



ARTILLERY ROCKET and MISSILE SYSTEMS



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**ARTILLERY
ROCKETS**



ROKETSAN A.S. is an affiliated company of Turkish Armed Forces Foundation.

ARTILLERY ROCKETS

ROKETSAN Artillery Rockets provide mass firepower to maneuvering forces with minimum dispersion and maximum warhead effectiveness on targets between 3 - 40 km ranges.

Sealed Pod

107 mm and 122 mm Rocket / Missile Pod is designed for long term storage. Sealed Pod contains 20 x rocket / missile ready to fire.

It provides advantages such as:

- Protection Against Adverse Weather and Environmental Conditions
- Extended Shelf Life
- Easy Transportation, Fast and Easy Loading and Unloading
- Quick Reaction Time
- Maintenance Free
- Built-In Test Capability



Technical Specifications

	TR-107	TR-122	TRB-122
Diameter	107 mm	122 mm	122 mm
Weight	20 kg	66 kg	66 kg
Minimum Range	3 km (at Sea Level)	16 km (at Sea Level) 21 km (at 600 m above Sea Level)	16 km (at Sea Level) 21 km (at 600 m above Sea Level)
Maximum Range	11+ km (at Sea Level)	10 km (with Drag Ring) 36 km (at Sea Level) 40 km (at 600 m above Sea Level)	10 km (with Drag Ring) 36 km (at Sea Level) 40 km (at 600 m above Sea Level)
Propellant Type	Reduced Smoke Composite Solid	Composite Solid	Composite Solid
Warhead Types	HE* + Fragmentation	HE* + Fragmentation	HE* + Steel Ball
Warhead Weight	8.4 kg	18.4 kg	18 kg
Warhead Effective Radius	≥ 14 m	≥ 20 m	≥ 40 m
Fuze Type	PD*	PD*	PD* and Proximity

*HE: High Explosive

*PD: Point Detonating



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**TRG-122
MISSILE**



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TRG-122 GUIDED ROCKET

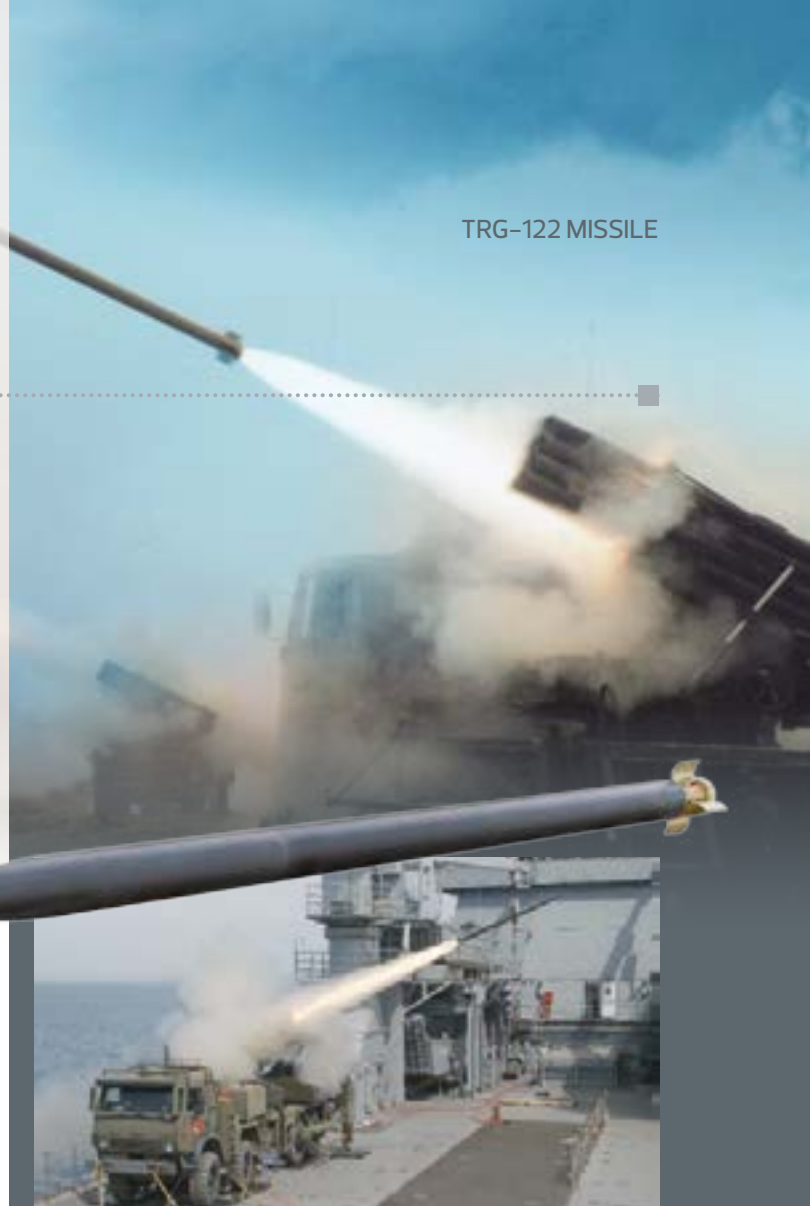
TRG-122 Guided Rocket provides accurate and effective fire power on high priority targets within the ranges 16 – 35 km.

