

130mm Cannon
Type **59-1**



130mm Cannon Type 59-1



► General Description

The 130mm Cannon Type 59-1 can effectively neutralize and destroy troops, tank units, artilleries, permanent installations and reinforced field fortifications or warships. The complete system includes gun, ammunition, prime mover and field artillery fire control system. Various shells are available such as HE, HE-I, Illuminating, Smoke, Range-extended HE, BB HE, RA/BB HE, BB HE cargo, APERS shells, and etc..

► Principal Data

<u>Caliber</u>	130 mm
<u>Muzzle Velocity (HE shell full charge)</u>	930 m/s
<u>Max. Range</u>	
-HE shell	27,490 m
-HE BB shell	38,000 m
-HE RA/BB shell	45,000 m
<u>Elevation</u>	-2.5°~+ 45°
<u>Traverse</u>	28° (left) 30° (right)
<u>Rate of Fire</u>	8~10 rds/min.
<u>Total Weight (traveling position)</u>	6,300 kg
<u>Dimension (traveling position)</u>	10,800×2,420×2,520 mm
<u>Max. Towed Speed</u>	60 km/h

122mm

Vehicle-mounted Howitzer



122mm

Vehicle-mounted Howitzer



► General Description

The 122mm Vehicle-mounted Howitzer is an upgraded version of the PL96 Howitzer, featured with high maneuverability and easy operation. With the improved ammunition, it can provide better fire support to ground troops.

► Principal Data

<u>Caliber</u>	121.9 mm
<u>Muzzle Velocity</u>	
-HE	≥713 m/s
-HE BB	≥725 m/s
<u>Max. Range</u>	
-HE	≥18,000 m
-HE BB	≥22,000 m
<u>Min. Range</u>	5,500 m
<u>Rate of Fire</u>	8 rds/min.
<u>Weight</u>	16.5 t
<u>Crew</u>	5
<u>Ammunition Capacity</u>	40 rds
<u>Dimension</u>	8,030×2,640×2,920 mm
<u>Max. Road Speed</u>	85 km/h
<u>Max. Road Range</u>	600 km
<u>Fire Preparation Time</u>	≤1.5 min.
<u>System Reaction Time</u>	≤30 s
<u>Ambient Temperature</u>	-40~+50
<u>Storage Temperature</u>	-43~+70

122mm Howitzer
Type **PL96**



122mm Howitzer Type **PL96**



► General Description

Based on Russian 122 mm D-30 Howitzer, the 122mm Howitzer Type PL96 is an upgraded version featured with high reliability and easy operation. With the improved ammunition, the PL96 can provide better fire support to ground troops.

► Principal Data

<u>Caliber</u>	121.9 mm
<u>Muzzle Velocity</u>	
-HE	≥713 m/s
-HE BB	≥725 m/s
<u>Max. Range</u>	
-HE	18,000 m
-HE BB	22,000 m
<u>Min. Range</u>	5,500 m
<u>Rate of Fire</u>	8 rds/min.
<u>Elevation</u>	-7°~+ 70°
<u>Traverse</u>	
-Elevation between -7°~ + 20°	360°
-Elevation between +20°~ + 70°	124°
<u>Dispersion</u>	
-HE	
Longitudinal	1/300
Lateral	17 m
-HE BB	
Longitudinal	1/200
Lateral	20 m
<u>Length of Barrel Assembly</u>	5,244 mm
<u>Dimension (traveling position)</u>	5,400×1,950×1,660 mm
<u>Total Weight (firing position)</u>	3,280 kg
<u>Total Weight (traveling position)</u>	3,370 kg

122mm Multiple
Rocket Launcher
Type **81**



122mm Multiple Rocket Launcher Type 81



► General Description

The 122mm Multiple Rocket Launcher Type 81 consists of a 40-round 122 mm multiple rocket system, mounted on the heavy duty 6×6 truck chassis. It is a matured weapon system with excellent performance-to-price ratio. Benefiting from the improved ammunition, it can provide longer range fire support to ground troops.

The complete system also includes loading vehicles and easy-operated fire control devices.

► Principal Data

Quantity of Launch Tubes	40
Elevation	0°~+55°
Traverse	172°
Salvo Time	18~22 s
Weight (with rockets)	15,160 kg
Rocket Data	
-Diameter	122 mm
-Length (with fuze)	2,870 mm
-Weight	66.65 kg
-Max. flight speed	690 m/s
Max. Range	32.7/40 km
Min. Range	12.7 km



Loading Vehicle



▶ General Description

The loading vehicle is used to reload the rockets. It can rapidly reload the rockets into the launch tubes mechanically.

