

MTVL

Mobile Tactical Vehicle Light



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MTVL—the latest in the United Defense line of armored carriers—is available now, providing exceptional operational mobility, tactical agility, survivability, lethality, and mission flexibility. The MTVL, available as a new vehicle or as a conversion, features an electronically controlled and tunable 400 hp engine, a state-of-the-art electrical system, and a high mobility suspension package. Its cross-country mobility

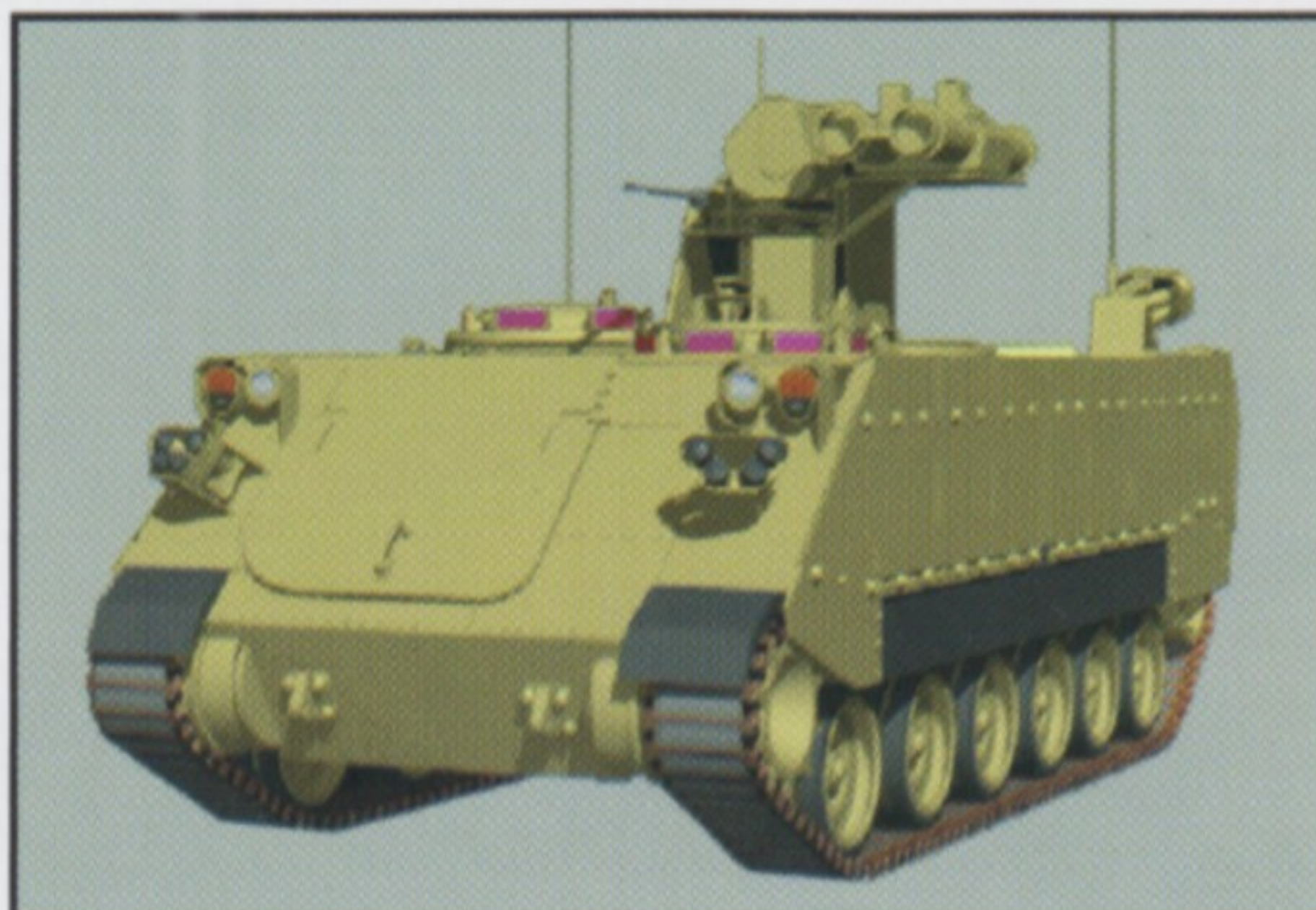
exceeds that of anything in its class. The large capacity of the MTVL offers outstanding performance in meeting changing payload requirements and allows for the incorporation of a wide variety of armor and weapons station options. A geometrically efficient design allows roll-on/roll-off C-130 transport including airdrop capability—providing strategic mobility second to none. Backed by more than 40

years of field experience and a world-class support team, the proven fleet design of the MTVL and its variants reduces the logistics footprint anywhere in the world through superior deployability, reliability, commonality, maintainability, and mission flexibility. The United Defense MTVL family of light vehicles is an affordable, supportable solution for combat, tactical, and support vehicle roles.