Potential Targets

- Targets Located with High Accuracy
- Artillery and Air Defence Systems
- Radar Sites
- Assembly Areas
- Logistic Facilities
- C3 Facilities
- Other High Priority Targets

System Specifications

- 7/24 All Weather/Terrain Usage Capability
- Ready to Fire
- Highly Accurate
- Low Collateral Damage
- Precision Strike Capability
- Anti-Jamming/Anti-Spoofing Solutions



Technical Specifications

Diameter	122 mm
Weight	76 kg
Range	16 – 35 km
Guidance	GPS* + GLONASS*
Control	Aerodynamic Control with Electromechanical Actuation System
Propellant Type	Composite Solid
Warhead Types	HE* + Steel Ball
Warhead Weight	13 kg
Warhead Effective Radius	≥ 40 m (Steel Ball)
Fuze Type	PD* and Proximity
Accuracy (CEP)	≤ 15 m

*GPS: Global Positioning System

*GLONASS: Global Navigation Satellite System

*HE: High Explosive

*PD: Point Detonating

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**TRG-230
MISSILE**



ROKETSAN A.S. is an affiliated company of Turkish Armed Forces Foundation.

TRG-230 MISSILE

TRG-230 Missile provides accurate and effective fire power on high priority targets within the ranges 20 – 70 km.

TRG-230 Missile can be launched from ROKETSAN TIGER Multi Barrel Rocket Launcher (MBRL) Weapon System, MCL (Multi-Caliber Launcher) Artillery Weapon System and other platforms with compatible interfaces.

System Specifications

- 7/24 All Weather/Terrain Usage Capability
- Ready to Fire
- Highly Accurate
- Low Collateral Damage
- Precision Strike Capability
- Anti-Jamming/Anti-Spoofing Solutions



Potential Targets

- Targets Located with High Accuracy
- Artillery and Air Defence Systems
- Radar Sites
- Assembly Areas
- Logistic Facilities
- C3 Facilities
- Other High Priority Targets

Technical Specifications

Diameter	230 mm
Weight	210 kg
Range	20 – 70 km
Guidance	GPS* + GLONASS* Aided INS*
Control	Aerodynamic Control with Electromechanical Actuation System
Propellant Type	Composite Solid
Warhead Types	HE* + Steel Ball
Warhead Weight	50 kg
Warhead Effective Radius	≥ 55 m
Fuze Type	PD* and Proximity
Accuracy (CEP)	≤ 10 m

*GPS: Global Positioning System

*GLONASS: Global Navigation Satellite System

*INS: Inertial Navigation System

*HE: High PD and Proximity

*PD: Point Detonating

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**TRGK-300
GUIDANCE KIT**

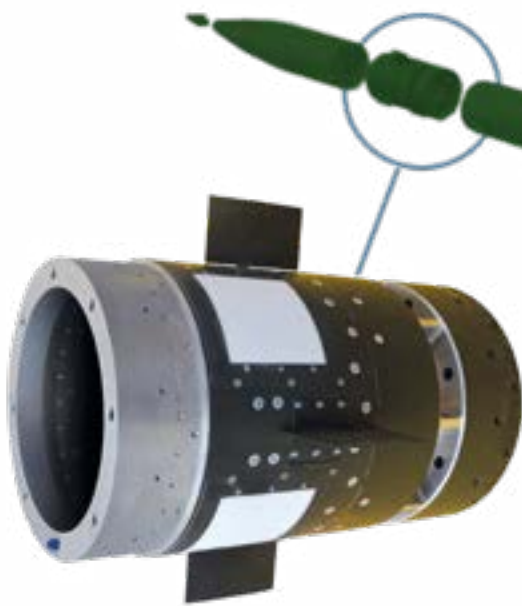


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TRGK-300 GUIDANCE KIT

With the installation of the TRGK-300 Guidance Kit on unguided 300 mm rockets, targets within a range of 40 - 90 km can be surpassed with high accuracy.

The guidance kit integration provides a cost-effective solution by using the existing rocket components.



