTICS

- Caliber: 60 mm
- Length:  $\approx 330$  mm
- Weight:  $\approx 1,500$  kgs
- Fuze: M6-R fuze
- Maximum medium pressure:  $\leq 360$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 3000$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision:  $-A_p^f/X: \leq 1/90$   
 $-A_p^d/X: \leq 1/190$

### PACKING

- Wooden case containing 12 cardboard cases, each case containing one round fully equipped.
- Full case weight: 28 kgs
- Case overall dimensions: 415x335x300 mm



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## 60MM HIGH EXPLOSIVE STEEL BOMB ROUND WITH ENHANCED RANGE AND ELECTRONIC IMPACT SQ FUZE



### TECHNICAL CHARACTERISTICS

- Caliber: 60 mm
- Length: 355 mm
- Weight:  $\approx 2,200$  kgs
- Fuze: electronic impact SQ fuze
- Propelling charge: 1 cartridge + 3 extra charges
- Maximum medium pressure:  $\leq 500$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 4500$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision: –  $A_p^r/X$ :  $\leq 1/80$   
–  $A_p^d/X$ :  $\leq 1/180$

### PACKING

- Wooden case containing 12 cardboard cases, each case containing one round fully equipped.
- Full case weight: 40 kgs
- Case overall dimensions: 450x365x305 mm



# 81 MM MORTAR WITH ENHANCED RANGE CRF-81LR MODEL WITH DEFLECTOR

## DESCRIPTION

The 81 mm bomb mortar with enhanced range, model **CRF-81 LR**, is a smoothbore barrel, muzzle-loading, high-angle-of-fire, medium-weight weapon, for firing with curved trajectory. It is designed for fire support of infantry or navy, mountain troops, parachute landing forces and other subunits. Designed and manufactured according to NATO standards, its main features are maximum range, optimum rate of fire and interoperability with all NATO smooth bore mortar ammunition, high accuracy, easy operation and maintenance.

## PHYSICAL CHARACTERISTICS

Calibre	81mm
Barrel length	1440 mm
Weight of the mortar in firing position	51 kg
Weight of blast deflector	1.3kg

## BALLISTIC DATA

Maximum rate of fire. 15rds/min

Maximum range. .... 7000 m

Elevation ..... 800÷1511 mils (45°÷85°)



## WHY TO COOPERATE WITH US:

More than 97 years experiences in the ammunition development, production and complete services in this field.

Long tradition in ammunition production processes with significant effects as the deep skilled personal, support industries, development fields, education etc.

More information at [www.carfil.ro](http://www.carfil.ro).





## 81 MM MORTAR WITH ENHANCED RANGE CRF-81LR MODEL

### DESCRIPTION

The 81 mm bomb mortar with enhanced range, model **CRF-81 LR**, is a smoothbore barrel, muzzle-loading, high- angle-of-fire, medium-weight weapon, for firing with curved trajectory. It is designed for fire support of infantry or navy, mountain troops, parachute landing forces and other subunits. Designed and manufactured according to NATO standards, its main features are maximum range, optimum rate of fire and interoperability with all NATO smooth bore mortar ammunition, high accuracy, easy operation and maintenance.

### PHYSICAL CHARACTERISTICS

Caliber	81mm
Barrel length	1440 mm
Weight of the mortar in firing position	51 kg



### BALLISTIC DATA

Maximum rate of fire. 15 rds/min

Maximum range. .... 7000 m

Elevation ..... 800÷1511 mls (45°÷85°)

### WHY TO COOPERATE WITH US:

More than 97 years experiences in the ammunition development, production and complete services in this field.

Long tradition in ammunition production processes with significant effects as the deep skilled personal, support industries, development fields, education etc.

More information at [www.carfil.ro](http://www.carfil.ro).



## 81 MM MORTAR 1977 MODEL



### 1) DESTINATION:

Mortar with smooth barrel, for firing with curved trajectory is designed for fire support of infantry troops or other troops . It has the following missions: to destroy the personnel and the sheltered or unsheltered means of fire, the command-observation posts, to make passages through the mine fields and barbed wire net, to separate infantry from tanks, to destroy the defense works, to destroy or damage the communication ways, for illuminating and to camouflage by smoke-screen the objectives (ground).