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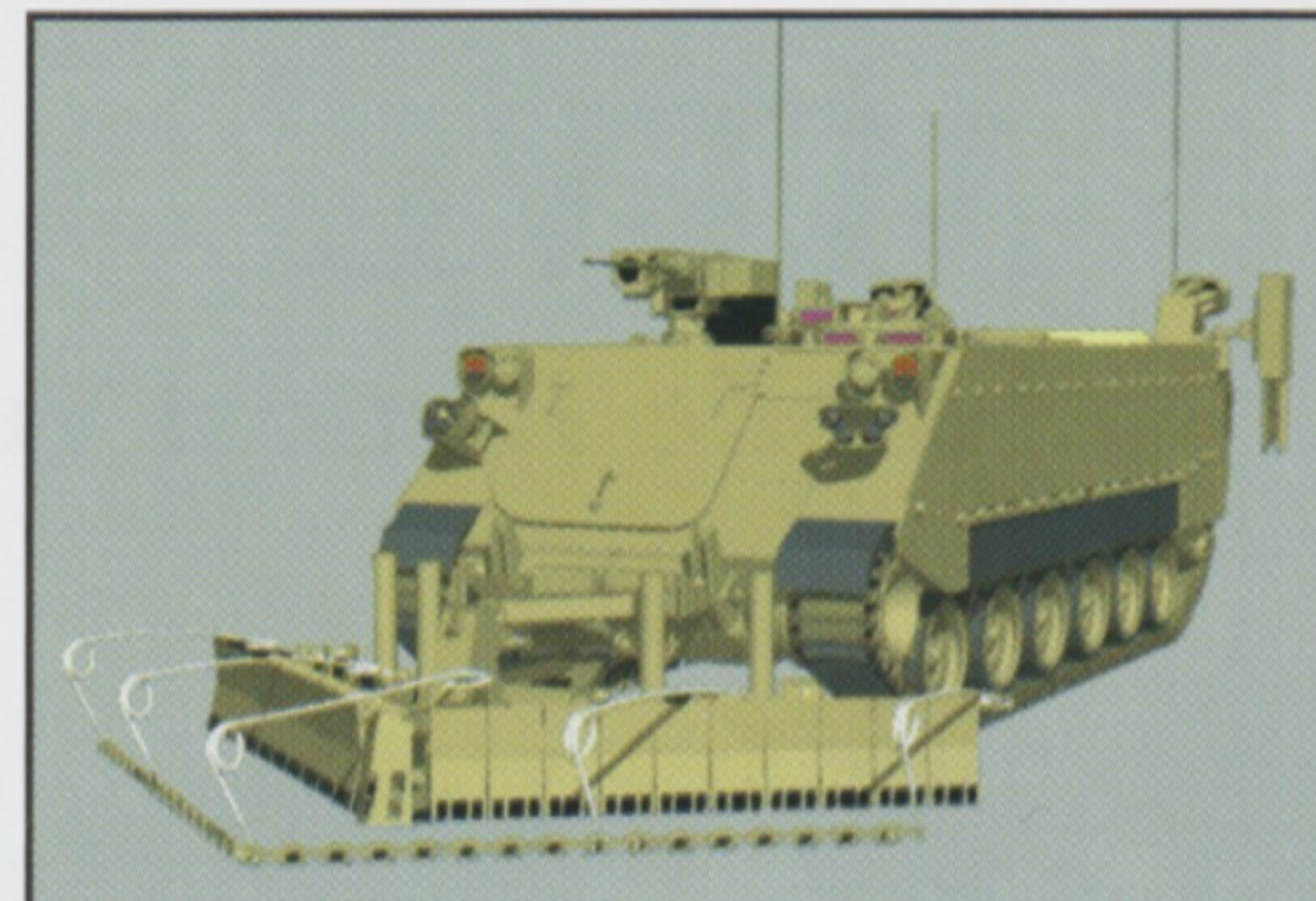
20th Century Platoons Variants

With a payload capacity of over 17,200 lbs, the MTVL platform is adaptable to a diverse array of mission requirements. The variants' large-scale commonality provides significant training and logistics efficiencies, and every variant is C-130 transportable.



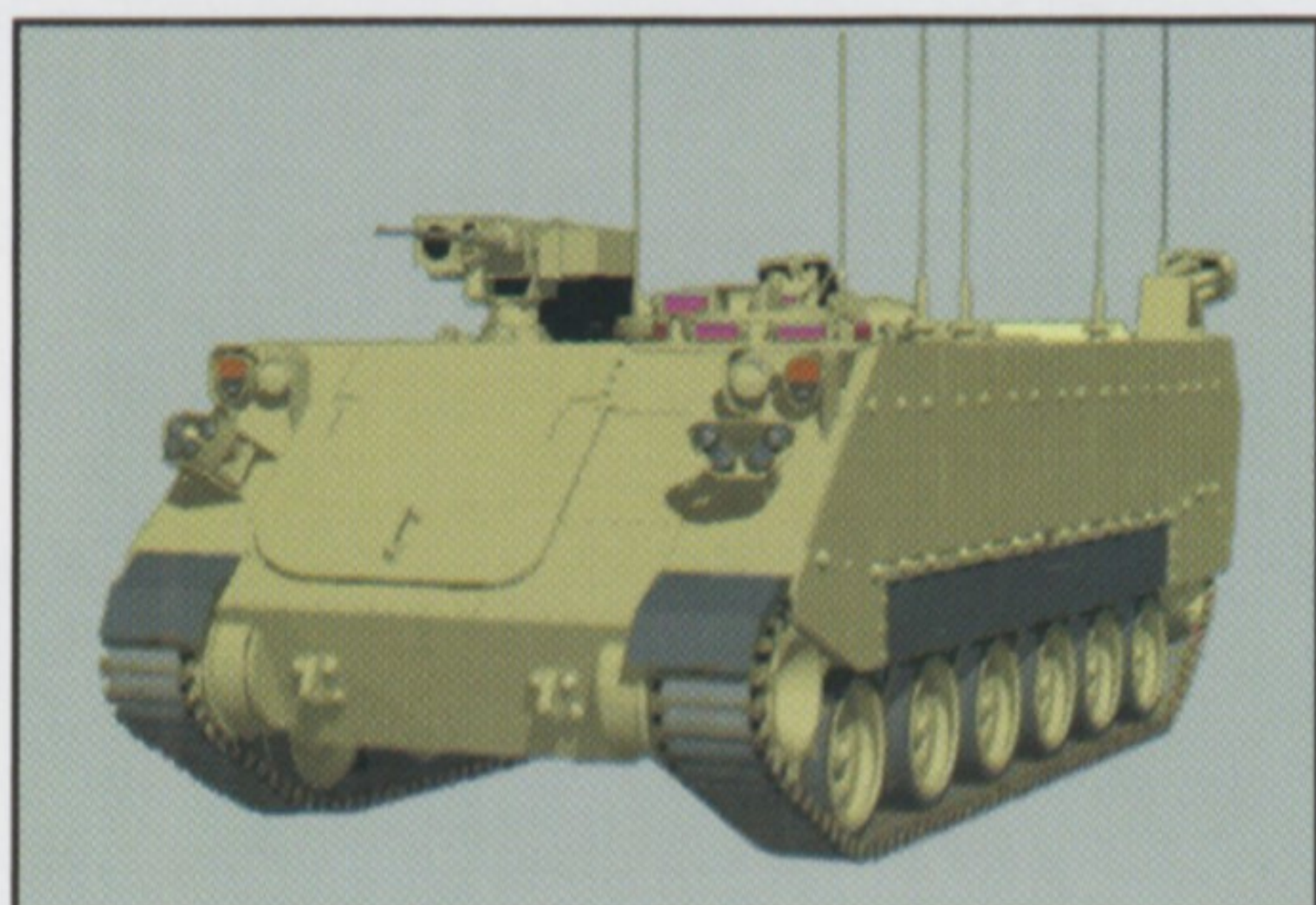
Anti Tank Guided Missile Vehicle

The major feature of the ATGM is the twin TOW missile launcher integrated with the Enhanced Improved Target Acquisition System (EITAS).



Engineer Squad Vehicle

ESV mission equipment includes an integrated lightweight surface mine plow, lightweight mine roller system, magnetic signature duplicator (MSD), and a lightweight lane-marking system.