System Specifications

- 7/24 All Weather/Terrain Usage Capability
- Ready to Fire
- Highly Accurate
- Increased Effectiveness Against Critical Targets

Technical Specifications of Rocket

Diameter	300 mm
Weight	600 kg
Range	40 - 90 km
Guidance	GPS* + GLONASS*
Control	Aerodynamic Control with Electromechanical Actuation System
Propellant Type	Composite Solid
Warhead Types	HE* + Steel Ball
Warhead Weight	150 kg
Warhead Effective Radius	≥ 70 m
Fuze Type	PD* and Proximity
Accuracy (CEP)	≤ 50 m

*GPS: Global Positioning System

*GLONASS: Global Navigation Satellite System

*HE: High Explosive

*PD: Point Detonating

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**TRG-300
TIGER MISSILE**



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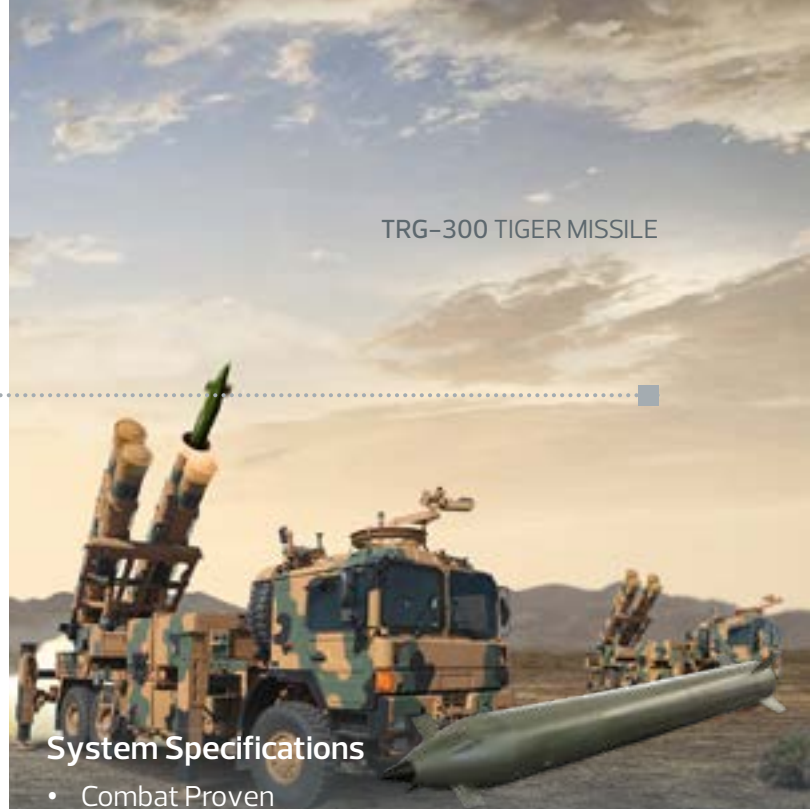
TRG-300 TIGER MISSILE

TRG-300 TIGER Missile provides accurate and effective fire power on high priority targets within the ranges 20 – 120 km.

TIGER Missile can be launched from ROKETSAN TIGER Multi Barrel Rocket Launcher (MBRL) Weapon System, MCL (Multi-Caliber Launcher) Weapon System and other platforms with compatible interfaces.

Potential Targets

- Targets Located with High Accuracy
- Artillery and Air Defence Systems
- Radar Sites
- Assembly Areas
- Logistic Facilities
- C3 Facilities
- Other High Priority Targets



System Specifications

- Combat Proven
- 7/24 All Weather/Terrain Usage Capability
- Ready to Fire
- Low Collateral Damage
- Long Range Highly Accurate Precision Strike Capability
- Anti Jamming / Anti Spoofing Solutions

Technical Specifications	BLOCK-I	BLOCK-II*
Diameter	300 mm	
Weight	585 kg	
Range	30 – 120 km	20 – 90 km
Guidance	GPS* + GLONASS* Aided INS*	
Control	Aerodynamic Control with Electromechanical Actuation System	
Propellant Type	Composite Solid	
Warhead Types	HE* + Steel Ball	
Warhead Weight	105 kg	150 kg
Warhead Effective Radius	≥ 70 m	
Fuze Type	Point Detonating and Proximity	
Accuracy (CEP)	≤ 10 m	

*BLOCK-II: Enhanced Warhead Dynamic Effectiveness

*GPS: Global Positioning System

*GLONASS: Global Navigation Satellite System

*INS: Inertial Navigation System

*HE: High Explosive



T-107/122 MULTI-PURPOSE and MULTI BARREL ROCKET LAUNCHER (MBRL) SYSTEM



ROKETSAN A.S. is an affiliated company of Turkish Armed Forces Foundation.

T-107/122 MULTI-PURPOSE and MULTI BARREL ROCKET LAUNCHER (MBRL) SYSTEM

The T-107/122, 107 and 122 mm Multi-Purpose and Multi Barrel Rocket Launcher (MBRL) is a weapon system that provides concentrated and effective fire support against high priority targets in all weather and terrain conditions during day and night.

Highly maneuverable T-107/122 MBRL can fire TR-107, TR-122, TRB-122 Rockets and TRG-122 Missiles.

The T-107/122 MBRL Battery consists of Command & Control Vehicle, Ammo Supply Vehicle, Meteorology Vehicle, Maintenance & Repair Vehicle and other auxiliary vehicles.