### 2) MAIN TECHNICAL DATA:

- Caliber.....81 mm
- Length of barrel..... 1220 mm
- Firing range: maximum range with explosive bomb..... ~4.460 m  
minimum range..... 100 m
- Vertical firing field ..... 45°÷85°
- Horizontal firing field:
  - without moving the bipod, with barrel at 45° .....±3°
  - moving the bipod, without moving the base plate .....±360°
- Rate of fire in the first minute
  - without remake the aiming ..... 20rounds/min
- Weight of mortar ready for battle..... 43,5 kgs
  - of witch: barrel with breechblock..... 16,5 kgs
  - bipod ..... 11 kgs
  - base plate ..... 15 kgs
  - optical sight..... 0,8 kgs

### 3) DELIVERY:

81 mm mortar, 1977 model, together with the kit of spare parts, tools and accessorises is delivered in its wooden packing case.

Kits for middle and capital repairs can be delivered on customer's request.

1 mortar + 1 individual kit are packed in wooden case:

dimension of case ..... 1450x560x400 mm  
gross weight..... 118 kgs  
net weight ..... 77 kgs

## 81 MM HIGH EXPLOSIVE STEEL BOMB ROUND



### TECHNICAL CHARACTERISTICS

- Caliber: 81mm
- Length:  $\approx 361$  mm
- Weight:  $\approx 3,100$  kgs
- Fuze: impact SQ fuze
- Propelling charge: 1 cartridge + 5 extra charges
- Maximum medium pressure:  $\leq 650$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 4500$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision: —  $A_p^T/X$ :  $\leq 1/100$   
—  $A_n^d/X$ :  $\leq 1/200$

### PACKING

- Wooden case containing 10 cardboard cases, each case containing one round fully equipped.
- Full case weight: 53 kgs
- Case overall dimensions: 605x425x285 mm



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## 81 MM HIGH EXPLOSIVE STEEL BOMB ROUND WITH ELECTRONIC SQ IMPACT FUZE



### TECHNICAL CHARACTERISTICS

- Caliber: ..... 81 mm
- Length: .....  $\approx 386$  mm
- Weight: .....  $\approx 3250$  kg
- Fuze: ..... electronic SQ impact fuze
- Propelling charge: 1 cartridge + 5 extra charges
- Maximum medium pressure: .....  $\leq 650$  kgf/cm<sup>2</sup>
- Maximum range: .....  $\approx 4.500$  m
- Precision: –  $A_p^r/X$ : .....  $\leq 1/100$   
–  $A_p^d/X$ : .....  $\leq 1/200$

### PACKING

- Wooden case containing 10 cardboard cases, each case containing one round fully equipped.
- Full case weight: 53 kgs
- Case overall dimensions: 605x425x285 mm



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## 81 MM (AND 82 MM) HIGH EXPLOSIVE STEEL BOMB WITH ENHANCED RANGE AND EFFECT



### TECHNICAL CHARACTERISTICS

- Caliber: ..... 81mm
- Weight: ..... 4,500 kgs
- Length: ..... 517 mm
- Fuze: ..... electronic SQ impact fuze
- Propelling charge: 1 cartridge + 6 extra charges
- Maximum medium pressure: .....  $\leq 880 \text{ kgf/cm}^2$
- Maximum range .....  $\approx 6500 \text{ m}$
- Temperature range: .....  $-40^\circ\text{C} \div +60^\circ\text{C}$
- Precision: –  $A_p^f/X$  .....  $\leq 1/100$   
–  $A_p^d/X$  : .....  $\leq 1/200$

### PACKING

- Wooden case containing 10 cases, each case containing one round fully equipped.
- Full case weight: .....  $\approx 60 \text{ kgs}$
- Case overall dimensions: 745x622x260 mm



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## 81 SMOKE STEEL BOMB ROUND



### ROUND CHARACTERISTICS

Caliber	81 mm.
Weight	$\approx 4,1$ Kgs.
Length	$\approx 360$ mm.
Fuze	impact SQ fuze
Propelling charge	1 cartridge+5 extra charges.
Pressure	$\leq 650$ Kg.f/cm <sup>2</sup> .
Max. range	$\approx 4800$ m.
Temperature range:	- 40°C÷+60°C
Precision	$A_p^r \leq 1/100$ .
	$A_p^d \leq 1/200$ .

### PACKING

Wooden case containing 10 rounds completely equipped.

Weight of full case .....53 kgs.