Battle Command Vehicle

The CV enables the commander and his staff to operate from a protected platform that is tailorable to various command and control configurations.



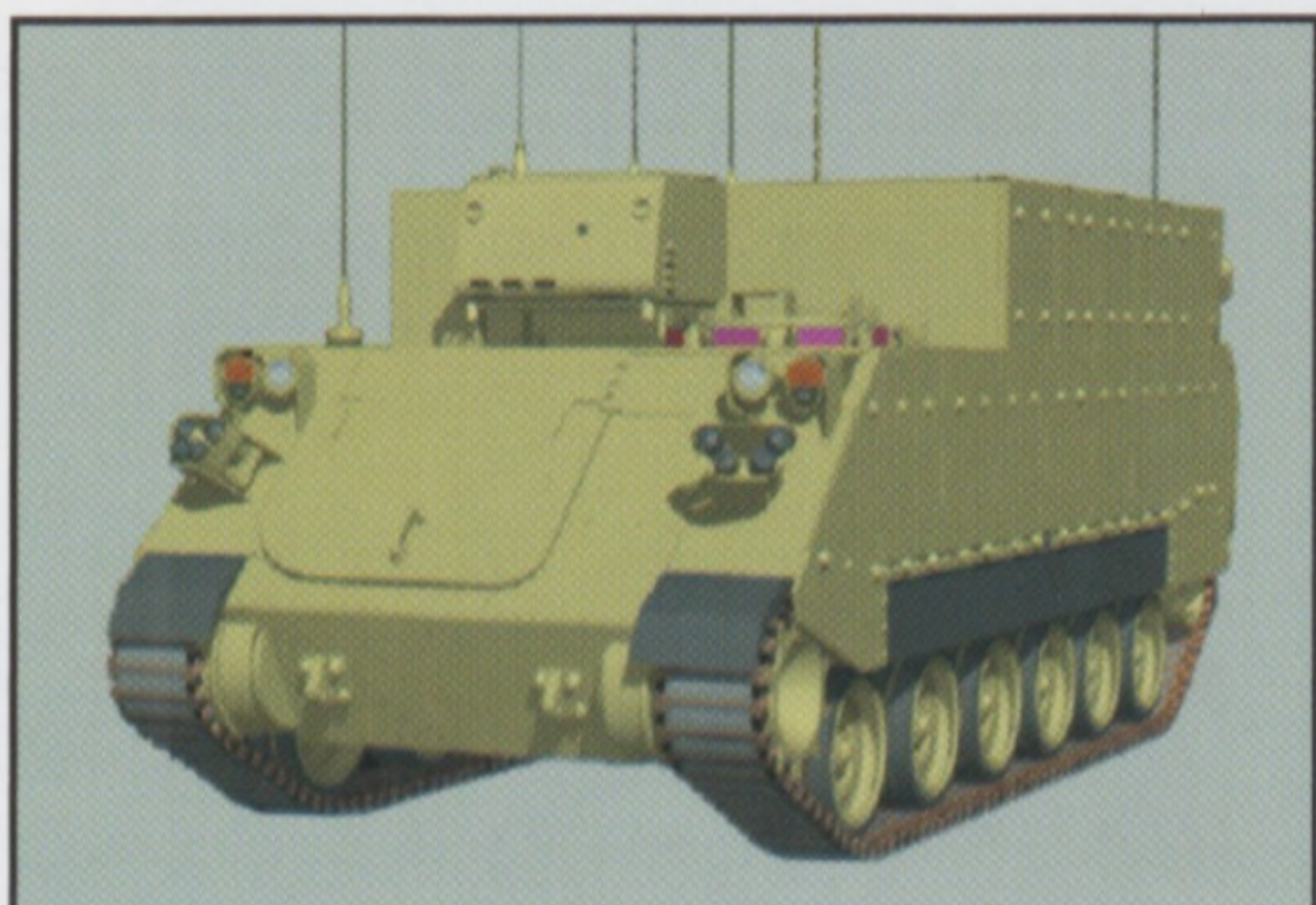
Fire Support Vehicle

The FSV provides automation-enhanced surveillance, target acquisition, target identification, target designation, and communications.



Cargo Carrier Vehicle

The CC provides flexible transport capability with a crane and cargo capacity for six 155mm projectile pallets, an MBT power pack, or equivalent.