System Specifications

- Onboard Crane for Ammunition Supply
- Automatic Aiming
- Communication System (Wired/Wireless – Voice/Data)
- Hydraulic Stabilization System
- Integrated Ground Meteorology System
- Cabin Pressurization System (Optional)
- Power Supply and Distribution System
- Inside Cabin or Remote Firing Capability
- Ready to Fire in Maximum 5 Minutes
- Ballistic Protection (Optional)
- Capability of Firing at Negative Elevation



Technical Specifications

Diameter	107 mm and 122 mm
Range	3 – 40 km
Number of Tubes	3x20 TR-107 1x20 TR-122, TRB-122, TRG-122
Salvo Interval	0.5 ~ 2 sec
Vehicle	4x4 or 6x6 Tactical Wheeled Vehicle
Aiming	Automatic Manual (Back-Up)
Stabilization	4 Hydraulic Legs
Vehicle Navigation System	INS*/GPS*

*INS: Inertial Navigation System

*GPS: Global Positioning System



■ T-107/122 MBRL Battery Structure

The T-107/122 MBRL Battery is capable of performing independent missions with its mission support vehicles.

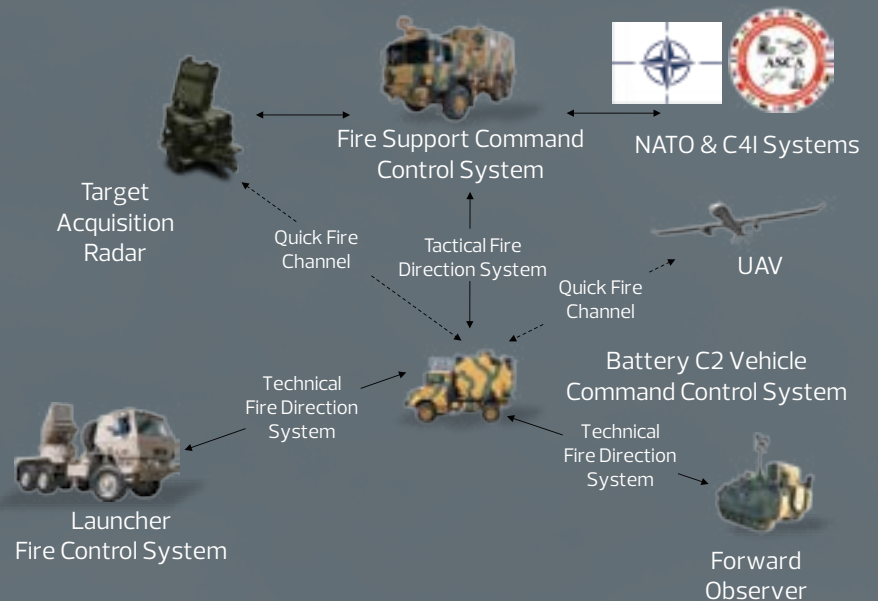
T-107/122 Battery is composed of 1 x C-107/122 Command & Control Vehicle, 6 x T-107/122 Launchers, 6 x L-107/122 Ammo Supply Vehicles, 1 x M-107/122 Meteorology Vehicle and 1 x R-107/122 Repair Vehicle. The number and type of vehicles can be customized according to the customer's requirements.



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

■ T-107/122 MBRL 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. Target acquisition radars or Unmanned Aerial Vehicles supply target information to the Battery.



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.

- 4x4 or 6x6 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.

- 4x4 or 6x6 Tactical Wheeled Vehicle
- Multi – Caliber Cradle for 107 mm Caliber 3x20 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
- Flexible Cradle and Weapon Management System for Other Types of Ammunition of the Future
- INS/GPS Navigation System
- Day and Night Direct Fire Capability for 107 mm Rockets (Optional)
- Automatic Laying System with the use of the Inertial Navigation Unit (INU)
- Weapon Management System
- Communication System (Wired/Wireless – Voice/ Data)
- 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 Five Minutes
- Negative Elevation for Direct Fire
- Two-Man Crew



EMI: Electromagnetic Interference

EMC: Electromagnetic Compatibility

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.

- 6x6 or 8x8 Tactical Wheeled Vehicle
- Integrated Ammunition Loading 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.

- 4x4 or 6x6 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.

- 6x6 Tactical Wheeled Vehicle
- Air-Conditioned, EMI/EMC Protected Shelters in NATO Standards
- Crane
- Recovery Winch
- Power Supply and Distribution System
- Communication System (Wired/Wireless Voice)
- Repair & Maintenance Kits
- Three-Man Crew



T-107/122 MULTI-PURPOSE and MULTI BARREL ROCKET LAUNCHER (MBRL) SYSTEM



■ Shoot and Scoot Capability

The T-107/122 Launcher perfectly performs “shoot and scoot tactics” with its inertial and global navigation and automatic aiming systems.

