



## Sealed Pod

The T-107/122 is a launching platform with superior fire power that can fire 60 rounds of 107 mm rockets or 20 rounds of 122 mm rocket/missiles. It uses sealed and thermally-insulated composite rocket pods for 107 mm and 122 mm rockets/missiles.

## Multi Caliber Launch

The T-107/122 Launcher has the capability to launch both 107 mm rockets and 122 mm rockets / missiles, giving T-107/122 units the capability to cover a target area from less than one kilometer to up to more than 40 kilometers in range. Depending on the threat and the mission, it can be loaded in advance with the required type of rockets or missiles.

## Technical Specifications

|                     |   |
|---------------------|---|
| Diameter            | 107/122 mm  |
| Number of Tubes     | Sealed and Thermally Insulated Pods<br>60 (3 x 20) 107 mm<br>20 (1 x 20) 122 mm |
| Min. Salvo Interval | 1 sec   |
| Vehicle             | 4 x 4 or 6 x 6 Tactical Wheeled Vehicle   |
| Cradle Laying       | Automatic by Weapon Management System<br>Manual Back Up                         |
| Stabilization       | 4 Hydraulic Jacks   |
| Navigation System   | INS/GPS   |



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**T-107/122 MBRL Weapon System**



## T-107/122 MBRL Weapon System

T-107/122 Multi-Caliber and Multi-Barrel Rocket Launching (MBRL) System The T-107/122 MBRL System is a highly mobile modern fire support system which performs mass lethal fire with 107 mm and 122 mm rockets and missiles from a close battle area to a depth of more than 40 kilometers. In addition to 107 mm and 122 mm rockets, the system has a flexible structure to fire other types of rockets and guided munitions of the future.

In addition to the launchers regarding the minimum battery configuration needs and in the framework of the customer-focused system approach to augment the effective usage of the T-107/122 MBRL System, ROKETSAN also designs and promotes critical support vehicles such as the Command & Control Vehicle, the Ammo Supply Vehicle, the MET Vehicle and the Repair Vehicle.



## T-107/122 MBRL Battery Structure

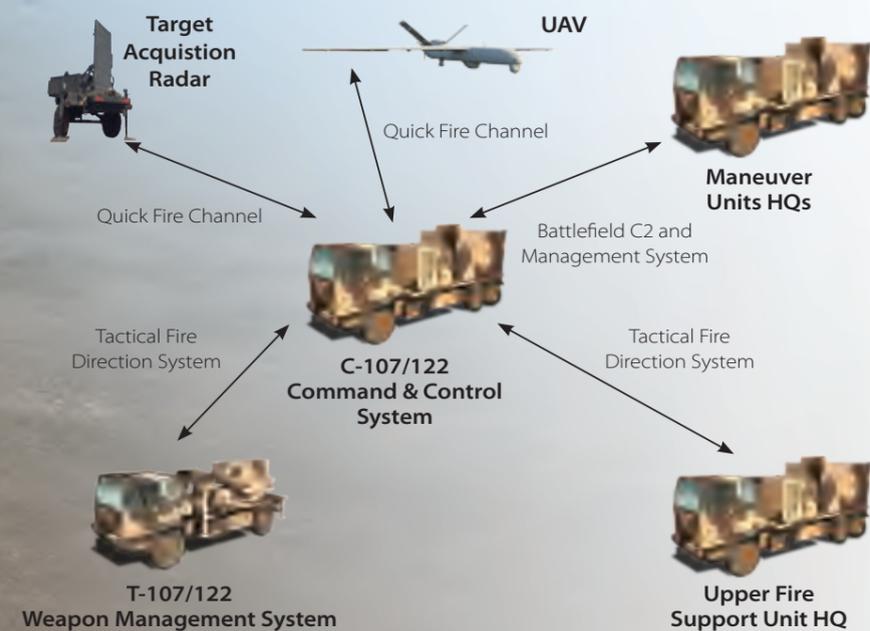
The T-107/122 MBRL Battery is capable of performing independent missions by the use of mission support vehicles. A typical T-107/122 battery is composed of 1 x C-107/122 Command & Control Vehicle, 6 x T-107/122 Launcher, 6 x L-107/122 Ammo Supply Vehicles, 1 x M-107/122 MET Vehicle and 1 x R-107/122 Repair Vehicle. The number and type of vehicles can be customized according to the customer's requirements.