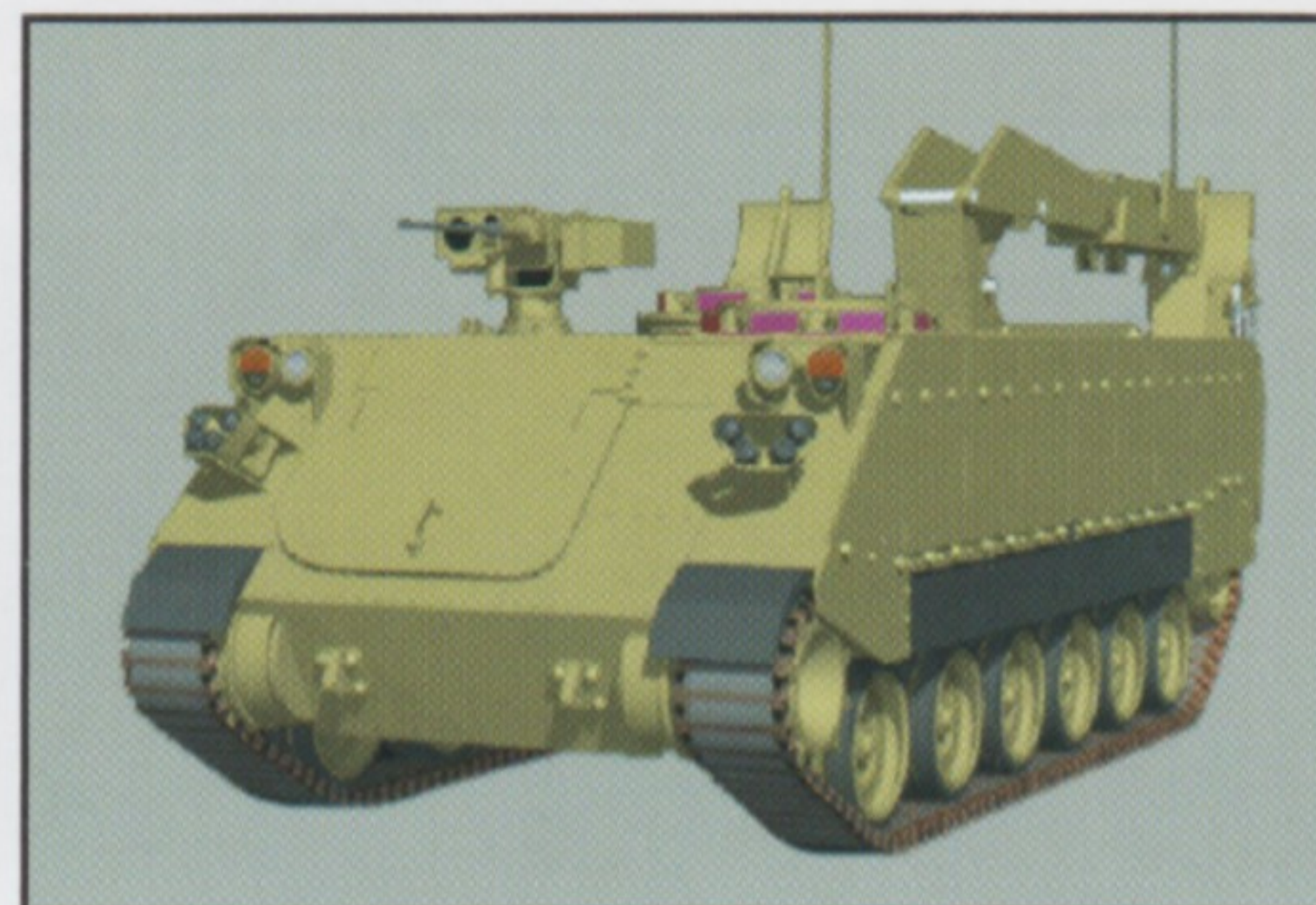
Command Post Vehicle

The CPV offers a dramatic increase in under-armor volume for command operations while maintaining all mobility characteristics of the MTVL FOV.



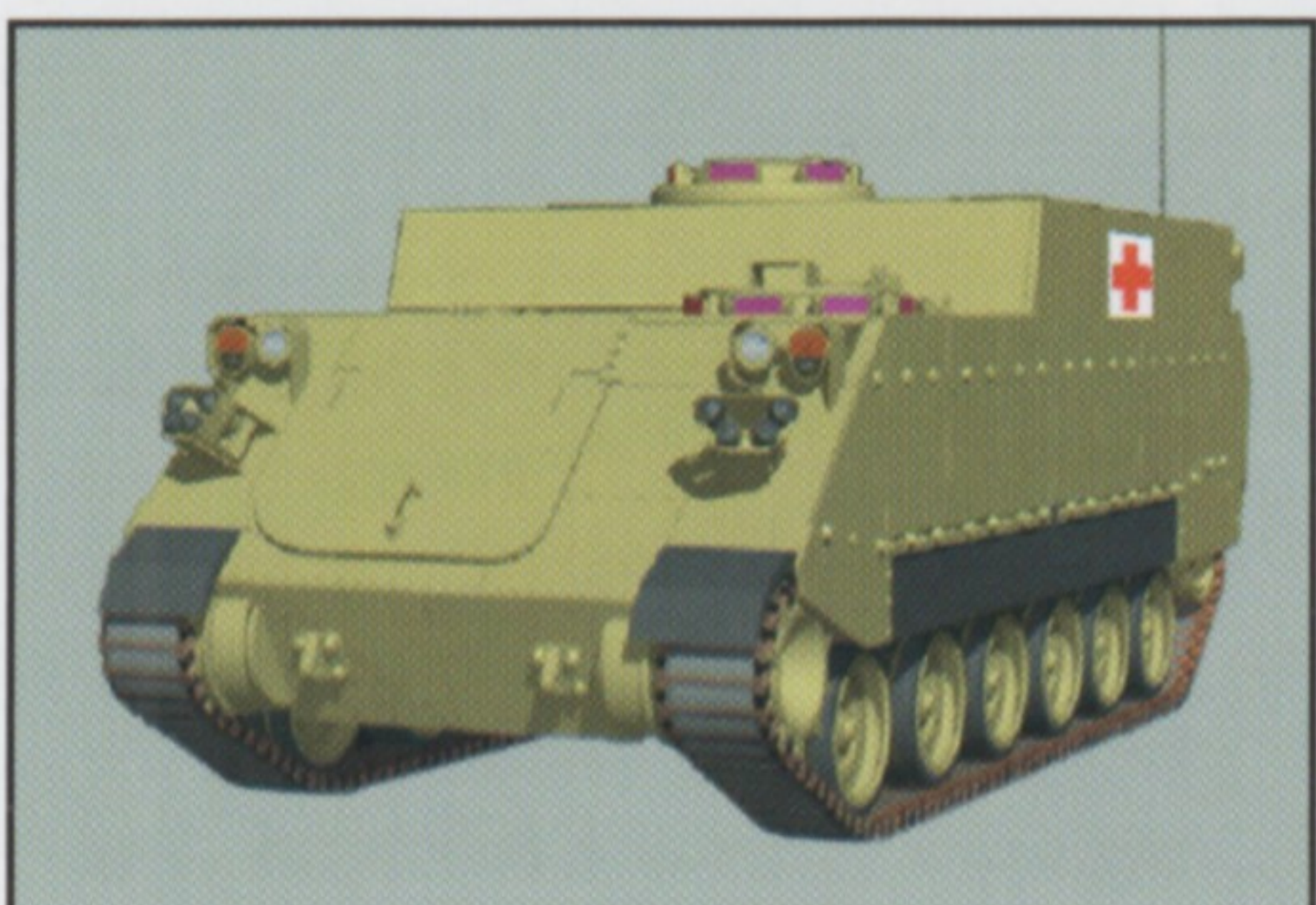
Mortar Carrier

The MC integrates the proven M121 120mm smooth bore mortar as the primary armament. Two mortar ballistic computers control the system directing fire for the 88 on-board mortar rounds.



Repair and Recovery Vehicle

The RRV incorporates a crane, winch and spades to make it an ideal system for performing recovery operations.