- Capability to fire within 5 minutes after deploying
- Capability to displace in 5 minutes after firing
- Capability to carry out multiple firing missions in a short period of time.

■ Direct Fire Capability (Optional)

- TR-107 Rockets can be fired directly by using direct fire control unit inside the cabin.
- Launcher's hydraulic support legs, help the dispersion to be kept at a minimum level.
- With its massive fire capability, the T-107/122 Launcher can be used not only to suppress target areas, but it can also be used against point targets effectively.

■ Negative Elevation

The T-107/122 is able to fire the 107 mm rockets at negative elevations in mountainous areas to targets below the launcher's altitude.

■ High Mobility Capability

The T-107/122 Launcher Platform is a 4x4 or 6x6 tactical wheeled vehicle, which provides superior on-road and off-road capability. Its compact and robust structure provides a reliable launching platform.

■ Minimum Crew

Due to the fully automatic navigation and aiming systems, the T-107/122 can be operated with two crew, launcher commander and driver.

■ Flexibility

The flexibility and modular structure of the T-107/122 MBRL System makes it a very important fire support vehicle:

- Capability of using a variety of ammunitions with warhead of various class and type
- Ease of transport by various means
- Capable of performing multiple missions thanks to tool and parts (launcher) The T-107/122 launch vehicle platform is a 4WD or 6WD tactical wheeled vehicle whose brand and model can be specified according to the user needs. According to the user's logistical infrastructure and requirements, sub-systems including radio, power system, navigation systems etc. can be designed in different configurations.

■ Survivability

The T-107/122 has a minimized vulnerability on the battlefield because of its shoot and scout capability of quick emplacement and displacement, its high mobility, its low profile thanks to its compact structure and because of its secure digital and voice communication capability. The small rocket smoke signature of ROKETSAN's TR-107 rockets, due to reduced smoke composite propellant, makes it difficult for an enemy to make a direct observation; 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 overseas operations in addition to operations in its own territories.



■ Sealed Pod

Thanks to the sealed pods of the T-107/122 MBRL System, which can launch 60x 107 mm or 20x 122 mm rockets/missiles at a time, following can be provided:

- Protection of ammunition against adverse hot, cold weather and environmental conditions, including tropical environmental conditions in the battlefield and during storage,
- Fast and easy loading and unloading

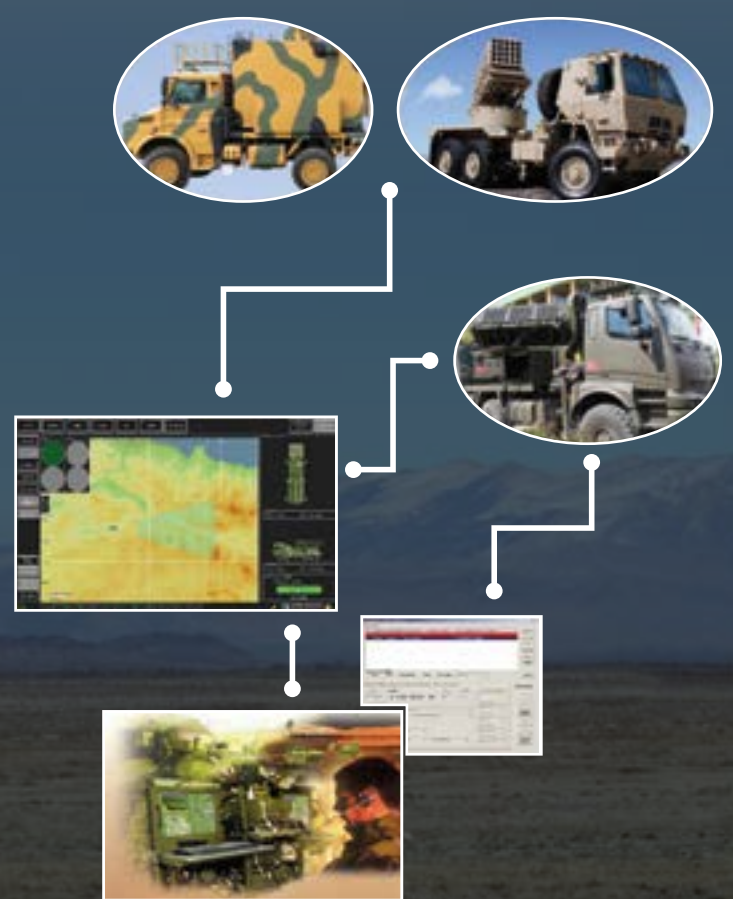
■ Multi Caliber Launch

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.

■ Fire Control System

The Fire Control System of T-107/122 MBRL System provides mission critical advantages.

