



MEGA ENGINEERING VEHICLES



THE NEXT GENERATION OF ADVANCED APC



RAPTOR

**MEGA ARMORED MILITARY VEHICLES IS DIVISION OF
MEGA ENGINEERING VEHICLES INC.**



RAPTOR the latest design by MEGA, the most advanced American military vehicle ever built.



MEGA Defense is leading the next generation of advanced military vehicles in terms of weight class, protection category and mission-specific equipment, for every conceivable operational scenario with greater versatility and efficiency. The new Raptor of infantry fighting vehicle highlights once again MEGA's role as a high-tech enterprise for security and mobility.

The optional Advance Electric Armored Vehicle system uses a modular arrangement to simplify the transmission of power to the wheels, which eliminates dependency on oil and dramatically reduces life-cycle costs.

Mega employs superior technologies to advance the light-duty vehicle profile, for missions that take military personnel over the harshest terrain and call for the quickest, most versatile response. It is designed for extreme maneuverability, reliability and greater crew protection and survivability.

Type	Armored fighting vehicle
Place of origin	USA
Specifications	
Weight	20,000 kg (standard); 30,000 – 36,000 kg (Combat)
Length	26 Ft. 3 in (8 m)
Width	10 Ft (3.05 m)
Height	8 Ft (2.44m)
Crew	Varies by roll. 3+8
Armor	Classified composite armor
Main armament	Various, depends on configuration
Engine	770 HP / 570 kW Diesel engine / optional Electric Motor
Power/ Weight	17.1 kW/t
Suspension	Independent double wishbone coil (8X8)
Operational range	700 mi (1126 km)
Speed	67 mph (108 km/h)



THE NEXT GENERATION OF ADVANCED APC - RAPTOR

The Raptor armored transport vehicle is designed and engineered in the USA with advanced cutting edge technology. Highly mobile, it is a state-of-the-art wheeled vehicle whose modular design permits a wide variety of mission-specific configurations.



RAPTOR





THE NEXT GENERATION OF ADVANCED APC - RAPTOR

Consisting of a uniform drive module, the Raptor vehicle's user-specific mission modules can be quickly exchanged. A number of mission variants are an Armored personnel carrier, a field ambulance, a combat engineering section vehicle, C2 command vehicle, a logistics vehicle and a battlefield maintenance vehicle.





ADVANCED MILITARY VEHICLES

LASER GUIDED-LGV & AUTOMATED GUIDED-AGV – TROOPER III

TROOPER III



TROOPER III

Modern TROOPER III, offer enhanced protection, enabling safer infantry deployment in high-threat areas. TROOPER III is one of the best armored personnel carriers designed, based on protection and mobility. The vehicle is integrated with spaced and sloped Armor solutions for protection against mines, IED s and ballistic threats.

The TROOPER III internal layout is designed to accommodate a driver, commander, and nine troops. The armored hull offers high level of protection against Kinetic Energy (KE) penetrates, mines, RPG s, EFP s, and IED s.

Combat Systems

Laser Guided Vehicles-LGVs

LGV has advanced navigation capabilities and is able to navigate around objects along a programmed path and avoid collisions independently using laser beam sensors.

There are two types of lasers used in laser guided vehicles: modulated lasers, which give pulsed laser systems higher accuracy and a greater range due to a continuous fan of light; and pulsed lasers, which emit light in the form of optical pulses.

Automated Guided Vehicles-AGVs

AGV uses 360-degree images and build a 3D map, which allows the vision-guided AGVs to follow a trained route without human assistance or the addition of special features, landmarks or positioning systems.

Mega Automation's virtual path navigation uses a solid state inertial sensor to determine AGV heading and positional information. This is ideal for all environments—especially where magnetic or laser targets are not feasible or desirable.



ADVANCED MILITARY VEHICLE APC - DEFENDER III

Mega Engineering Vehicle – MEGA will Design and Engineer Armored Personnel Carrier – Defender III with the most advance technology in the world!

Design features to reduce the thermal signature of the vehicle include a thermally insulated exhaust system and the use of infra-red absorbing paint. The design of vehicle surfaces has been computer optimized to minimize the radar cross section of the vehicle. The noise signature has been reduced with engine and exhaust silencing systems. The Defender III – APC 8X8 is used to carry troops and cargo under armor.



DEFENDER III





ADVANCED MILITARY VEHICLES APC - DEFENDER III



DEFENDER III





ARMORED MULTI PURPOSE VEHICLE (AMPV)



TROOPER I



RANGER II



DEFENDER II

MEGA Defense is leading the development of the next generation of advanced Armored Multi Purpose Vehicle (AMPV). The AMPV is a state of the art in terms of weight class, protection category and mission-specific equipment ready for every conceivable operational scenario with greater versatility and efficiency. The new tactical wheeled armored vehicle highlights once again MEGA's role as a high-tech enterprise for security and mobility. The AMPV is designed and engineered in the USA with advanced cutting edge technology. It is a state-of-the-art highly mobile wheeled vehicle.

Mega employs superior technologies to advance the light-duty vehicle profile, for missions that take military personnel over the harshest terrain and call for the quickest, most versatile response. It is designed for extreme maneuverability, reliability and greater crew protection and survivability.

The AMPV is based on 4x4 or 6x6 chassis. The modular design of the vehicle incorporates advanced technical and tactical characteristics. Its conventional layout houses engine in front, crew section in the middle and troop compartment at rear. Entry and exit for the occupants are provided through two doors at both sides and a rear door. The optional Advance Electric Armored Vehicle system uses a modular arrangement to simplify the transmission of power to the wheels, which eliminates dependency on oil and dramatically reduces life-cycle costs.

Type	Armored fighting vehicle
Place of origin	USA
Specifications	
Weight	10,000 kg -130000 kg
Length	19-19.68 Ft (5.8-6 m)
Width	7.87-8.2 Ft (2.4-2.5 m)
Height	7.2-7.38 Ft (2.2-2.25m)
Crew	Varies by roll. 2 + 6
Armor	Classified composite armor
Main armament	Various, depends on configuration
Engine	450 HP / Diesel / Turbocharged / optional Electric Motor
Power/ Weight	17.1 kW/t
Suspension	Fully independent suspension with spring & shock absorber (4X4)
Operational range	450 mi (724 km)
Speed	75 mph (120 km/h)



ARMORED MULTI PURPOSE VEHICLE (AMPV)

ADVANCED MILITARY VEHICLES APC 6X6 – DEFENDER II



DEFENDER II

ADVANCED MILITARY VEHICLES APC 4X4 – DEFENDER I



DEFENDER I



ARMORED MULTI PURPOSE VEHICLE (AMPV)

ADVANCED MILITARY VEHICLES APC 4X4 - TROOPER I



TROOPER I

ADVANCED MILITARY VEHICLES APC 6X6 - TROOPER II



TROOPER II



ARMORED MULTI PURPOSE VEHICLE (AMPV)

APC 4X4 – RANGER II



RANGER II



RANGER II



• **OUR PRODUCTS:**

- AEROSPACE & DEFENSE
- AUTOMOTIVE DESIGN & ENGINEERING
- COMPOSITE MATERIALS
- UNMANNED VEHICLES (UGV & UAV)
- LUXURY ARMORED VEHICLES
- SPECIALTY VEHICLES

• **LOCATIONS:**

- HUNTINGTON BEACH, CALIFORNIA, USA (H.Q)
- DETROIT, MICHIGAN, USA
- TORONTO, CANADA
- BARCELONA, SPAIN
- DUBAI, UAE
- RAS AL KHAIMAH, UAE

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