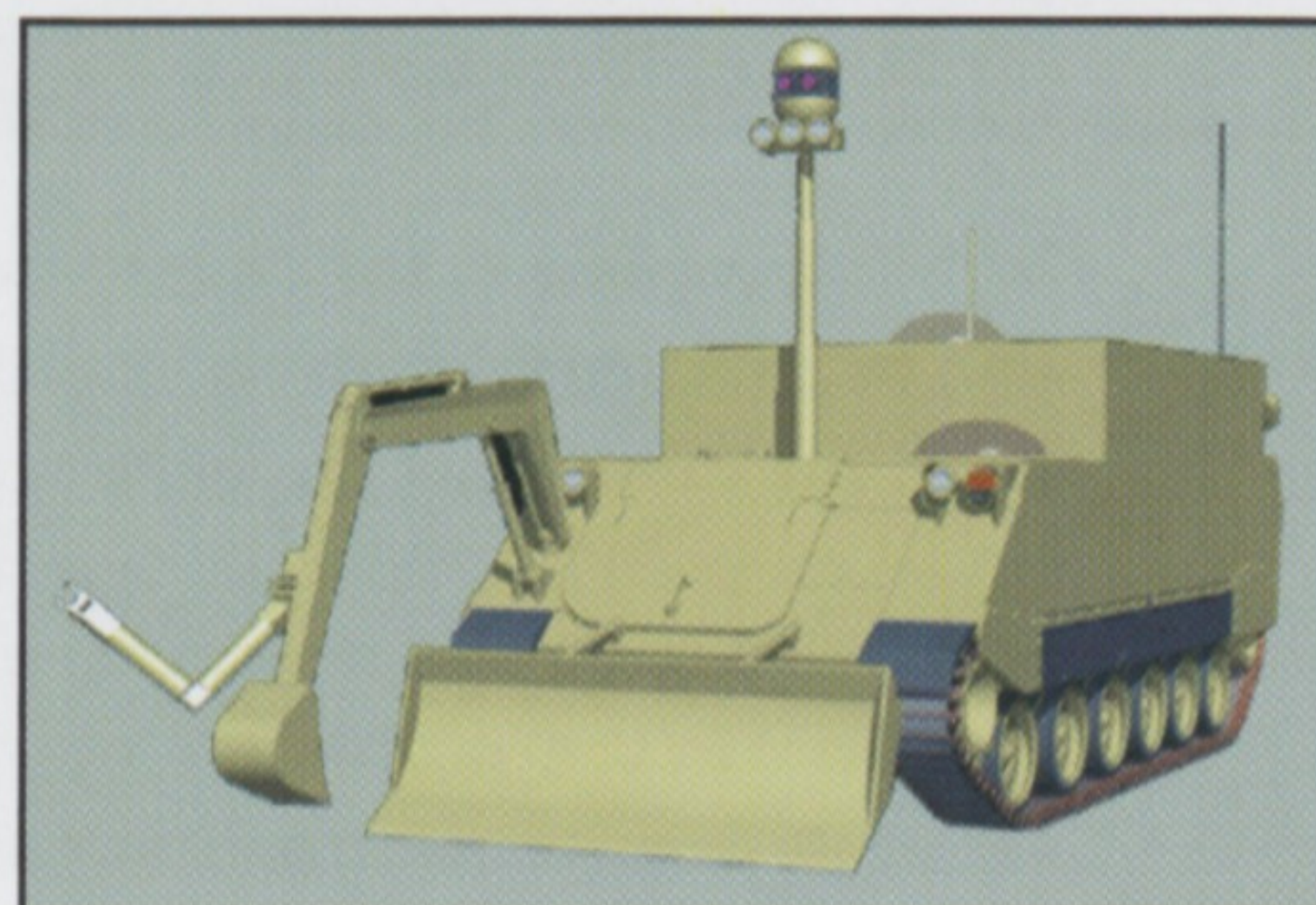
Medical Evacuation Vehicle

The MEV provides the medical team with the ability to treat wounded soldiers on site and provide enroute medical care.



Reconnaissance Vehicle

The Long Range Advance Scout Surveillance System (LRAS3) offers both reconnaissance and surveillance capabilities.



Hazardous Material Response Vehicle

The HAZMAT includes a dozer blade, manipulator arm, and integrated HAZMAT suits to enable a quick response to hazardous material disasters.