- Computer Aided-Deployment
- Fire Planning
- Technical Fire Direction
- Situational Awareness
- Digital Integration to other Fire Support Systems
- Digital Mapping
- Digital Communication
- User friendly interface
-





**T-122 MBRL
MULTI BARREL
ROCKET LAUNCHER
(MBRL) SYSTEM**



ROKETSAN A.S. is an affiliated company of Turkish Armed Forces Foundation.

T-122 MBRL MULTI BARREL ROCKET LAUNCHER (MBRL) SYSTEM

The T-122, 122 mm Multi Barrel Rocket Launcher (MBRL) is a weapon system that provides concentrated and effective fire support against high priority targets in all weather and terrain conditions during day and night.

The T-122 MBRL System can provide indirect firepower within a range of 16 – 40 km.



System Specifications

- Combat proven
- 7/24 all weather/terrain usage capability
- Increased responsiveness
- Increased effectiveness against critical targets
- Air, rail and sea transportable
- Three man-crew



T-122 MBRL 122 MM MULTI BARREL ROCKET LAUNCHER (MBRL) SYSTEM

Fire Control System

The Fire Control System of T-122 MBRL System provides mission critical advantages.

- Computer Aided-Deployment
- Fire Planning
- Technical Fire Direction
- Situational Awareness
- Digital Integration to other Fire Support Systems
- Digital Mapping
- Digital Communication
- User friendly interface

Technical Specifications

Diameter	122 mm
Range	16 – 40 km
Number of Tubes	2x20 TR-122, TRB-122, TRG-122
Salvo Interval	0.5 sec
Vehicle	6x6 Tactical Wheeled Vehicle
Elevation	0 – 55°
Deflection	±110°
Aiming	Automatic Manual (Back-Up)
Stabilization	4 Hydraulic Legs
Vehicle Navigation System	INS*/GPS*

*INS: Inertial Navigation System

*GPS: Global Positioning System





MCL (MULTI-CALIBER LAUNCHER) WEAPON SYSTEM

TR-122 / TRB-122 / TRG-122



TRG-230



TRG-300
TRGK-300



KHAN



MCL (MULTI-CALIBER LAUNCHER)
WEAPON SYSTEM

MCL (MULTI-CALIBER LAUNCHER) WEAPON SYSTEM

MCL (Multi-Caliber Launcher) Weapon System is capable of providing precise fire on critical targets between 16 – 280 km range.

MCL Weapon System is a highly maneuverable fire support system that can fire TR-122, TRB-122, TRG-122, TRG-230, TRG-300, TRGK-300 and KHAN Rockets and Missiles. The battery is composed of Command & Control Vehicle, Launchers, Ammo Supply Vehicles, Meteorology Vehicle and Maintenance & Repair Vehicle, as well as other mission vehicles needed.

System Specifications

- Steel or Composite Pods
- Onboard Crane for Ammunition Supply (Optional)
- Automatic Aiming
- Communication System (Wired/Wireless – Voice/Data)
- Hydraulic Stabilization System
- Integrated Ground Meteorology System
- Cabin Pressurization System (Optional)
- Power Supply and Distribution System
- Firing from the Cabin or Remote Firing Capability
- Ready to Fire within 5 Minutes
- Ballistic Protection (Optional)

Technical Specifications

Diameter	122 mm, 230 mm, 300 mm and 610 mm
Range	10 – 280 km
Number of Tubes	2x20 TR-122, TRB-122, TRG-122 2x6 TRG-230 2x4 TRG-300, TRGK-300 1x KHAN
Salvo Interval	0.5 – 15 sec
Vehicle	6x6 or 8x8 Tactical Wheeled Vehicle
Aiming	Automatic Manual (Back-Up)
Stabilization	4 Hydraulic Legs
Vehicle Navigation System	INS* /GPS*