6 x T-107/122 Launcher      6 x L-107/122 Ammo Supply Vehicle      M-107/122 MET Vehicle  
C-107/122 Command Control Vehicle      R-107/122 Repair Vehicle

## Integration with Tactical Fire Direction System, Battlefield C2 and Management System and Target Acquisition Systems

## A Typical T-107/122 Battery Organization



The Command & Control System and Weapon Management System of the battery can be integrated with modern fire-support automation (tactical-fire direction system) and battlefield command-control and management systems. It provides an integration opportunity with onboard or an assigned target acquisition radar or unmanned aerial vehicles.

### C-107/122 Command & Control Vehicle

The C-107/122 Command & Control Vehicle coordinates missions on battery level connecting with higher command. The C-107/122 is a mission vehicle that provides the management of technical fire and the command and control functions in order to manage the battery. The C-107/122 can be used as the Command & Control Vehicle at battalion level as well.

- › 4 x 4 or 6 x 6 Tactical Wheeled Vehicle
- › Air-Conditioned, EMI/EMC Protected Shelters in NATO Standards
- › Command Control System
- › Communication System (Wired/Wireless Voice-Data)
- › Low Altitude Meteorological System
- › Ground Meteorological System
- › Power Supply and Distribution System
- › Five Man Crew

### T-107/122 Launcher

The T-107/122 Launcher is a highly mobile system with superior fire power which is capable of firing 60 x 107 mm rockets or 20 x 122 mm rockets or missiles within a short period.

- › 4 x 4 or 6 x 6 Tactical Wheeled Vehicle
- › Multi-Caliber Cradle for 107 mm Caliber 3 x 20 and 122 mm Caliber 1 x 20 Sealed and Thermally Insulated Rocket and Missile Pods
- › Sealed Pods Against Adverse Weather and Environmental Conditions and Minimized Loading Time
- › INS/GPS Navigation System
- › Day and Night Direct Fire Capability for 107 mm Rockets (Optional)
- › Automatic Laying System with the Use of INU
- › Weapon Management System
- › Wired/Wireless - Voice/Data Communication System
- › Hydraulic Stabilization System
- › Integrated Ground Meteorology System
- › Cabin Pressurization System (Optional)
- › Power Supply and Distribution System
- › Local (Inside Driver's Cab) or Remote Firing Capability
- › Ballistic Protection (Optional)
- › Ready to Fire in Maximum 5 Minutes
- › Negative Elevation
- › Two Man Crew

### L-107/122 Ammo Supply Vehicle

The L-107 /122 Ammo Supply Vehicle is the mission vehicle which performs ammunition transportation, loading the T-107/122 in all weather and terrain conditions in the field.

- › 6 x 6 or 8 x 8 Tactical Wheeled Vehicle
- › Integrated Ammunition Supply Crane
- › Hydraulic Stabilization System
- › Communication System (wired/wireless voice)
- › Three Man Crew

### M-107/122 Meteorological (MET) Vehicle

The M-107/122 has a High Altitude MET System and a Ground MET System. The M-107/122 MET Vehicle provides the required high altitude meteorological reports and sends them to the C-107/122 Command & Control Vehicle and to the T-107/122 Launcher for the ballistic calculation before firing.

- › 4 x 4 or 6 x 6 Tactical Wheeled Vehicle
- › Air-Conditioned, EMI/EMC Protected Shelters in NATO Standards
- › Power Supply and Distribution System
- › High Altitude Meteorological (MET) System
- › Ground Meteorological (MET) System
- › Communication System (Wired/Wireless Voice-Data)
- › Three Man Crew

### R-107/122 Repair Vehicle

The R-107/122 is a mission support vehicle which performs maintenance and repair functions in the field at a unit level within a T-107/122 battery. The R-107/122 can be used as a second-level maintenance vehicle at battalion level as well.