Weapon Stations



.50 cal



.50 cal remote



25mm One-Man



25mm Two-Man



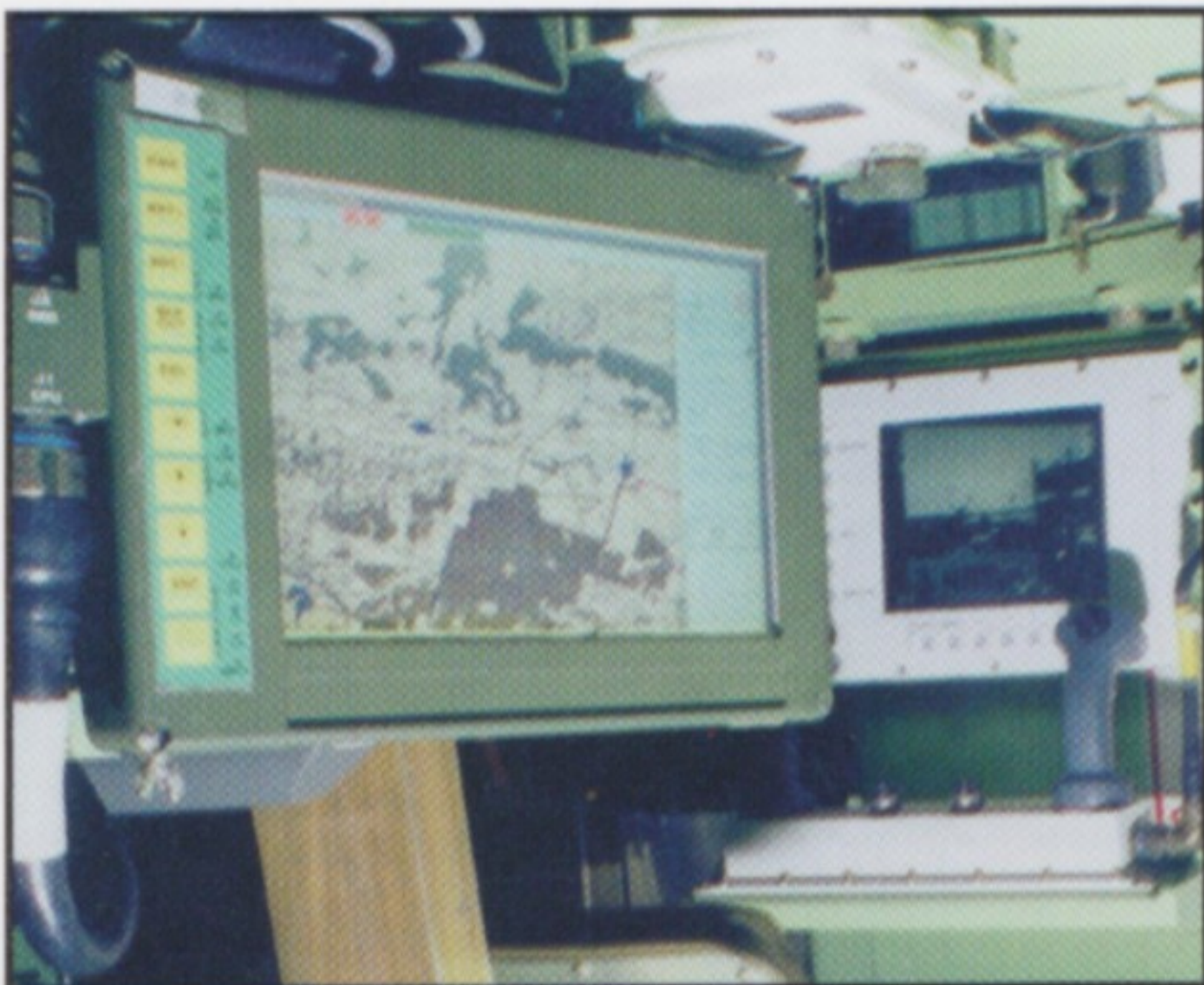
Mk 44 30/40mm Two-Man



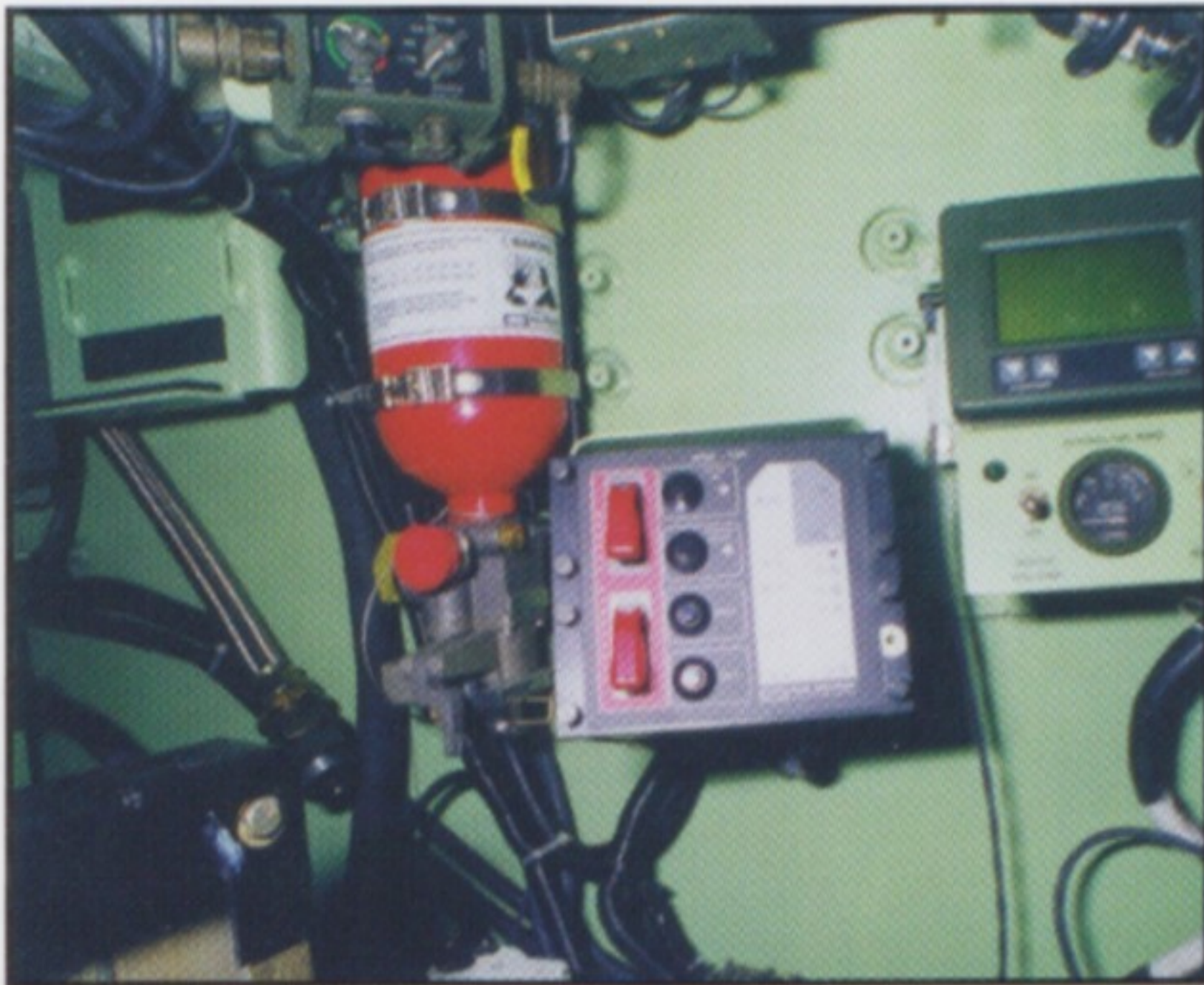
90mm Two-Man