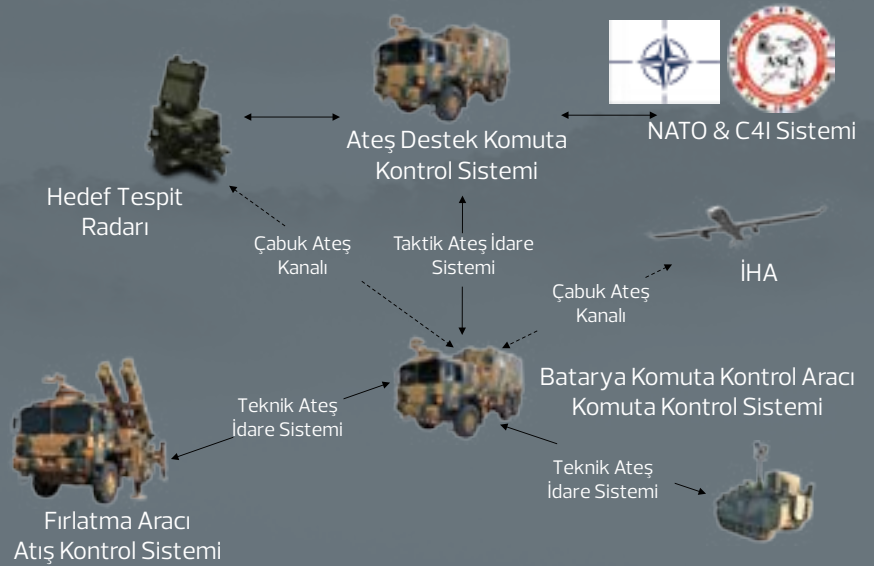
*INS: Inertial Navigation System

*GPS: Global Positioning System



■ **Battery Structure**

The MCL Weapon System Battery is capable of performing independent missions with its mission support vehicles. A typical MCL Weapon System battery is composed of 1 x Command & Control Vehicle, 6 x Launcher Vehicles, 6 x Ammo Supply Vehicles, 1 x Meteorology Vehicle and 1 x Maintenance & Repair Vehicle. The number and type of vehicles can be customized.



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

■ **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. Target acquisition radars or Unmanned Aerial Vehicles supply target information to the Battery.



Command & Control Vehicle (CCV)

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

- 4x4 or 6x6 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

Launching Vehicle (LV)

The LV is a highly mobile system with superior fire power which is capable of firing 40 x 122 mm rockets/missiles or 12 x 230 mm missiles or 4 x 300 mm missiles or 1 x 610 mm missile within a short period.

- 6x6 or 8x8 Tactical Wheeled Vehicle
- Multi-Caliber Cradle for 122 mm Caliber 2 x 20 and 300 mm Caliber or 230 mm Caliber 2x 6 or 300 mm caliber 2x2 or 1 x 610 mm caliber Sealed and Thermally Insulated Pods
- Sealed Pods Against Adverse Weather and Environmental Conditions and Minimized Loading Time
- Flexible Cradle and Weapon Management System for Other Types of Ammunition of the Future
- INS/GPS Navigation System
- Automatic Laying System with the use of Inertial Navigation Unit (INU)
- Weapon Management System
- Communication System (Wired/Wireless-Voice-Data)
- 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 Five Minutes
- Three-Man Crew



EMI: Electromagnetic Interference
EMC: Electromagnetic Compatibility

Ammunition Supply Vehicle (ASV)

The ASV is the mission vehicle which performs ammunition transportation, loading the LV in all weather and terrain conditions in the field.

- 6x6 or 8x8 Tactical Wheeled Vehicle
- Integrated Ammunition Loading Crane
- Hydraulic Stabilization System
- Communication System (Wired/Wireless Voice)
- Three-Man Crew

Meteorology Vehicle (MetV)

The MetV has a High Altitude MET System and a Ground MET System. The MetV provides the high altitude meteorological reports required for 122 mm rocket firing and sends them to CCV and to the LV's for ballistic calculation before firing.

- 4x4 or 6x6 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

Maintenance & Repair Vehicle (MRV)

The MRV is a mission support vehicle which performs maintenance and repair functions in the field at a unit level within a MCL battery. The MRV can be used as a second level maintenance vehicle at battalion level as well.

- 6x6 or 8x8 Tactical Wheeled Vehicle
- Air-Conditioned, EMI/EMC Protected Shelters in NATO Standards
- Crane
- Recovery Winch
- Power Supply and Distribution System
- Communication System (Wired/Wireless Voice)
- Repair & Maintenance Kits
- Three Man Crew



EMI: Electromagnetic Interference
EMC: Electromagnetic Compatibility

■ Deterrent Force

The system is a deterrent force due to its long range and mass fire capabilities. It can therefore perform vital tasks in a wide range of missions from peace keeping, defence and to attack operations for the support of a maneuvering force.

■ Shoot and Scoot Capability

The Launcher perfectly performs "shoot and scoot" with its inertial and global navigation and automatic aiming systems.

- Capability to fire within 5 minutes after deploying
- Capability to displace in 5 minutes after firing
- Capability to carry out multiple firing missions in a short period of time

■ High Mobility

The Launcher Vehicle is a 6x6 or 8x8 tactical wheeled vehicle, which provides superior on-road and off-road travel capability. Its compact and robust structure provides a reliable launching platform.

■ High Survivability

The system provides high survivability on the battlefield with its quick aiming and displacement capability, shoot and scoot ability, high mobility and secure digital & voice communication system.

■ Transportability

The system can be transported by land, air, sea and railways.

It is transportable by almost all types of cargo planes.



■ Minimum Crew

Due to the fully automatic weapon control, navigation and laying systems, the MCL has a crew of just two, consisting of a commander and a driver. However, the crew number can be increased according to the user's needs.

■ Flexibility

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

In addition to the 122 mm, 230 mm, 300 mm and 610 mm missiles, the MCL is able to fire rockets and guided munitions of the future due to its flexible and modular structure.

