

120mm MORTAR AMMUNITION

- HE MORTAR SHELL M62P8
- HE MORTAR SHELL M95P1
- HE MORTAR SHELL M95P1
- ILLUMINATING MORTAR SHELL M01
- ILLUMINATING MORTAR SHELL M87P1
- SMOKE MORTAR SHELL M62P3
- HIGH-SMOKE MORTAR SHELL M89
- SMOKE MORTAR SHELL M95
- PRACTICE MORTAR SHELL M63P2

Modern solutions have been applied in developing II generation shells. These include: optimised aero-dynamic shape securing external ballistic characteristics, accuracy and precision at all ranges; appliance of advanced shell body casting technology which provides forming of a great number of fragments, has been applied in production of the shell body; this technology, together with the TNT/RDX explosive charge provides optimum efficiency at target. The new generation shell weight corresponds to the heavy shell weights of the previous generation and importantly increased their range, precision and terminal efficiency.

A masking of movements of friendly troops, as well as blinding of enemy observers and fire support and anti-tank weapon crews is achieved by use of modern, low-drag and highly efficient white phosphorus - based smoke shells.

With use of illuminating mortar shells, mortars provide night battlefield illumination, as well as blinding of enemy crews and observers.

Employment of radar - doppler type, proximity fuse used with HE shells importantly increases the shells terminal efficiency.

The shells are completed with fuzes which are also indigenously produced: point detonation, superquick/delay fuzes, time pyrotechnical fuzes, time electronic digital fuzes with permanent memory and non-contact timing, and proximity fuzes, radar-doppler type.

The development of cargo-type mortar shells, with dual-effect (shaped charge and fragmentation) bomblets and electronic, digital, permanent memory, contactless timing, time fuses, as well as terminal guided mortar shells with IR dual-color homing head, will dramatically improve mortar capability.



• HE MORTAR SHELL M62P8

The main technical data	M62P8
Length of shell with fuze	610 mm
Mass of mortar shell with fuze	12,6 kg
Explosive charge is hexolite (RDX/ TNT) OR trotyl (TNT)	
Mass of explosive charge	2,5 kg
Shell is assembled with impact fuze UTU M93P1 SQ/D	
Muzzle safety at lowest initial speed is	50 m
Killing range (1 penetration / m ²) - radius	20 m
Shell is completed with ignition cartridge and six increment charges (0+6).	
Ignition cartridge M74	
Reliable function of shell is obtained at temperature range of -30°C to 50°C.	
High safety during transportation, handling and parachuting.	
BALISTIC DATA	
When using 120 mm Mortar M75, barrel length 1500 mm:	
Maximum range (0+6)	6500 m
Minimum range (0+1)	255 m
Max mean operating pressure in mortar	961 bars



PACKING

1 complete shell per carton	Box dimensions	71x35x18 cm
2 carton per wooden box	Total mass	38 kg
	Total volume	0,045 m ³

• HE MORTAR SHELL M95 /M95P1

The main technical data	M95	M95P1
Length of shell with fuze	800 mm	800 mm
Mass of mortar shell with fuze	14,8 kg	14,8 kg
Explosive charge is hexolite (RDX/ TNT) OR trotyl (TNT)		
Mass of explosive charge	2,9 kg	2,9 kg
Shell is assembled with impact fuze UTU M93P1 SQ/D		UTU M88
Muzzle safety at lowest initial speed is	50 m	50 m
Killing range (1 penetration / m ²) - radius	24 m	24 m
Shell is completed with ignition cartridge and eight increment charges (0+8).		
Ignition cartridge M95	waterproof	waterproof
Reliable function of shell is obtained at temperature range of -30°C to 50°C.		
High safety during transportation, handling and parachuting.		
BALISTIC DATA		
When using 120 mm Mortar M75, barrel length 1500 mm:		
Maximum range (0+8)	7400 m	9200 m
Minimum range (0+1)	255 m	275 m
Max mean operating pressure in mortar	961 bars	1300 bars

PACKING

1 complete shell per carton	Box dimensions	93x35x18 cm
2 carton per wooden box	Total mass	44 kg
	Total volume	0,058 m ³





• ILLUMINATING MORTAR SHELL M87P1 /M01

The main technical data	M87P1	M01
Lenght of shell with fuze	670 mm	752 mm
Mass of mortar shell with fuze	10,7 kg	11,5 kg
Mass of illuminating candle	1.2 kg	1.2 kg
Shell is completed with TP M87 pyrotechnic time fuze.		
Illuminating power	1.000.000 Cd for 60 s	
Mean rate of parachute descent with candle	3 m/s	
Shell is completed with ignition cartridge and five increment charges (0+5).		
Ignition cartridge M74	waterproof	
Reliable function of shell is obtained at temperature range of -30°C to 50°C.		
High safety during transportation, handling and parachuting.		

