

ARMORED PERSONNEL CARRIERS

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**APC ADDAX M12 3DR 8.9L
CUMMINS
STANAG LEVEL II**



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The Mine Resistant Ambush Protected (MRAP) is specifically designed to withstand mine blasts and ambushes.

The MRAP provides a combination of interior capacity, tactical mobility and survivability. The vehicle possesses superior mobility, agility, handling, and ride quality through the utilization of a four-wheel independent suspension system. With minor modifications as required by the customer and appropriate outfitting, the MRAP variants can perform a wide variety of missions including scout, infantry personnel carrier, reconnaissance, command and recovery.

The V Shape Hull design, high ground clearance and acute turning circle, allows for superior off-road capability. The vehicle has been put through rigorous testing to ensure it can support the fully loaded weight of the vehicle and payload on any terrain.

Protection Level:

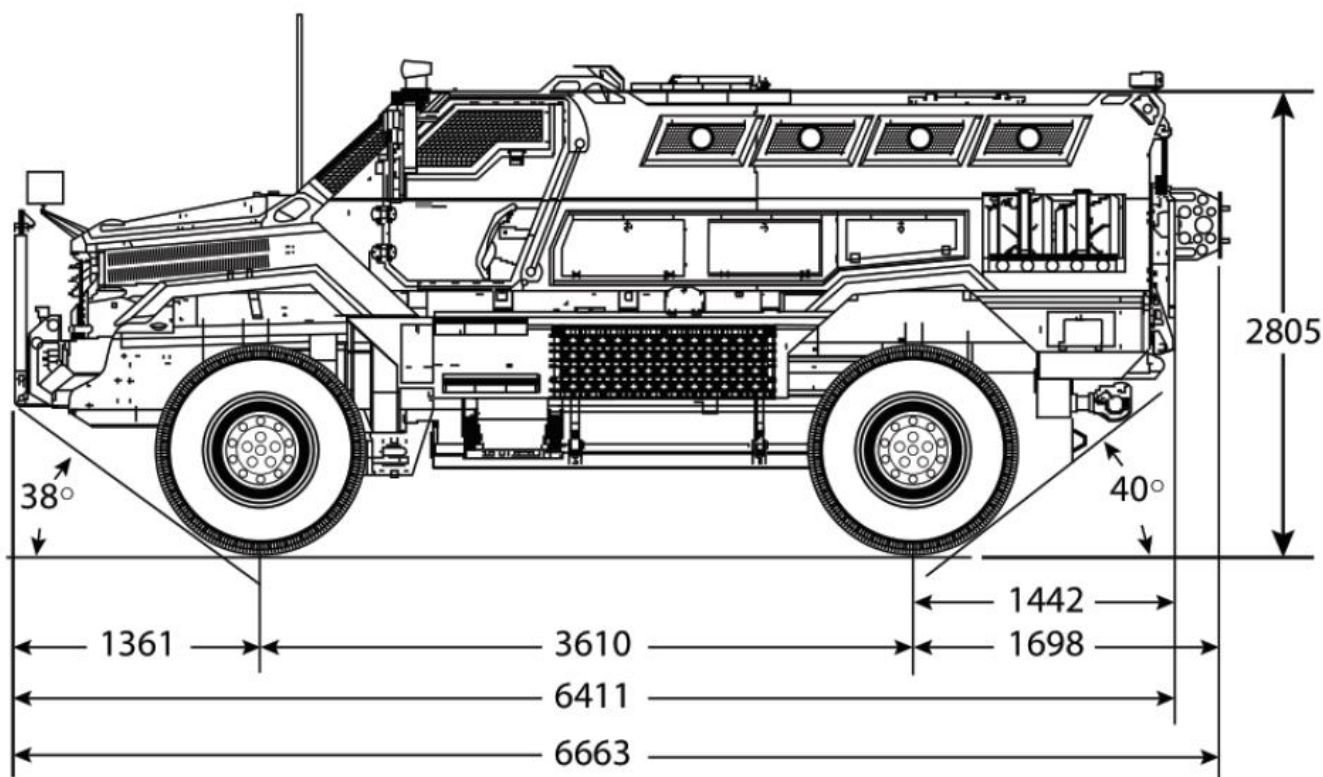
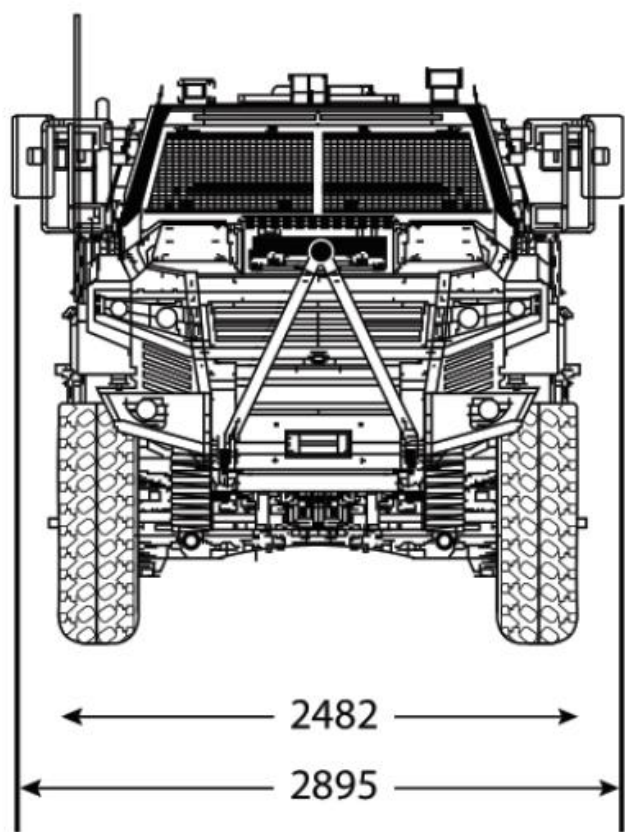
B6 Level
B7 level
STANAG II
STANAG II ballistic
STANAG IV blast