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Options



Situational Awareness



Automatic Fire Suppression



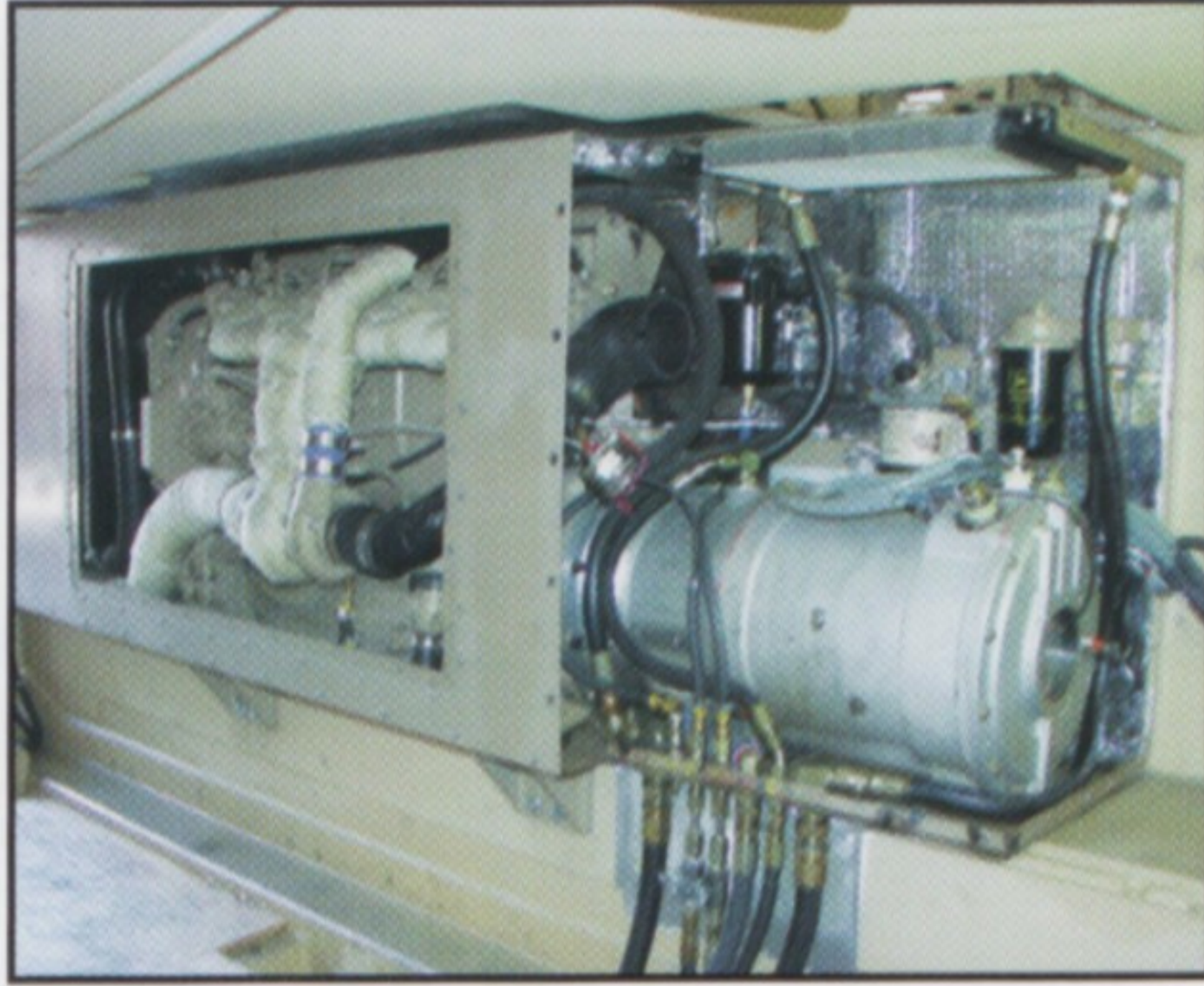
Swim



Band Track

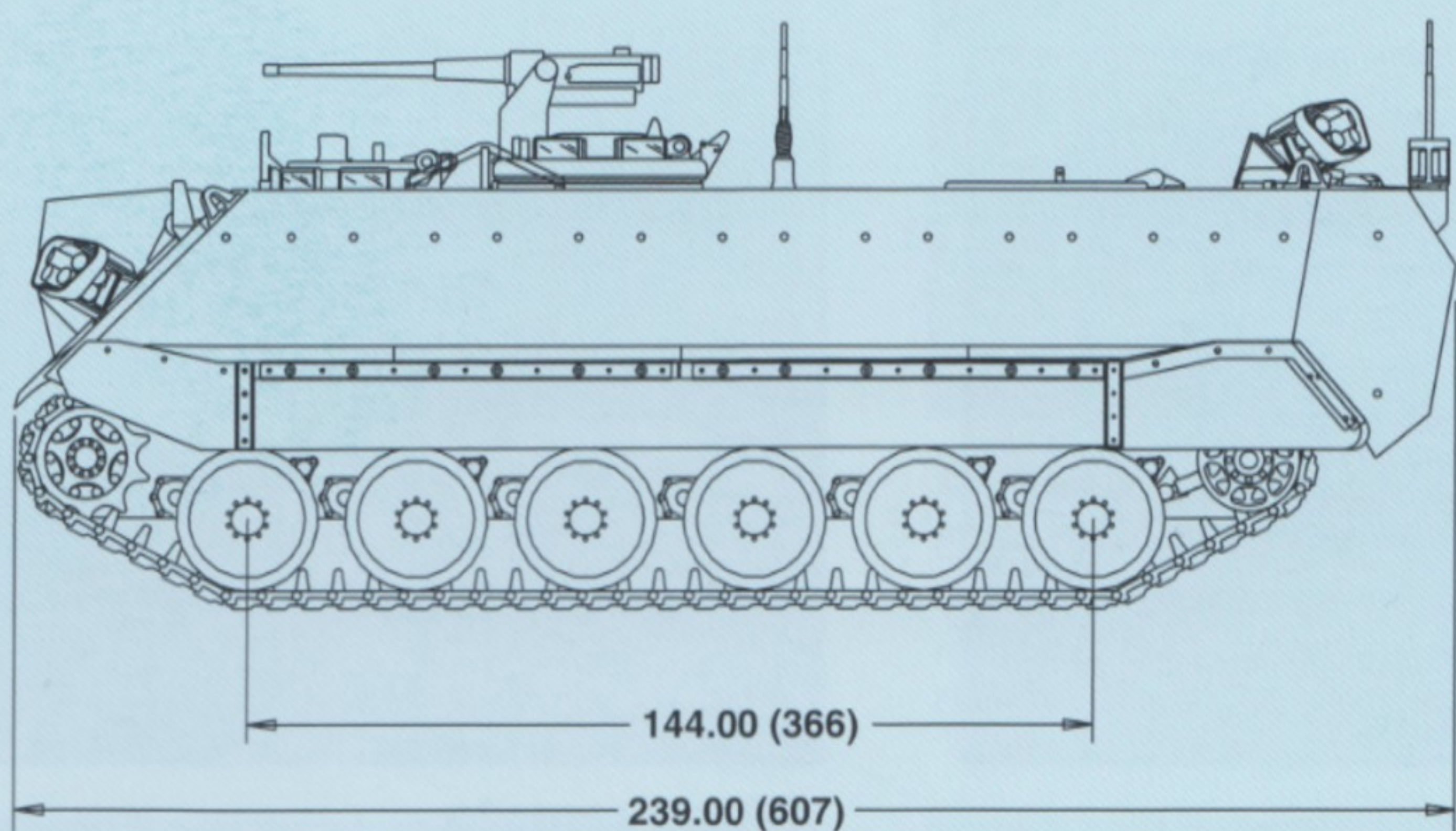
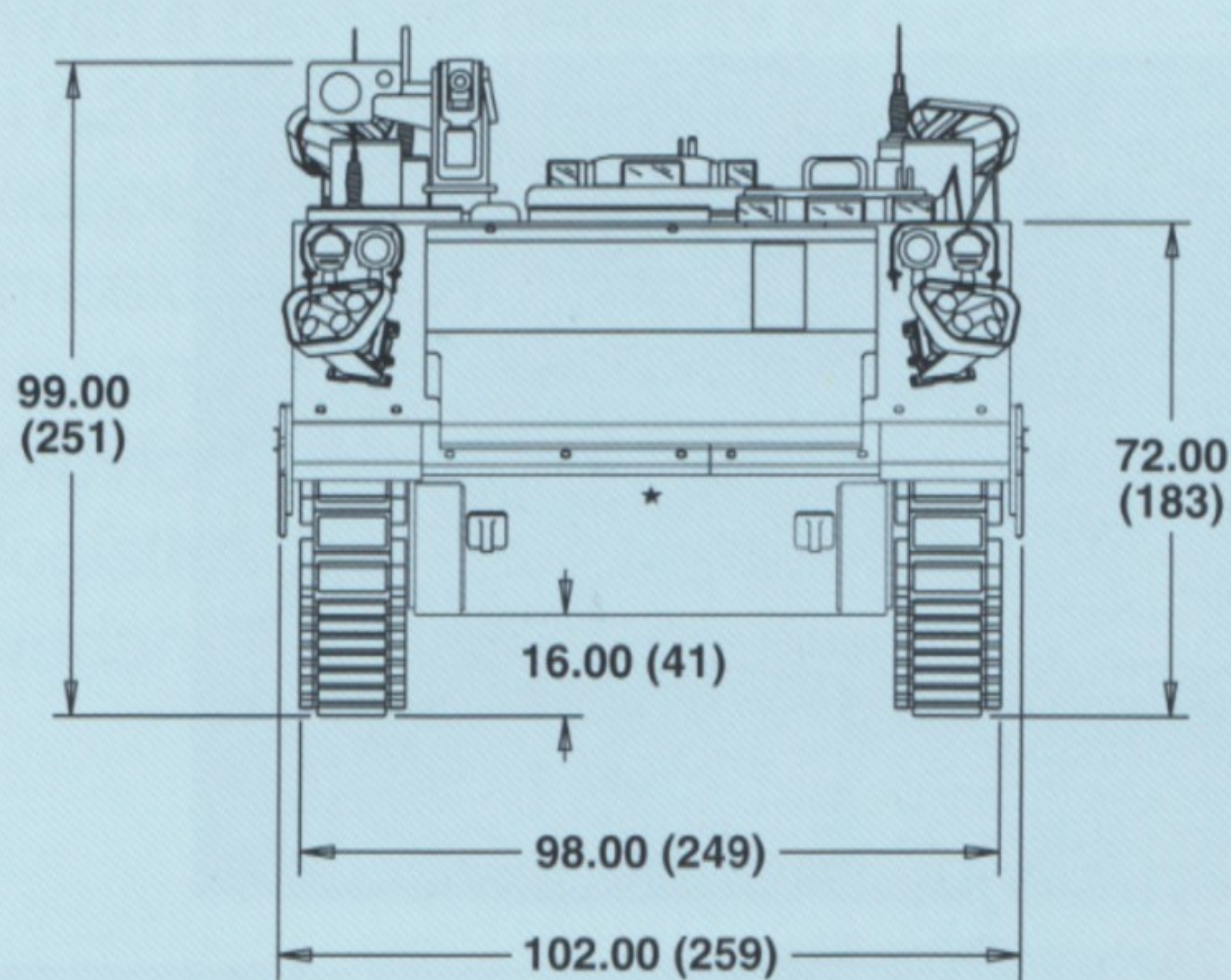