The MCL platform is a 6x6 or 8x8 tactical wheeled vehicle whose brand and models are chosen according to the customer's logistical infra-structure and demand. It is equipped with the 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 MCL system can be customized in different versions, which have different sub-systems including platform (vehicles), radios, power sources, navigation system etc., in various brands and models according to the user's logistical infra-structure and needs.

■ Sealed Pod

The MCL is a launching platform with superior fire power that can fire 40 rounds 122 mm rockets / missiles or 12 rounds 230 mm missiles or 4 rounds 300 mm missiles or 1 round 610 mm missile. It uses sealed and thermal insulated rocket pods with minimum reloading time and maximum protection against adverse environmental conditions for munitions.



■ Multi Caliber Launch

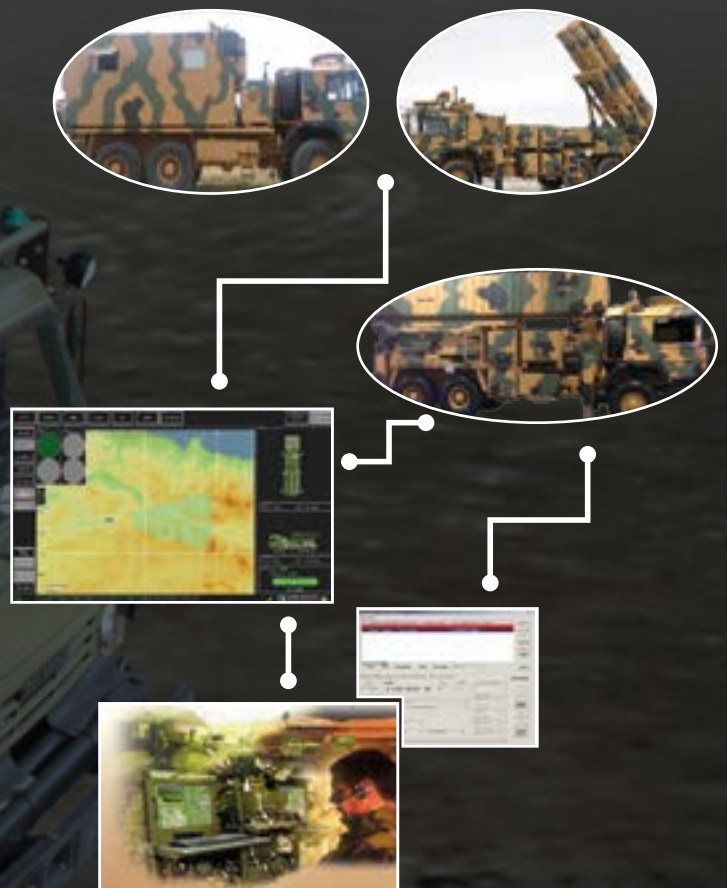
The MCL Launcher has the capability to launch 122 mm, 230 mm, 300 mm and 610 mm missiles, giving the MCL units the capability to cover the target area from three kilometers up to more than 280 kilometers in range. Depending on the threat and the mission, it can be loaded in advance with the required type of rockets or missiles.



■ Fire Control System

The Fire Control System of MCL Weapon System provides mission critical advantages.

- Computer Aided-Deployment
- Fire Planning
- Technical Fire Direction
- Situational Awareness
- Digital Integration to other Fire Support Systems
- Digital Mapping
- Digital Communication
- User friendly interface



 roketsan

KHAN MISSILE



ROKETSAN Türk Silahlı Kuvvetlerini Güçlendirme Vakfının bir kuruluşudur.



KHAN MISSILE

KHAN Missile provides accurate and effective fire power on strategic targets within the battlefield.

The missile can be launched from 8x8 Tactical Wheeled Vehicle, ROKETSAN MCL (Multi-Caliber Launcher) Artillery Weapon System and other platforms with compatible interfaces.

Potential Targets

- Targets Located with High Accuracy
- Artillery and Air Defence Systems
- Radar Sites
- Assembly Areas
- Logistic Facilities
- C3 Facilities
- High Priority Targets



Sealed Pod



System Specifications

- Combat Proven
- 7/24 All Weather/Terrain Usage Capability
- Ready to Fire
- Low Collateral Damage
- Long Range Highly Accurate Precision Strike Capability
- Anti Jamming/Anti Spoofing Solutions

Technical Specifications

Diameter	610 mm
Weight	2,500 kg
Range	80 – 280 km
Guidance	GPS* + GLONASS* Aided INS* INS* Only
Control	Aerodynamic Control with Hydraulic Actuation System
Propellant Type	Composite Solid
Warhead Type	HE* Blast Fragmentation
Warhead Weight	470 kg
Fuze Type	PD* and Proximity
Accuracy (CEP)	≤ 10 m GPS + GLONASS Aided INS* ≤ 100 m INS* Only

*GPS: Global Positioning System

*GLONASS: Global Navigation Satellite System

*INS: Inertial Navigation System

*HE: High Explosive

*PD: Point Detonating



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