

Surface-to-surface Tactical
Missile Weapon System
Type **P12**



Surface-to-surface Tactical Missile Weapon System Type **P12**

► General Description

The Surface-to-surface Tactical Missile Weapon System Type P12 is a short range, solid propellant, surface-to-surface tactical missile weapon system featured with high accuracy, excellent mobility and easy operation. Equipped with different types of warheads, it can effectively attack various tactical targets. A basic combat system consists of a command vehicle, three launcher vehicles, three transport vehicles, three reload vehicles and twelve missiles.



► Principal Data

<u>Range</u>	50~150 km
<u>Firing Accuracy (CEP)</u>	
-Inertial guidance system	80~120 m
-Integrated guidance system	30~50 m
<u>Warhead Weight</u>	450 kg
<u>Warhead Type</u>	Integrated blast warhead Blast cluster warhead
<u>Launching Direction</u>	0°~360°
<u>Launching Preparation and Withdrawal Time</u>	
-Launching preparation time	≤18 min.
-Interval between launches	3~5 min.
-Withdrawal time	≤5 min.
<u>System Reliability</u>	
-Launching reliability	≥ 0.9 (confidence 0.8)
-Flight reliability	≥ 0.9 (confidence 0.8)
<u>Maneuverability</u>	
-Max. range	450 km
-Max. road speed	80 km/h

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Operational Conditions

-Ambient temperature	-20~+50
-Humidity	≤98% (+25)
-Ground wind speed while launching	15 m/s
-Max. instantaneous wind speed	≤22.5 m/s
-Altitude	≤2,500 m
-Visibility	≥ 50m
-Road conditions	Highway and cross-country

Storage Conditions

-Temperature	+5~+30
-Humidity	≤ 75% (+15)

Shelf Life

7 years

Missile Parameters

-Missile length	6,312 mm
-Missile diameter	600 mm
-Wing span	1,200 mm
-Warhead length	2,082 mm
-Missile weight	2,070 kg
-Warhead weight	450 kg

Long-range Multiple
Launch Rocket System
Type **A100**



Long-range Multiple Launch Rocket System Type **A100**



► General Description

The Long-range Multiple Launch Rocket System Type A100 comprises a command vehicle, launch vehicles and transport/reload vehicles. The launch vehicle consists of the launch platform and 10 launch-tubes/stacks. The rocket has an on-board simple control system to assure high accuracy and high density fire. Its warhead adopts dual-purpose (anti-armor and anti-personnel) cluster with high firepower to attack group and area targets.

► Principal Data

Max. Range	80 km
Min. Range	40 km
Dispersion at Max. Range	< 1/300
Accuracy at Max. Range	< 0.6%
Rocket Diameter	300 mm
Max. Warhead Weight	235 kg
Launch Vehicle Capacity	10 rds
Salvo Time	< 1 min.
Preparation Time	< 8 min.
Withdrawal Time	< 3 min.
Reloading Time	< 20 min.
Max. Road Speed	80 km/h
Ambient Temperature	-40~+50
Operational Altitude	≤3,000 m
Shelf Life	10 years

Guided Multiple Launch Rocket System
Type **WS-3**



Guided Multiple Launch
Rocket System
Type **WS-3**



► General Description

WS-3 High Accuracy Guided Multiple Launch Rocket System adopts GPS/INS integrated navigation and full range control technology, which greatly improve the firing accuracy. It can be equipped with various types of warheads featured with long-range, high accuracy, strong firepower in salvo, fast operation response and convenient maintenance.

► Principal Data

Diameter	400 mm
Total Length	7,150 mm
Mass of Warhead	200 kg
Max. Range	200 km
Min. Range	70 km
No. of Rockets	6 racks
Firing Accuracy (CEP)	300 (INS), 50 (INS+GPS)
Type of Motor	Solid

**Long Range Striking
Weapons**

Long-range Multiple
Launch Rocket System
Type **WS-2**

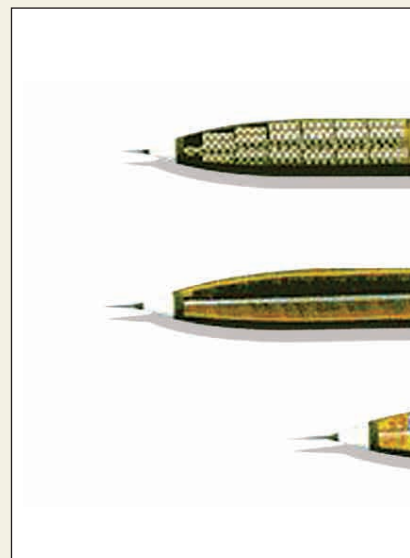
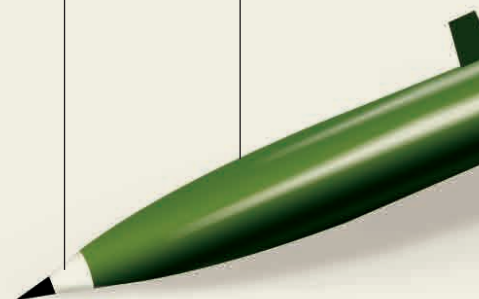