Overall dimensions of case 605x425x285 mm.

## 81 MM (AND 82 MM) SMOKE STEEL BOMB ROUND WITH ENHANCED RANGE AND ELECTRONIC SQ IMPACT FUZE



### TECHNICAL CHARACTERISTICS

- Caliber:..... 81 mm
- Weight: .....4,500 kgs
- Length: ..... 490 mm
- Payload: ..... 774 g
- Fuze:.....electronic SQ impact fuze
- Propelling charge: 1 cartridge + 6 extra charges
- Maximum medium pressure: ..... $\leq 880$  kgf/cm<sup>2</sup>
- Maximum range..... $\approx 6.500$  m
- Precision: –  $A_p^r/X$ :..... $\leq 1/100$   
–  $A_p^d/X$  :        $\leq 1/200$

### PACKING

- Wooden case containing 10 cases, each case containing one round fully equipped.
- Full case weight:                       ~ 60 kgs
- Case overall dimensions: 745x622x260 mm

## 82 MM MORTAR 1977 MODEL



### 1) DESTINATION:

Mortar with smooth barrel, for firing with curved trajectory is designed for fire support of infantry troops or other troops .

It has the following missions: to destroy the personnel and the sheltered or unsheltered means of fire, the command-observation posts, to make passages through the mine fields and barbed wire net, to separate infantry from tanks, to destroy the defense works, to destroy or damage the communication ways, for illuminating and to camouflage by smoke-screen the objectives (ground).

### 2) MAIN TECHNICAL DATA:

- Caliber.....82 mm
- Length of barrel..... 1220 mm
- Firing range: maximum range with explosive bomb..... ~4.460 m  
minimum range..... 100 m
- Vertical firing field ..... 45°÷85°
- Horizontal firing field:
  - without moving the bipod, with barrel at 45° .....±3°
  - moving the bipod, without moving the base plate .....±360°
- Rate of fire in the first minute
  - without remake the aiming ..... 20rounds/min
- Weight of mortar ready for battle..... 43,5 kgs
  - of witch: barrel with breechblock..... 16,5 kgs
  - bipod ..... 11 kgs
  - base plate ..... 15 kgs
  - optical sight..... 0,8 kgs

### 3) DELIVERY:

81 mm mortar, 1977 model, together with the kit of spare parts, tools and accessorises is delivered in its wooden packing case.

Kits for middle and capital repairs can be delivered on customer's request.

1 mortar + 1 individual kit are packed in wooden case:

- dimension of case ..... 1450x560x400 mm
- gross weight..... 118 kgs
- net weight ..... 77 kgs

## 82 MM HIGH EXPLOSIVE STEEL BOMB ROUND



### TECHNICAL CHARACTERISTICS

- Caliber: 82mm
- Length:  $\approx 361$  mm
- Weight:  $\approx 3,100$  kgs
- Fuze: impact SQ fuze
- Propelling charge: 1 cartridge + 5 extra charges
- Maximum medium pressure:  $\leq 650$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 4500$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision: –  $A_p^T/X$ :  $\leq 1/100$   
–  $A_p^d/X$ :  $\leq 1/200$

### PACKING

- Wooden case containing 10 cardboard cases, each case containing one round fully equipped.
- Full case weight: 53 kgs
- Case overall dimensions: 605x425x285 mm



## 82 MM HIGH EXPLOSIVE STEEL BOMB ROUND WITH ELECTRONIC FUZE



### TECHNICAL CHARACTERISTICS

- Caliber: 82mm
- Length:  $\approx 361$  mm
- Weight:  $\approx 3,100$  kgs
- Fuze: electronic impact SQ with turbogenerator
- Propelling charge: 1 cartridge + 5 extra charges
- Maximum medium pressure:  $\leq 650$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 4500$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Delay of self destruction for maximum range: After 10 sec
- Precision: –  $A_p^r/X$ :  $\leq 1/100$   
–  $A_p^d/X$ :  $\leq 1/200$

### PACKING

- Wooden case containing 10 cardboard cases, each case containing one round fully equipped.
- Full case weight: 50 kgs
- Case overall dimensions: 550×450×285 mm

## 82 MM SMOKE STEEL BOMB ROUND



### ROUND CHARACTERISTICS

Caliber	82 mm.
Weight	$\approx 3,3$ Kgs.
Length	360 mm.
Fuze	impact SQ fuze
Propelling charge ...	1 cartridge+5 extra charges.
Pressure .....	$\leq 650$ Kg.f/cm <sup>2</sup> .
Max. range .....	$\approx 4300$ m.
Temperature range:	- 40°C÷+60°C
Precision.....	$A_p^r \leq 1/100$ .
	$A_p^d \leq 1/200$ .

