



**The Mountain Lion is a versatile armored utility vehicle able to fulfill multiple roles on the battlefield. Engineered for a demanding high payload while ensuring crew survivability, the Mountain Lion enhances the mobility of combat forces and extends expeditionary capabilities. The vehicle is also ideally suited for peacekeeping, peace enforcement and policing type operations.**



The Mountain Lion's unique design incorporates a single piece (monocoque) v-shaped armored hull. This ensures maximum protection from blast threats and offers superb ballistic protection against conventional ammunition and Improvised Explosive Devices (IEDs). Enclosure of all sub-systems within the hull ensures better protection thereof. The vehicle can carry a crew of up to 2 plus 8 soldiers complete with their kit and special equipment for at least a 48 hour combat mission.



Use of applied systems engineering techniques has culminated in unprecedented survivability for both the crew and vehicle. This engineering is founded in the knowledge base from the development and operation of the unrivalled Husky Vehicle Mounted Mine Detector (VMMD) as well as through feedback from customers using this vehicle. The VMMD has been acquired by the US government on



a Program of Record and successfully deployed in Africa, Middle East, Balkans and Asia. It has also successfully completed arduous and comprehensive testing conducted in South Africa and at the US Army's Yuma Proving Grounds in Arizona, Aberdeen Proving Grounds in Maryland and the White Sands Missile Range in New Mexico.

Tactical mobility and crew comfort (endurance) during missions is achieved through the combination of a powerful 360 hp engine coupled with a six speed automatic transmission, suitably matched transfer transmission and planetary axles fitted with double wishbone fully independent suspension and coil springs which have been integrated with high performance dampers.

**The Mountain Lion is equipped with the unique Four Wheel Steer (4WS) system that has been combat proven on the Husky VMMD. This dramatically reduces the turning circle enhancing the Mountain Lion's mobility in close terrain and urban areas.**

#### Main Features

- Fully air conditioned
- Combat proven blast attenuating seats and energy absorbing floor panels
- 570 A alternator to operate a wide range of communication, surveillance and other electronic equipment
- The Automatic Fire Extinguisher System (AFES) which is supplied to Military Specifications
- Strategic mobility to ensure vehicle can be transported in a C-130 aircraft (without preparation required)
- Use of commercial components to ease logistical footprint
- Removable floor panels and a one-piece engine hood facilitate easy maintenance
- The large internal volume under-armor and payload capacity allows versatility and adaptations to various configurations
- Provision has been for fitment of a remote weapon station or weapon mount of customer choice
- A digi-rack also allows for easy installation and storage of communication and other add-on electronic equipment required



