



MOWAG EAGLE 4x4

***Armoured
Reconnaissance
Vehicle***



***Cost-effective
and affordable***



The EAGLE 4x4 benefits from the logistical sup

The internationally successful AM General Hummer chassis forms the platform for the MOWAG EAGLE 4x4 Armoured Reconnaissance Vehicle.

The lightweight EAGLE 4x4 is ideally suited for reconnaissance, surveillance, liaison, escort, border patrol and police missions.

The complete EAGLE 4x4 system comprises three main elements:

- The modified Hummer "heavy" chassis, also designated as the HMMWV High-Mobility-Multipurpose-Wheeled-Vehicle.*
- The unique armoured super-structure designed and manufactured by Mowag.*
- The armoured observation cupola MBK2, developed and manufactured by Mowag.*



The EAGLE 4x4 meets the requirements for peace-keeping missions of UN-Forces



port system of the original Hummer vehicle

Baseline vehicle

Notwithstanding its armor protection, the mobility and relevant performances are equal to the original Hummer vehicle.

The Eagle 4x4 is NBC-tight and provides four individual upholstered comfortable seats.

The fully equipped vehicle is air-transportable by C-130 aircraft or helicopter.

Superstructure

The dimensions have been kept identical to those of the original Hummer with the exception of the width, which is increased by approx. 100 mm.

The superstructure offers comfortable space for four persons.

Built-in stowage compartments are provided for individual equipment. All windows are made of bullet proof glass.

Access by four lateral doors for the troops and one rear door for the cargo.

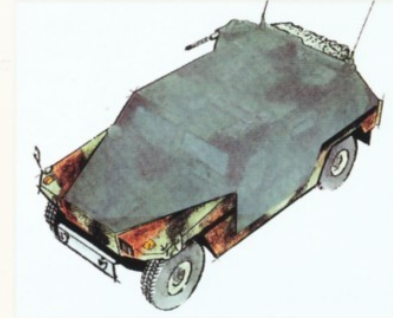
Observation cupola

The 360° rotating observation cupola, containing a thermal imaging unit, is located in the centre of the vehicle roof. This allows all-round observation in an NBC secure vehicle by day/night and under all weather conditions.



Ballistic protection

The ballistic protection requirement is met with the application of state-of-the-art protection technology. Composite armour plates have been mounted to the inner face of the aluminium plates.



Grey marked area protected against:

7.62 mm BALL	from 30 m
5.56 mm BALL	from 30 m
7.62 mm steelcore	from 100 m



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7.62 mm BALL	from 30 m
5.56 mm BALL	from 30 m



The EAGLE 4x4 is field tested and presently in production for the Swiss Army.

TECHNICAL DATA

1. Dimensions

Overall length	4900 mm
Height over hull	1750 mm
Overall width	2280 mm
Wheelbase	3300 mm
Wheel track (front, rear)	1810 mm
Ground clearance	400 mm
Angle of approach	60°
Angle of departure	50°
Number of seats	4-5

2. Weights

Weight empty (baseline vehicle)	3800 kg
Payload	1000 kg
Total combat weight	4800 kg
Max. axle load front	2100 kg
Max. axle load rear	2700 kg

3. Performances

Max. speed	125 km/h
Max. speed reverse	35 km/h
Gradient	60 %
Side slope	40 %
Turning circle diameter	14,6 m
Fuel tank capacity	95 l
Range on hard level surface	450 km
Spec. ground pressure (rear)	21 N/cm ²
Power-to-weight ratio	24,4 kW/t
	33,3 HP/t
Fording depth	0,76 m



Observation cupola

Simple and low-cost design. Primary task is observation with self-defence capability by a 7.62mm machine gun operated from inside the cupola as well as the six grenade launcher tubes. Traverse and elevation drives are mechanical.

4. Drive Train

Engine	
Manufacturer	General Motors
Type	6,5 L NA
Function	4-stroke / Diesel
No. of cylinders / arrangement	V8 / 90°
Performance at 3400 rpm	117 kW (160 HP)
Torque at 1700 rpm	393 Nm

Gearbox

Manufacturer	Hydra-Matic
Type	4 L 80 E
Transmission	automatic
Gear ratios	1. gear 2,48
	2. gear 1,48
	3. gear 1,00
	4. gear 0,75
	R. gear 2,08



Transfer case

Manufacturer	New Venture
Road gear	1:1
Off-road gear	2,72:1
4x4 permanent drive	Bevel gear differential

Axles + Suspension

Manufacturer	AMGC
Axle gear	with torsion differential
Independent wheel suspension with double control arms	
Brakes	disc brakes on all four wheels

Tires with run-flat core	37x12,50 R 16,5 LT
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5. Electrical system

Voltage	24 V
Alternator	24 V / 100 A
Battery	24 V / 125 Ah
Starter	24V / 7 kW
Lighting front	Headlamp with blackout light, turn signal with position lamp
Lighting rear	Stop-tail-turn-light assembly, integrated blackout light

6. Standard accessories

Hydraulic power assisted steering	
Roof fan	220 m ³ /h

7. Auxiliaries / Options

Heater in crew-compartment	7 kW heating capacity
Preheat unit	7,5 kW heating capacity
NBC overpressure system	85 m ³ /h
Central tyre inflation system CTIS	
Air conditioning system	
Front self-recovery winch	5,4 ton pulling capacity

Subject to change without notice



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