### PACKING

Wooden case containing 10 rounds completely equipped.

Weight of full case .....53 kgs.

Overall dimensions of case 605x425x285 mm.

## 120 MM HIGH EXPLOSIVE MORTAR STEEL BOMB ROUND WITH M6-R FUZE



### TECHNICAL CHARACTERISTICS

- Caliber: 120 mm
- Length:  $\approx 680$  mm
- Weight: 15 kgs
- Fuze: M6R or other impact fuze
- Propelling charge: 1 cartridge + 6 extra charges
- Maximum medium pressure:  $\leq 1030$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 6500$  m
- Precision: –  $A_p^r/X$ :  $\leq 1/125$   
–  $A_p^d/X$ :  $\leq 1/250$

### PACKING

- Wooden case containing 2 rounds fully equipped in cardboard cases
- Full case weight: 45 kgs
- Case overall dimensions: 825x325x220 mm



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## 120MM HIGH EXPLOSIVE STEEL MORTAR BOMB ROUND WITH PROXIMITY FUZE



The 120 mm mortar bomb are equipped with a new generation of proximity fuze, specially designed for optimizing the effect at the target. The fuze have several independent safety systems, ensure a safety distance of at least 40 m and operate regardless of the type of impact area. The fuze uses a radar technology that in combination with the signal processor is able to measure very accurately the distance to up to 5 m above regardless of soil or water type. The electronic module, uses an innovative technology that allows the inhibition of the proximity function in the conditions of an enemy jamming, automatically switching to the operating mode at impact. The 120 mm mortar bomb ensure full compatibility with existing firing tables.

### TECHNICAL CHARACTERISTICS

- Caliber: 120 mm
- Length:  $\approx 725$  mm
- Weight:  $\approx 15$  kg
- Fuze: - proximity and electronic fuze with chemical battery
  - arming distance: min. 40 m
  - electronic jamming protection: cancellation
- operation of proximity and activation impact
  - height of bursting  $1 \div 5$  m
  - works over any type of terrain: dry or wet soil, sand, snow, swamp, water surface, mountain rock
- Propelling charge: 1 cartridge + 7 extra charges
- Maximum medium pressure:  $\leq 1200$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 7000$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision:  $A_p^r / X: \leq 1/125$   
 $A_p^d / X: \leq 1/250$

### PACKING

- Wooden case containing 2 rounds fully equipped in cardboard cases.
- Full case weight: 50 kgs
- Case overall dimensions: 950x360x240



## 120 MM SMOKE STEEL MORTAR BOMB ROUND WITH ELECTRONIC FUZE



### TECHNICAL CHARACTERISTICS

- Caliber: 120 mm
- Total length:  $\approx 600$  mm
- Total weight:  $\approx 15$  kgs
- Fuze: electronic impact SQ fuze
- Propelling charge: 1 cartridge + 6 extra charges
- Maximum medium pressure:  $\leq 1030$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 6400$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision: –  $A_{p^r/X}$ :  $\leq 1/100$   
–  $A_{p^d/X}$ :  $\leq 1/260$

### PACKING

- Wooden case containing 2 rounds fully equipped.
- Full case weight: 45 kgs
- Case overall dimensions: 825x325x220 mm



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## 120 MM SMOKE STEEL MORTAR BOMB ROUND



### TECHNICAL CHARACTERISTICS

- Caliber: 120 mm
- Length:  $\approx 700$  mm
- Weight:  $\approx 15$  kgs
- Fuze: M6R or other impact fuze
- Propelling charge: 1 cartridge + 6 extra charges
- Maximum medium pressure:  $\leq 1030$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 6400$  m
- Precision: –  $A_p^r/X$ :  $\leq 1/100$   
–  $A_p^d/X$ :  $\leq 1/260$

### PACKING

- Wooden case containing 2 rounds fully equipped.
- Full case weight: 45 kgs
- Case overall dimensions: 825x325x220 mm



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## 120 MM HIGH EXPLOSIVE STEEL MORTAR BOMB ROUND WITH ENHANCED RANGE AND SEALING RING WITH SQ ELECTRONIC IMPACT FUZE



The 120 mm mortar bomb are equipped with a new generation of SQ electronic impact fuze.