Long-range Multiple Launch Rocket System Type **WS-2**

► General Description

The Long-range Multiple Launch Rocket System (MLRS) Type WS-2 is an advanced guided MLRS featuring long-range, high accuracy, strong firepower, quick reaction and easy maintenance. The six storage-transport-launch tubes are mounted to a wheeled cross-country chassis. Equipped with various warheads, the WS-2 MLRS can effectively neutralize different kinds of in-depth area targets.

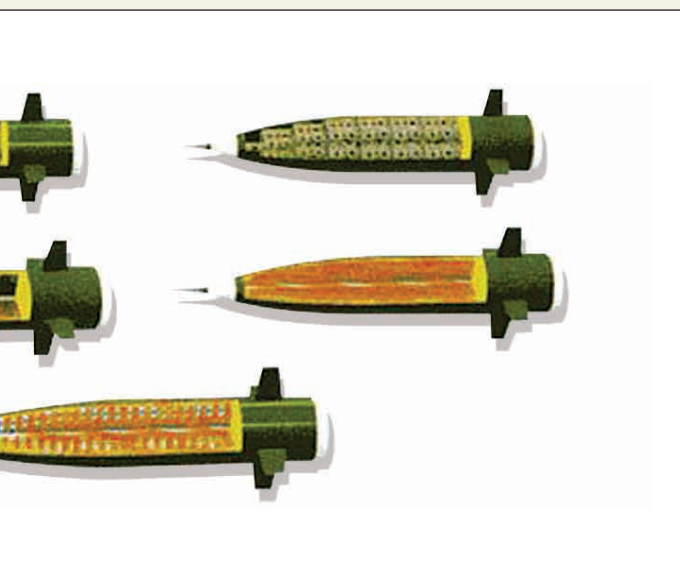
- Fuse
- Warhead





○ Control system

○ Solid motor



- Long range
- High accuracy
- High maneuverability
- Quick reaction
- Easy operation
- High reliability

Long-range Multiple
Launch Rocket System
Type **WS-2**



► Principal Data

<u>Max. Rang</u>	200 km
<u>Min. Rang</u>	70 km
<u>Firing Accuracy</u>	
-Dispersion	< 1/600
-Accuracy (CEP)	< 3‰
<u>Warhead Weight</u>	200 kg
<u>Warhead Type</u>	Anti-personnel & armor-piercing Dual-purpose cluster warhead
<u>Launching Direction</u>	Slant firing
<u>Launch Preparation Time</u>	≤ 12 min.
<u>Launch Vehicle Capacity</u>	6 rds
<u>Operational Conditions</u>	
-Temperature	-20~+55
-Humidity	≤ 98% (+35)
-Wind speed	≤ 8 m/s
-Altitude	≤ 3,500 m
-Rainfall and snowfall	≤ 8 mm/h
<u>Storage Conditions</u>	
-Temperature	+10~+30
-Humidity	≤ 75% (+25)
<u>Shelf Life</u>	10 years

**Long Range Striking
Weapons**

Long-range Multiple
Launch Rocket System
Type **WS-1B**



Long-range Multiple
Launch Rocket System
Type **WS-1B**

► General Description

The Long-range Multiple Launch Rocket System (MLRS) Type WS-1B, featured with long range and cost efficiency, is an advanced and multi-purpose rocket system with 4-tube launcher mounted onto the high-mobile wheeled cross-country chassis.

The WS-1B MLRS is mainly used for attacking area targets in depth, such as military bases, airports, naval fleets, communication hubs and other important targets. Equipped with various warheads, the rockets can also attack the armored group targets, artillery units, missile launch sites, ground radar stations and command & control centers.



- High maneuverability
- Quick reaction
- Easy operation
- High reliability
- Multi-purpose



Long-range Multiple
Launch Rocket System
Type **WS-1B**



► Principal Data

Launch Preparation Time	20 min.
Launch Mode	Salvo or single launch
Max. Range	180 km
Min. Range	60 km
Dispersion	1.0~1.25%
Max. Flight Speed	M=5.2
Rocket Length	6,376 mm
Rocket Diameter	302 mm
Warhead Weight	150 kg
Warhead Type	HE
Operational Conditions	
-Altitude	≤ 3,000 m
-Temperature	-30~+55
-Humidity	≤ 98% (+25)
-Wind speed	≤ 8 m/s
-Rainfall and snowfall	≤ 3 mm/h
Storage Conditions	
-Temperature	+10~+30
-Humidity	≤ 80% (+25)
-Shelf life	10 years