- › 6 x 6 Tactical Wheeled Vehicle
- › Air-Conditioned, EMI/EMC Protected Shelters in NATO Standards
- › Hydraulic Crane
- › Recovery Winch
- › Power Supply and Distribution System
- › Communication System (Wired/Wireless Voice-Data)
- › Repair & Maintenance Kits
- › Three Man Crew

### Shoot and Scout

The T-107/122 Launcher has shoot-and-scout capability with its high-tech navigation and automatic laying systems. It has an INS/GPS navigation system and automatic laying system integrated to the weapon management system. It is able to fire in maximum 5 minutes after stopping on the firing position and accomplishment of the fire mission, it can leave the position in maximum 5 minutes for the next positions. Therefore, the T-107/122 can carry out many fire missions in a very short period on the battlefield and then can be ready for the next missions.

### Direct Fire (Optional)

The T-107/122 Launcher has a direct fire system to launch 107 mm rockets. ROKETSAN TR-107 rockets have perfect accuracy and dispersion characteristics because of their design. In addition to the distinctive airframe/aerodynamic design, due to lack of spin stabilizer fins, it is affected by wind at minimum level especially during the boost phase. Its hydraulic stabilization system augments the minimum dispersion ability as well. For that reasons, rockets can hit the target accurately and create mass fire on the target with minimum dispersion so that TR-107 rockets can be fired not only on area targets but also on small targets. The Launcher Commander can aim to the target and fire the 107 mm rockets by using the direct fire control unit and user interface display in the cabin. The T-107/122 enhances its effectiveness in close battle including battles in urban areas with its unique direct fire capability.

### Negative Elevation

The T-107/122 is able to fire the 107 mm rockets in negative elevation. Using that ability, the T-107/122 can aim and hit the targets below the launcher's altitude during the operations especially in mountainous areas.

### High Mobility

The T-107/122 launcher platform is a highly mobile 4 x 4 tactical vehicle which provides superior on-road and off-road travel capacity. Its compact and strong structure provides a very reliable platform. Having a very powerful engine, it has very high travel speed in both on-road and off-road conditions.

### Minimum Crew

The T-107/122 has a crew of two, consisting of a commander and a driver only due to the fully automatic weapon control, navigation and laying systems.

### Survivability

The T-107/122 has the minimized vulnerability on the battlefield because of the quick emplacement and displacement due to the shoot and scout capability, high mobility, the low profile because of its compact structure and the secure digital and voice communication capability. The less rocket smoke signature of the TR-107 rockets of ROKETSAN due to the reduced smoke composite propellant against the enemy's direct observation is another important aspect to enhance the survivability of the T-107/122 in terms of the avoidance of detection.

### Transportability

Because of its light, small and compact structure, the T-107/122 can be transported by all transportation means, land; air; sea and rail. It is transportable by almost all types of cargo planes. Therefore, the T-107/122 is able to support the overseas operations besides the operations in the territory.

### Flexibility

The flexibility of the T-107/122 MBRL makes it a very important fire support asset. The multi caliber launch, variety of munitions, the direct fire capability besides indirect fire, the organizational structure and transportability are main capabilities in addition to the other capabilities mentioned above to provide and enhance the flexibility of the T-107/122. The multi caliber launch, variety of munitions and direct/indirect fire capability give fire support planners flexibility for the fire planning to support the maneuver forces. The T-107/122 organizational structure and modern sub-systems allow assignment of tactical missions down to platoon or section level if required.

The T-107/122 launcher platform is a 4 x 4 tactical vehicle that brand and models are chosen according to customer's logistic structure and demand. It is equipped with necessary mechanical, electrical and electronic sub-systems to perform various steps required (mission planning, deployment, ballistic calculation, laying etc.) in order to conduct a firing mission. The T-107/122 system can be re-designed in different versions, which has different sub-systems including platform (vehicle), radios, power sources, navigation system, etc. in various brands and models according to the user's logistics structure and needs.