The new type of fuze have several independent safety systems, ensure a safety distance of at least 40 m.

The 120 mm mortar bomb ensure full compatibility with existing mortars and AMS 120 mm self-propelled mortar.

The new fuze can be used on all caliber of high explosive mortar bombs.

### TECHNICAL CHARACTERISTICS

- Caliber: 120 mm
- Length:  $\approx 730$  mm
- Weight:  $\approx 15$  kgs
- Fuze: -electronic impact SQ fuze with chemical battery  
-safety distance min. 40 m
- Propelling charge: 1 cartridge + 6 extra charges
- Maximum medium pressure:  $\leq 1200$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 7000$  m
- Temperature range: - 40°C÷+60°C
- Precision:  $A_p^r / X: \leq 1/125$   
 $A_p^d / X: \leq 1/250$

### PACKING

- Wooden case containing 2 rounds fully equipped in cardboard cases.
- Full case weight: 50 kgs
- Case overall dimensions: 950x360x240 mm



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## 120 MM HIGH EXPLOSIVE STEEL MORTAR BOMB WITH ROCKET- ASSISTED MOTOR (HERA-C5)



120 mm High Explosive Rocket Assisted - Carfil (HERA-C) mortar bomb provide increased range and lethality. HERA-C mortar bomb loaded with TNT or B composition, consist of loaded high fragmentation steel warhead, rocket motor, high powerfull propellant charges and PDSQ fuze. The 120 mm HERA-C mortar bomb is one of the most up-to-date high explosive bombs of 120 mm caliber. Its performance—especially range, and effect—is the best possible for any tactical purpose. This mortar bomb is destined for fighting uncovered living targets, as well as unarmored means of transportation and lightly armoured military vehicles. The highly explosive force, together with the best possible splinter formation, makes it a bomb of utmost efficiency. The 120 mm HERA-C was especially developed for long range mortars and offers a distinctly enhanced fragmentation effect; the excellent flight stability results in an improvement of range and dispersion. HERA-C was specially designed, both as a new bomb and for upgrading ammunition from stocks. HERA-C has the largest range with long range mortars, but can be used, also, with different 120 mm mortars.

### TECHNICAL CHARACTERISTICS

- Caliber: 120 mm
- Total Weight :  $\approx 19$  Kg
- Total length: 970 mm
- Type of Fuze: electronic PDSQ
- Rocket motor:
  - Propellant: double base
  - Length : 285 mm
  - Weight: 3,400 Kg
  - Propellant weight: 1,00 Kg
  - Average force: 144 dan
  - Specific impulse: 188 s
  - Burning time: 1,34 s
- Propelling charge: 1 cartridge + 6 supplementary charges
- Type: EI (Nitrochemie- Rheinmetall)
- Maximum range:  $\approx 14000$  m



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## 120 MM HIGH EXPLOSIVE STEEL MORTAR BOMB ROUND WITH ELECTRONIC IMPACT FUZE



The 120 mm mortar bomb are equipped with a new generation of SQ impact fuze

The new type of fuze have several independent safety systems, ensure a safety distance of at least 40 m.

The 120 mm mortar bomb ensure full compatibility with existing firing tables.

The new fuze can be used on all caliber of high explosive or smoke mortar bombs.

### TECHNICAL CHARACTERISTICS

- Caliber: 120 mm
- Length:  $\approx 725$  mm
- Weight:  $\approx 15$  kgs
- Fuze: - electronic impact fuze with chemical battery  
- arming distance min 40 m
- Propelling charge: 1 cartridge + 6 extra charges
- Maximum medium pressure:  $\leq 1200$  kgf/cm<sup>2</sup>
- Maximum range:  $\approx 7000$  m
- Temperature range:  $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Precision: –  $A_p^r/X$ :  $\leq 1/125$   
–  $A_p^d/X$ :  $\leq 1/250$

\* STANDARD TYPE LAUNCHER

### PACKING

- Wooden case containing 2 rounds round fully equipped in cardboard cases
- Full case weight: 50 kgs
- Case overall dimensions: 950x360x240 mm



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