**ML**  
**MOUNTAIN LION**  
 "POWERFUL, GRACEFUL, AGILE... AND ADAPTABLE"

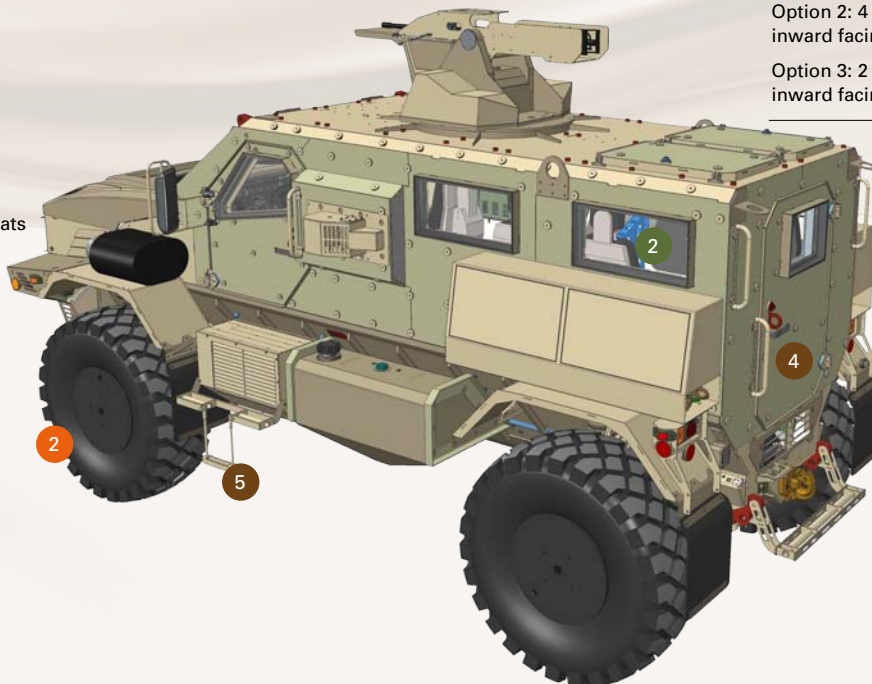
# MOBILITY

- Suspension**  
Double wishbone independent suspension axles  
High performance dampers  
Progressive coil springs  
14 in (350 mm) travel
- Steering**  
Permanent 4 wheel steering (Proven in Husky VMMD)  
Turning circle of 12.5 m
- Power to Weight Ratio**  
32 hp/ton (24 kW/ton)
- Transportability**  
Low height facilitates transport in C-130  
Front, rear and central tie-down points  
Lifting lugs
- Recovery**  
25 000 lbs (11 350 kg) winch  
Front and rear recovery points
- CTIS Modes**  
Road / Off-road / Sand / Emergency



# PROTECTION

- Blast Protection**  
Fully enclosed V-shaped hull  
Protects crew and vehicle systems  
Roof mounted blast attenuating seats  
Energy absorbing floor panels
- Ballistic Protection**  
Exterior and interior bolt-on armor  
Tailored to customer requirements
- IED Fragmentation Protection**  
Exterior and interior bolt-on armor  
Tailored to customer requirements
- Fire and Explosion Protection**  
Cabin and engine bay - automatic activation  
Tires - manual activation
- Situational Awareness**  
Large side and front windows

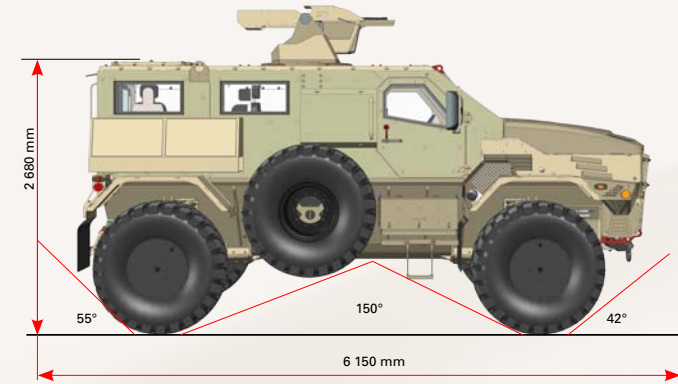


# VERSATILITY

- Weapons Mount**  
Up to 38 in (970 mm) diameter ring mount  
Accepts turrets up to 1500 lbs (700 kg) (Manual or remote control)
- Storage**  
Various large capacity bins provide storage for crew's kit and equipment
- Maintenance**  
One-piece engine hood and "platform" fenders and bumpers provide easy access to engine bay
- Cabin Rear Access**  
Large rear door  
Easy loading of cargo  
Ambulance configuration
- Cabin Side Access**  
Large side doors  
Ergonomic and robust steps
- Seating Options**  
Option 1: 6 forward facing seats  
Option 2: 4 forward plus 4 inward facing seats  
Option 3: 2 forward plus 8 inward facing seats

**Fitted For But Not With:**  
Sparks rollers  
Rhino  
Gyrocam  
IED interrogation arm  
Check 6 rear view camera

## Dimensions



Width (excluding mirrors) 99 in (2510mm)  
Ground clearance 17.5 in (445mm)

## Mass

Curb weight 24 600 lbs (11 200 kg)  
Combat weight 28 600 lbs (13 000 kg)  
Payload 44 400 lbs (2 000 kg)  
GVWR 33 000 lbs (15 000 kg)

## Powertrain

Cummins QSB 6.7 6 cylinder turbo diesel  
360 hp / 810 lb-ft (diesel/JP8)  
Allison 3000SP 6 spd auto transmission with retarder  
ZFVG750 transfer case with low range

## Brakes

Pneumatic dual circuit  
Disk brakes all round  
ABS  
FMVSS 121 certified

## Wheels

10 x 20" aluminum rims  
14.00 R20 tires  
Hutchinson run flat inserts

## Performance

Max speed 68 mph (110 km/h)  
Max acceleration 0-30 mph (50 km/h) 11 sec  
Max gradient 70%  
Max side slope 30%  
Range 460 mi (750 km)  
Min operating temperature -26° F (-32° C)  
Max operation temperature 135° F (57° C)

## Electrical

24 V  
Actia power management system  
Niehoff N1609 570 A alternator  
14 kW @ max engine speed (Current)  
12 kW @ engine idle speed (Under development)  
24 kW @ max engine speed (Under development)



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