▶ Principal Data

Loading Time	≤5 min.
Shifting	
-Vertical	±100 mm
-Longitude	2,520 mm
Tilting	
-Transverse	≤5°
-Longitude	≤5°
Dimension (travelling position)	7,120×2,500×2,900 mm
Wight of Vehicle	
-Without rockets	11,800 kg
-With 40 rds of rockets	14,500 kg
Max. Road Speed	60 km/h
Min. Turning Radius	9 m
Ground Clearance	355 mm
Fording	1,200 mm

100mm Mortar
Type **89**



100mm Mortar Type 89



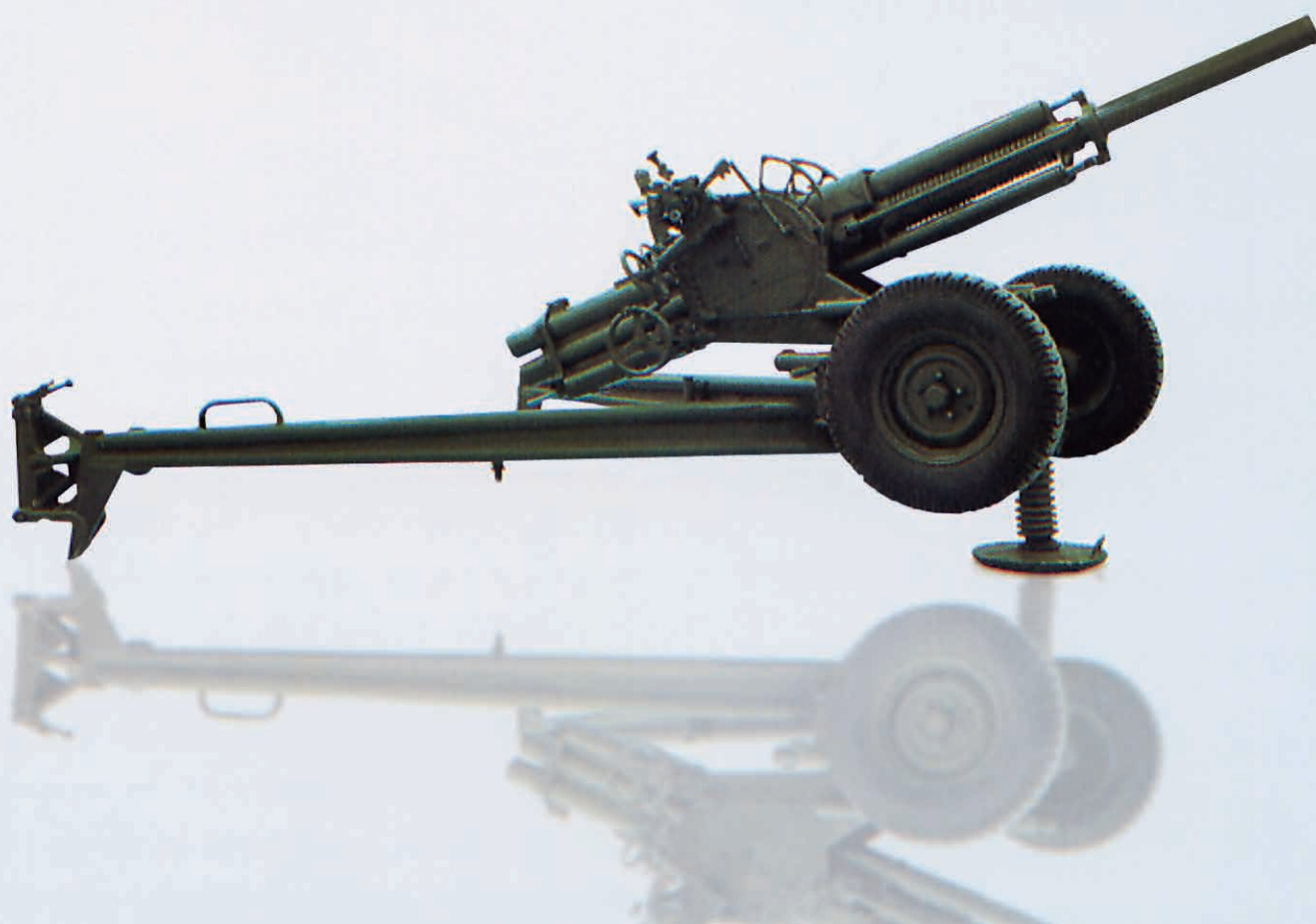
► General Description

The 100mm Mortar Type 89 is mainly designed to neutralize or destroy the hostile personnel and military facilities, in the mean time to accomplish various other missions such as battlefield illumination, IR/Visual jamming, propaganda, and etc.. It is most ideal for operations in mountainous and alpine areas, and is an important equipment for task forces.