Optional Equipment & Accessories

- Strobe Light Systems
- Siren/PA/Intercom system
- Fire Suppression System
- CTIS system • Blast Resistant Seats
- Roof Mounted Light Bar
- All wheel independent suspension

Manufactured in UAE / JORDAN

MSPV Addax M12 3DR





SPECIFICATIONS

Seating: **02 + 10**

GVW(Kg): **14500 ****

Payload (Kg): **2500**

Engine: **8.9 L Diesel**

6 Cyl Inline Cummins

Engine Power (HP/KW): **400 HP - 298 KW**

Torque (N-m): **Allison 3200 SP**

6 Speed Automatic

Power to weight ratio: **28 HP/ton - 21 KW/ton**

Alternator: **1 x 150 amps**

Suspension: **Front - Independent coil spring**

Rear - Independent coil spring

Brakes: **Front - Pneumatic disk brake**

Rear - Pneumatic disk brake

Max Speed (Km/h): **110**

Max. Gradeability (%): **>60%**

Min TCD (m): **17.8**

Wheel base (mm): **3610**

Wheel track front (mm): **2100**

Wheel track rear (mm): **2100**

Overall width (mm): **2500**

Overall height (mm): **2850 (hull)**

Overall length (mm): **6411 (hull)**

Tires: **14/R20**

CTIS: **Yes**

Approach/departure angle (Deg): **38/40**

Ground clearance (mm): **420**

Fuel tank capacity (L): **350**

Electrical: **24V**

*** Weight mentioned is for STANAG LEVEL-2 ballistic with STANAG LEVEL-4 Blast protection.*

Armoring STANAG LEVEL II NATO STANAG 4569

1. Armoring

Monocoque design body with V – hull

Opaque and transparent five sided armoring of personnel compartment to provide protection against 7.62x51 NATO Ball (Ball M80), 5.56 x 45 NATO SS109 & M193, 7.62 x 39 API BZ, 7.62 x 51 AP (WC core), 7.62 x 54R B32 API (Dragunov) ammunition and tested to meet CEN BR7

Twin layer floor armoring with interlayer space suitable for optional filler is designed to protect the occupants against explosion of 8 kg of TNT equivalent under any of the wheels and meets CEN BR7.

Fuel tanks are protected against 7,62 x 51 NATO Ball ammunition, 5,56 x 45 M193, 5,56 x 45 SS109 NATO, and tested to meet CEN Level B7.

Vehicle body is fully encapsulated to provide armor protection to occupants at all points.

Armor consists of all welded ballistic grade steel construction.