BALISTIC DATA

When using 120 mm Mortar M75, barrel length 1500 mm:

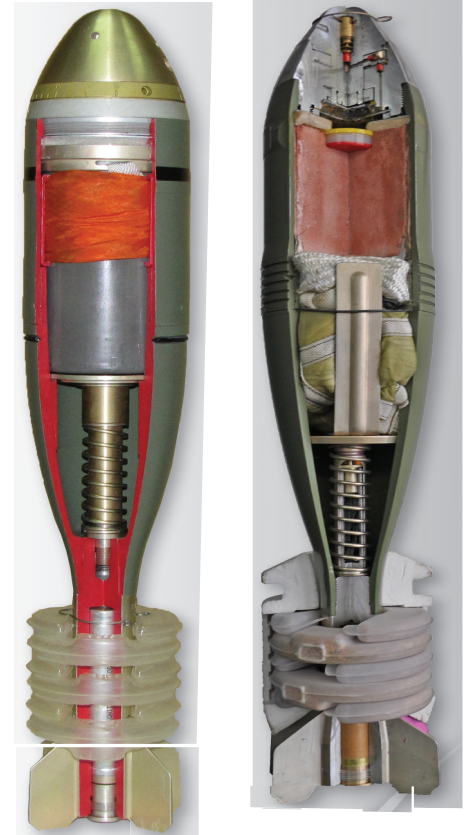
Maximum range (0+5)	6000 m	6600 m
Minimum range (0+1)	400 m	400 m
Max mean operating presure in mortar	620 bars	980 bars

PACKING M01

1 complete shell per carton	
2 carton per wooden box	
Box dimensions	86x35x18 cm
Total mass	37 kg
Total volume	0,054 m ³

PACKING M87P1

1 complete shell per carton	
2 carton per wooden box	
Box dimensions	78x35x18 cm
Total mass	35 kg
Total volume	0,049 m ³



• SMOKE MORTAR SHELL M62P3/ M95

The main technical data	M62P3	M95
Lenght of shell with fuze	600 mm	800 mm
Mass of mortar shell with fuze	12,6 kg	14,8 kg
Weight of smoke charge (WP)	2,45 kg	
Shell is assembled with impact fuze UT M88P1.		UT M88P1
Muzzle safety at lovest initial speed is	70 m	70 m
Shell is completed with ignition cartridge and six increment charges (0+6).		
Ignition cartridge M74	waterproof	
Reliable function of shell is obtained at temperature range of -30°C to 50°C.		
High safety during transportation, handling and parachuting.		

BALISTIC DATA

When using 120 mm Mortar M75, barrel length 1500 mm:

Maximum range (0+6)	6500 m	7400 m
Minimum range (0+1)	255 m	255 m
Max mean operating presure in mortar	961 bars	961 bars

PACKING M62P3

1 complete shell per carton	
2 carton per wooden box	
Box dimensions	71x35x18 cm
Total mass	38 kg
Total volume	0,045 m ³

PACKING M95

1 complete shell per carton	
2 carton per wooden box	
Box dimensions	93x35x18 cm
Total mass	44 kg



• HIGH-SMOKE MORTAR SHELL M89

The main technical data	M89
Lenght of shell with fuze	670 mm
Mass of mortar shell with fuze	11,25 kg
Mass of smoke pot (HC compozition)	1,65 kg
Shell is completed with TP M87 pyrotechnic time fuze	
Shell is completed with ignition cartridge and five increment charges (0+5).	
Ignition cartridge M74	
Reliable function of shell is obtained at temperature range of -30°C to 50°C.	
High safety during transportation, handling and parashuting.	
BALISTIC DATA	
When using 120 mm Mortar M75, barrel length 1500 mm:	
Maximum range (0+5)	6000 m
Minimum range (0+1)	400 m
Max mean operating presure in mortar	620 bars

PACKING

1 complete shell per carton	Box dimensions	78x35x18 cm
2 carton per wooden box	Total mass	36 kg
	Total volume	0,049 m ³



• PRACTICE MORTAR SHELL M63P2

The main technical data	M63P2
Lenght of mortar shell - launcher	508 mm
Projectile lenght	280 mm
Mass of mortar shell - launcher	11600 g
Mass of projectile	400 g
BALISTIC DATA	
Maximum range	500 m
Minimum range	50 m

PACKING

1 complete shell per carton	Box dimensions	71x35x18 cm
2 carton per wooden box	Total mass	32 kg
	Total volume	0,045 m ³