► Principal Data

Caliber	100 mm
Muzzle Velocity	305 m/s
Range	210~6,500 m
Rate of Fire	19~23 rds/min.
Elevation	+43°~+ 81°
Traverse	-4°~+ 4°
Total Weight	73 kg
Weight of HE Shell	8 kg
Ambient Temperature	-40~+ 50
Ammunition Type	HE, Smoke, Steel-ball APERS, Illuminating, Incendiary, Propaganda

81/82mm Rapid Fire Mortar
Type **PP02**



81/82mm Rapid Fire Mortar Type **PP02**



► General Description

The 81/82mm Rapid Fire Mortar Type PP02 is known for its rapid fire in single or burst mode, and has towed and vehicle-mounted versions. It can perform flat fire or curved fire to destroy direct or indirect targets. The mortar also includes lighting device and firing data calculator.

► Principal Data

Caliber	81 mm	82 mm
Min. Range	800 m	800 m
Max. Range	4,000 m	4,200 m
Total Weight	650 kg	695 kg
Muzzle Velocity	272 m/s	272 m/s
Rate of Fire	4 rds/1.5 s	4 rds/1.5 s
Ground Clearance	260 mm	260 mm
Tyre Tread	1,414 mm	1,414 mm
Max. Towed Speed		
-Road	60 km/h	60 km/h
-Off road	20 km/h	20 km/h
Field of Fire		
-Traverse	-30°~+30°	-30°~+30°
-Elevation	-1°10'~+85°	-1°10'~+85°
Ambient Temperature	-40~+50	-40~+50
Shell Type	HE	HE

82mm Mortar
Type **87**



82mm Mortar Type 87



► General Description

The 82mm Mortar Type 87 is of simple structure, easy operation and maintenance, small size and light weight.

► Principal Data

Caliber	82 mm
Shell Weight	4.2 kg
Min. Range	120 m
Max. Range	4,600 m
Total Weight	39.7 kg
Muzzle Velocity	265 m/s
Barrel Weight	15.5 kg
Bipod Weight	8.7 kg
Baseplate Weight	15.5 kg
Sight Weight	0.9 kg
Field of Fire	
- Traverse	-3.5°~+3.5°
- Elevation	+45°~+85°
Ambient Temperature	-40~+50
Shell Type	HE, Shrapnel, Smoke, Illuminating

81 mm Long-range Mortar
Type **W91**



81mm Long-range Mortar Type **W91**



► General Description

The 81mm Long-range Mortar Type W91 features simple structure, easy operation and maintenance. It is suitable for supporting infantry operations under complicated terrain and adverse weather conditions.

► Principal Data

Caliber	81.4 mm
Muzzle Velocity	376 m/s
Weight of HE Shell	5.72 kg
Min. Range	120 m
Max. Range	8,000 m
Total Weight	65 kg
Barrel Weight	26.7 kg
Bipod Weight	12.6 kg
Baseplate Weight	25.7 kg
Sight Weight	0.9 kg
Field of Fire	
- Traverse	-3.5° ~ +3.5°
- Elevation	+45° ~ +85°
Rate of Fire	30 rds/min.
Ambient Temperature	-40 ~ +50

60mm Mortar
Type **WW90**



60mm Mortar
Type **WW90**



► General Description

The 60mm Mortar Type WW90 is of small size, light weight, easy operation and maintenance, minimum requirement for firing position. The mortar is suitable for infantry operations under complicated terrain and adverse weather conditions.

► Principal Data

Caliber	60.75 mm
Muzzle Velocity	318 m/s
Weight of HE Shell	2.3 kg
Min. Range	130 m
Max. Range	5,700 m
Total Weight	21.5 kg
Barrel Weight	8 kg
Bipod Weight	7.3 kg
Baseplate Weight	6.2 kg
Sight Weight	0.5 kg
Field of Fire	
- Traverse	-3.5°~+3.5°
- Elevation	+45°~+85°
Rate of Fire	30 rds/min.
Ambient Temperature	-40~+50
Shell Type	HE, Shrapnel