Specific Manufacturing materials and installation techniques are used which permit a significant reduction in cost to the client while maintaining structural integrity and ballistic resistance level, as well as optimizing center of gravity to provide extremely good maneuverability for a vehicle of this nature.

The interior frame, constructed of ballistic grade steel, provides overlap and backup protection for the large-surface principal impact areas such as the doors and windows. It also reinforces the structural integrity of the support pillars and other areas that are crucial to maintaining vehicle safety in any circumstance, including rollover and ramming situations.

Vehicle armoring has been constructed in such a way as to ensure that a projectile following a linear or angled path shall not enter the vehicle's interior without contacting the armor material. In addition to this, the possibility of a projectile entering the vehicle's interior due to a ricochet from the armor shall also be minimized



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2. Glass

- A combination of glass, polycarbonate and Mylar are bonded together using the latest technology, producing one of the finest transparent armors available while incorporating the following qualities:
- Anti-spall shield protecting occupants against shattering glass
- Multiple impact protection.
- Finest optical quality, Minimal distortion
- Minimal delamination
- Minimal discoloration from UV rays

3. Doors

- The vehicle has total of 3 doors: driver's front door, commander's front door and rear door for personnel access.
- All doors are featuring heavy duty hinges
- Design of the doors, hatches and its locks prevents unauthorized access to the vehicle and ensures fast evacuation of crew in case of emergency.
- Doors can be locked from inside and outside. Hatches can be locked from inside. Design of the locks ensures that locks are not opened or misaligned by shock wave from explosive devices.
- Gun ports located next to the view glass in order to allow fire to be returned from any seating position.

4. Electrical

- The vehicle is featuring 12V-24V electrical system
- There are (7) seven dual-mode interior dome lamps installed: (6) in personnel compartment and (1) in commanders' cabin.
- Dome lamps are featuring special illumination mode when light beam is not reaching the body glass of the vehicle thus preventing violation of camouflage of the vehicle. Illumination level of working zone of interior in this mode is 5-7 lx.
- All electrical connectors are protected from reversed connection
- Cable runs for various electrical systems has distinctive color-coding

5. Interior

- All interior components have been fitted by MSPV Manufacturing design staff in order to ensure maximum operational functionality is attained.

6. Seating

- Two (2) individual seats for driver and commander are equipped with seat belts
- 2 Rear Bench Seats, with seating capacity for 10 personnel with seat belts
- All personnel seats are equipped with seat belts
- Internal space of personnel compartment is sufficient for evacuation of wounded personnel

7. Climate control

- The vehicle is equipped with air ventilation system, heater and heavy duty air conditioner
- Two exhaust fans, controlled from a switch located in the driver compartment, have been mounted in the rear of the vehicle in order to provide additional heat dissipation from the interior, as well as easily remove any smoke and/or other airborne chemicals which may be present inside the operational area of the vehicle..

Armoring STANAG LEVEL II NATO STANAG 4569

8. Combat readiness features

- Four (4) ballistic glass windows on the sides of personnel compartment with (4) gun ports through the windows glass. The gun ports can be opened from inside the compartment only.
- 360° traversing turret with preparation for gun mount installation
- The turret is protected to CEN B6 level
- The vehicle is fitted with grab handles on the sides
- The vehicle is fitted with low step in the rear part enabling fast embarkation and disembarkation of personnel
- Two (2) emergency roof hatches located behind the turret
- Four (4) D-shackles for lifting the vehicle while loading and offloading.
- Three towing hooks (2 front and 1 rear)
- Two (2) storage boxes for tools and spares
- Vehicle sides are equipped with stand-on running boards and fenders
- The vehicle is equipped with central tire inflation system controlled from the driver's location which ensures that the vehicle can continue to drive into or out of combat situations even when the tires have been damaged.

9. Other Features

- Motor compartment is armored with fast –removable armor panels to ensure fast access for repair and maintenance.
- Two (2) headlamps with main and dipped beams.
- Two (2) indicators next to headlamps
- Two (2) tails lamps, two (2) rear indicators, four (4) stop lights, one (1) reverse light, one (1) fog lamp
- Two (2) rear view mirrors on A-pillars

Additional Options



- Turret with 360° Bearing
- Winch (Front) – 12T
- Gun Holder
- Rear View Camera with Monitor
- Go Light
- PA System
- Independent Suspension

