

ARTILLERY FORWARD OBSERVATION VEHICLE

Highly mobile vehicle for various observation, reconnaissance and patrolling missions, target survey and target acquisition by day and night under ballistic and NBC protection.

Instant and accurate target coordinate acquisition by highly sophisticated optronics in combination with a land navigation system.

Target data transmission to Integral Artillery Fire Command and Control System and to firing units by online data transmission.

Low crew fatigue due to comfortable and generous working stations, raised roof concept with panoramic windows, air conditioning system.



EAGLE III

4x4

A GENERAL DYNAMICS COMPANY

MOWAG
PROTECTED MOBILITY



EAGLE III 4x4

GENERAL STATISTICS

Weights

Ready for operation:	5100 kg
Payload:	700 kg
Total combat weight:	5800 kg

Dimensions

Overall length:	4.90 m
Heights:	
Sensor mast retracted:	2.60 m
Sensor mast extended:	3.20 m
Overall width:	2.28 m
Wheelbase:	3.30 m
Ground clearance:	0.40 m
Angle of approach:	60°
Angle of departure:	50°
Number of seats:	4

Performances

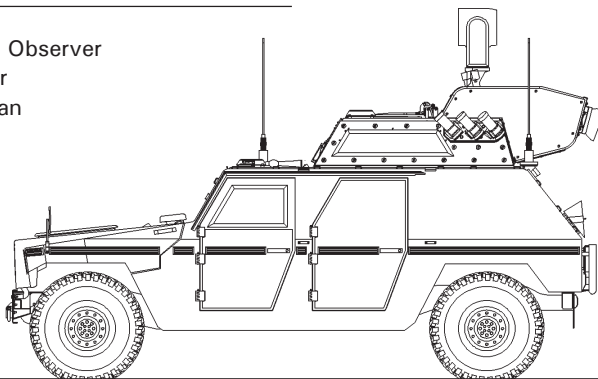
Max. speed on roads:	120 km/h
Max. reverse speed:	33 km/h
Gradient:	60%
Max. side slope:	40%
Turning circle diameter:	15.0 m
Fuel tank capacity:	95 l
Range on roads:	400 km
Power-to-weight ratio:	24.0 kW/t

Engine

Manufacturer:	General Motors
Type:	6.5 L Turbo
Function:	4-stroke / Diesel
No. of cylinders:	V8 / 90°
Performance:	139 kW (190 hp)

Vehicle Crew

- Forward Observer
- Surveyor
- Signalman
- Driver



Transmission

Manufacturer:	Hydra-Matic
Type:	4 L 80 E
Transmission:	automatic
Number of gears:	4 + 1 r.

Driveline and Suspension

Wheel drive:	permanent, four wheel
Transfer case:	Two-speed, differential lock
Differential:	Torsen, self locking
Independent wheel suspension with double control arms	
Brakes:	Disc type
Steering:	Hydraulic power assisted
Tires:	37x12.50 R16.5LT with run-flat cores

Navigation System

Manufacturer:	Honeywell
Principle:	Inertial, VMS & GPS aided
Accuracy x, y position:	
Inertial: < 4 km	< 18 m CEP
> 4 km	< 0.25 % Dist. trav.
GPS:	< 10 m CEP
Accuracy z position:	
Inertial: < 10 km	< 10 m PE
> 10 km	< 0.1 % Dist. trav.
GPS:	< 10 m PE
Pointing/heading:	< 0.5 mils * Sec(Lat) RMS
Roll / Pitch:	< 0.5 mils RMS

Observation System

Manufacturer:	STN ATLAS Elektronik
Thermal camera:	range 7 km
Video camera:	range 10 km
Laser range finder:	range 10 km eyesafe
Observation angles:	Elevation +/- 30° Azimut +/- 220°

Target Acquisition

Accuracy x/y coord.:	< +/- 50 m
Accuracy z coord.:	< +/- 15 m
Max. distance:	7 km

Target Data Transmission

Online radio data transmission to Integral Artillery Fire Command and Control System and firing units

Ballistic Protection

- High hardness armoured steel
- Composite armour
- Mine protection kit

Optional Equipment

- NBC overpressure system
- Central tire inflation system (CTIS)
- Air conditioning system
- Add-on mine protection