Armor



Electric Drive

Mobile Tactical Vehicle Light Characteristics*



Dimensions in inches (centimeters)

General

Weight, max GVW	40,000 lb (18,140 kg)
available payload	17,100 lb (7,750 kg)
Weight, air transportable	28,000 lb (12,730 kg)
Ground pressure @ max GVW	9.59 psi (.67 kg/cm ²)
Ground pressure @	
air transportable weight	6.48 psi (.45 kg/cm ²)
Fuel tank capacity	130 gallons (492 liters)
Fuel tank capacity w/ droptanks	200 gallons (757 liters)
Crew	Up to 12

Performance

Speed on land	41 mi/h (66 km/h)
Option (weight dependent)	45-55 mi/h (72-88 km/h)
Acceleration, 0-20 mph	7.1 sec
0-30 mph	16.7 sec
Cruising range @ 130 gallons	300 mi (483 km)
w/ droptanks	540 mi (869 km)
Turning radius	Pivot to infinite
Slope	60%
Side slope	40%
Trench crossing	86 in. (2.18m)
Vertical wall climbing	36 in. (.9m)
Gross horsepower-to-weight ratio	20.0 hp/ton

Engine

Make and model	Detroit Diesel 6V53TIA
	electronically controlled
Displacement	318 in. ³ (5.2 liter)
Fuel	DF2 or JP8
Gross horsepower	400 hp @ 2800 rpm
Peak torque	837 ft lbs @ 1600 rpm

Transmission, Automatic

Make and model	Allison X200-Series
Type	Hydrokinetic
Steering	Hydrostatic
Brake type	Multiple wet plate

Running Gear

Suspension type	Torsion bar
Road wheels	6 pair per side
	24 in. diam. (61 cm)
Track type	T150
Number of shoes	75 left; 76 right
Track pitch	6 in. (15.2 cm)
Track width	15 in. (38 cm)
Shock absorbers	4 per side
Total roadwheel travel	15.3 in. (38.9 cm)

Electrical System

Generator	
Amperes	280
Volts, dc	28
Batteries	4, type 6TL, 120 Ah
	12-volt each
Optional generators	400 amp

Fire Extinguishers

Fixed	5 lb (2.3 kg) CO ₂
	for engine compartment
Portable	5 lb (2.3 kg) CO ₂
Optional	
Automatic fire suppression system	Engine compartment
	Crew compartment

Armament

Commander's weapon	50 cal M2, or
	40mm Mark 19, or
	7.62 M240
Optional	One or Two-man
	weapon stations

Armor

Basic	7.62mm AP/155mm overhead
Optional armor packages	14.5mm ballistic
	30mm ballistic
	Chemical energy weapons
	Mine protection
	Spall protection

Driver's Vision Enhancers

Image Intensifying	AN/VVS-2
Thermal	AN/VAS-5

Nuclear, Biological, Chemical Protection

Ventilated face piece	M13
Overpressure	Optional
Regenerative Collective	
Protection System	Optional

Other Options

Swim kit (shown)	
Firing ports	
Air conditioning	
Communication/Navigation packages	

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*All characteristics at max GVW