

# MOWAG EAGLE III 4x4

## ARTILLERY FORWARD OBSERVATION VEHICLE

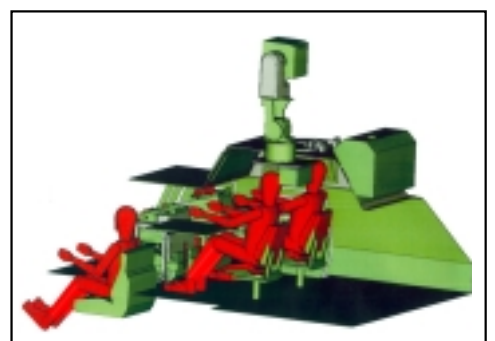


Highly mobile vehicle for various observation, reconnaissance and patrolling missions, target survey and target acquisition by day and night under ballistic and NBC protection.

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.

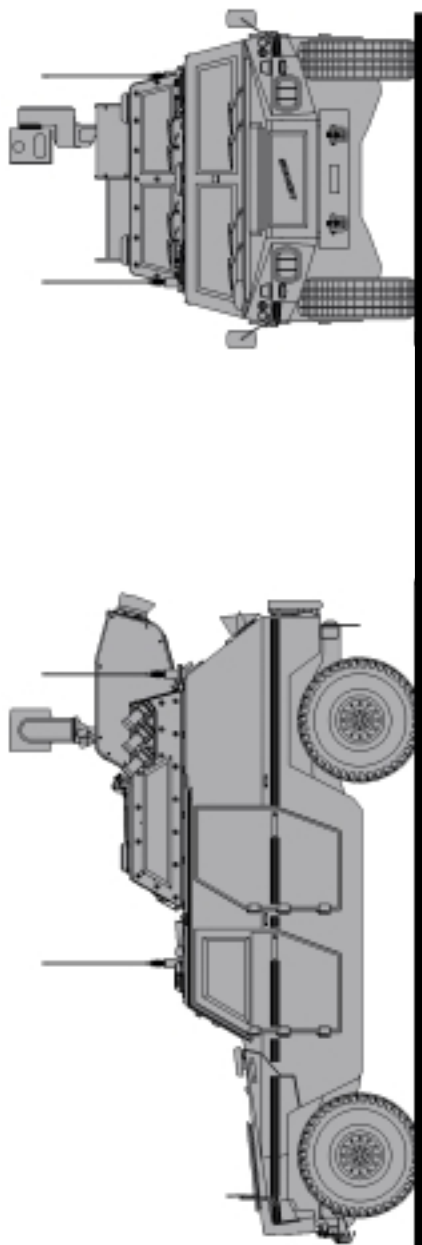
Low crew fatigue due to comfortable and generous working stations, raised roof concept with panoramic windows, air conditioning system.



EAGLE

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## TECHNICAL DATA



### 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

### Weights

Weight	
ready for operation	5100 kg
Payload	700 kg
Total combat weight	5800 kg

### Vehicle Performances

Max. speed	120 km/h
Max. speed reverse	33 km/h
Gradient	60 %
Side slope	40 %
Turning circle diameter	15.0 m
Fuel tank capacity	95 liters
Range on hard level surface	400 km
Power-to-weight ratio	24.0 kW/t

### Engine

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

### Transmission

Manufacturer	Hydra-Matic
Type	4L80E
Transmission	automatic

### Ballistic protection

High hardness armoured steel
Composite armour
Mine protection kit

### Vehicle Crew

Forward Observer
Surveyor
Signalman
Driver

### 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 with run flat cores 37x12.5 R 16.5 LT	

### Navigation System (HONEYWELL)

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

### Observation System (STN ATLAS Elektronik)

Thermal camera	range	7 km
Video camera	range	10 km
Laser range finder	range	10 km
eyesafe		
Observation angles	Elevation	+/- 30°
	Azimuth	+/- 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	
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### Optional Equipment

NBC overpressure system
Central tyre inflation system CTIS
Air conditioning system
Add on mine protection



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