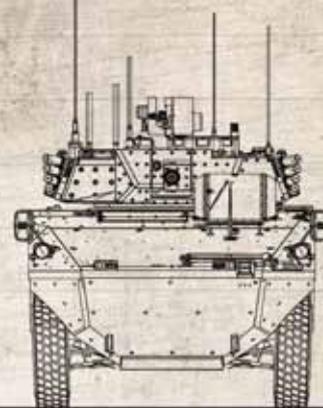
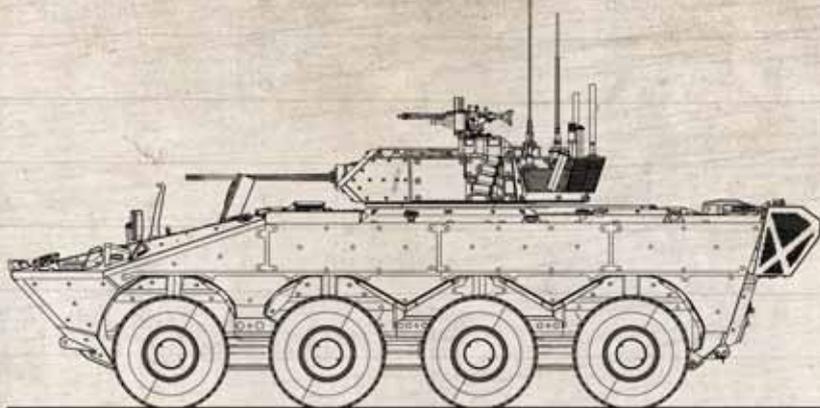


VBM FRECCIA AIFV/ATGM



Dimensions

Length	8.56 m
Height (hull)	2.04 m
(with turret)	3.18 m
Overall Width	2.99 m
Ground clearance	0.41 m
Wheelbase	2.50 m
Approach angle	40°
Departure angle	40°
Seats	1 + 2 + 8

Weight / Volume / Payload

Empty weight	22.0 t
Payload	8.0 t
GVW (Maximum)	31.5 t
Internal volume	11 m ³

Performance

Max. speed (paved road)	110 km/h
Gradient	> 60%
Side slope	> 30%
Range on road (70 km/h)	> 800 km
Step	≥ 0.6 m
Trench	≥ 2 m
Fording depth (without preparation)	1.5 m
Turning circle radius (curb to curb)	< 9.0 m
Power to weight ratio (in combat order)	21 HP/t

Mobility

Engine	IVECO 8262 6V turbocharged after cooler
Fuel	Diesel fuel/JP8
Power	405 kW (550HP)
Torque	2000 Nm (202 kgm)
Gearbox	Automatic type
Number of gears	5 + 2 r.

Driveline / Suspension

Single-differential twin-shaft design
(H-shaped driveline)
Hydro-pneumatic and independent suspension
Steering on 1st - 2nd and 4th axle
All - disk "Full - Power" braking system

Wheels

14.00R20 XZL/XML
Run-flat VFI system
Central Tyre Inflation System (CTIS)

Survivability

Low vehicle profile
High hardness monocoque steel hull
Direct fire ballistic armour (base level)
AT mines protection (base level)
Anti-mine seats
Laser warning system

Options

Hydraulic Winch
NBC protection (collective with individual backup)
Fire Extinguishing/Anti-explosion system in Crew cabin
Auxiliary heaters
Anti-explosion/self-sealing fuel tanks
Direct fire ballistic armour (advanced level)
AT mines protection (advanced level)
Specific IED protection suite

Driver sights

n° 3 episcopes in front of the hatch
night vision goggles

Turret

Crew

2 men (commander and gunner)

Armament

Main n° 1 KBA OERLIKON 25 mm
or n° 1 ATK MK 44 30 mm
Coaxial n° 1 MG 7.62 mm
n° 2 ATGM Launchers (option)
External Anti-Aircraft n° 1 MG 7.62/5.56 mm
Grenade launchers n° 8 GALIX x 80 mm

Ammunition

Main gun
n° 200 rounds (minimum) ready to fire
(n° 120 HE + n° 80 APDS or vice-versa)
Coaxial gun
n° 600 rounds ready to fire
External Anti-Aircraft
n° 200 rounds (minimum) 7.62 mm ready to fire
Grenades
n° 8 grenades ready to fire
n° 8 grenades stored in the turret

Electrical servo systems

Azimuth continuous n x 360°
Elevation -10° +60°
Maximum speed (elevation) 0.5 rad/sec
Minimum speed (elevation) 0.5 mrad/sec
Maximum acceleration (elevation) 1 rad/sec²
Maximum speed (azimuth) 1 rad/sec
Minimum speed (azimuth) 0.5 mrad/sec
Maximum acceleration (azimuth) 1 rad/sec²

Gunner sights

n° 1 frontal episcopes
Day/night sight and LRF with visualization of the images on a TFT display

Commander sights

n° 8 episcopes around the hatch
TFT display for the visualization of the images coming from the day/night gunner sight.
Day/night panoramic sight and LRF with visualization of the images on a TFT display.