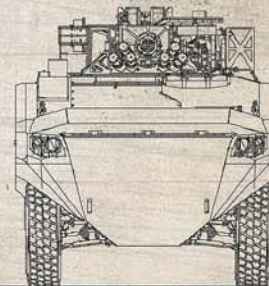
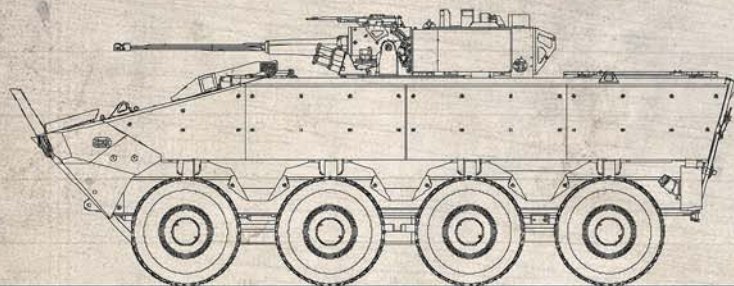


VBA

Amphibious Armoured Vehicle



Dimensions

Length	7.92 m
Height (hull)	2.31 m
Overall Width	2.72 - 3.00 m
Ground clearance	0.45 m
Wheelbase	2.30 m
Approach angle	49°
Departure angle	45°
Seats	1+12

Weight / Volume / Payload

Empty weight	15 t
Payload	
- amphibious operation	9.0 t
- land operation	10 t
GVW (Maximum)	
- amphibious operation	24 t
- land operation	25 t
Internal volume	14 m ³

Performance

Max. speed	
(paved road)	>105 km/h
(in navigation)	10 km/h
Gradient	> 60%
Side slope	> 30%
Range on road (70 km/h)	800 km
Range on water 2/3 max speed	80 Nm
Step	≥ 0.6 m
Trench	≥ 2 m
Fording depth	1.5 m
Turning circle radius	9÷11 m
Power to weight ratio	>22.5 HP/t

Mobility

Engine	IVECO Cursor 13 turbocharged inter cooler
Fuel	Multifuel
Power	412 kW (560HP)
Torque	2200 Nm
Gearbox	ZF 7HP902
Number of gears	7 + 1 r

Driveline / Suspension

Single-differential twin-shaft design
Hydro-pneumatic and independent suspension Mc Pherson
Steering on 1st and 2nd axles
Transversal differential lock
Disengageable front axle

Wheels

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

Electric System

Full digital dashboard
Built-in Diagnostic System
> 500A User Available Power

Survivability

High hardness monocoque steel hull
Direct fire ballistic armour (base level)
A/T mines protection (base level)
Anti-mine seats
Fire Extinguishing/Anti-explosion system in engine compartment
Anti-explosion / self-sealing fuel tanks
8x80 mm smoke grenade launchers

Amphibious Operation

Sea state >3
Hydraulic-powered independent propellers
Front break water
Snorkel
Bilge Pumps

Options

Rear Ramp
4th axle steering
12.00R20 XML/XZL wheels
Height Management System
Hydraulic Winch
Automatic air conditioning system
NBC protection (collective with individual backup)
Auxiliary heaters
Fire Extinguishing/Anti-explosion system in Crew cabin
Laser Warning system
Direct fire ballistic armour (advanced level)
A/T mines protection (advanced level)
Specific IED protection suite
Active Protection System
All-round video cameras

Armament

Main Weapon 30 mm MK44 ATK
Secondary weapon 7.62 mm coaxial
Anti tank weapon 2 Spike missile launchers (twined)

Firing direction system

Main Weapon Fully digital gyro stabilized
Gunner sight Gyro stabilized in elevation
Gen II IR camera
Daylight Color TV Camera
Laser Range Finder
Back up fiber optic sight for manual aiming
Commander sight 6 episcopes
Panoramic stabilized day/night (option) or Panoramic Thermal Imager (option)
Ballistic computation Full solution on the move
Dynamic tilt and meteo sensors
Manual back up Aiming and firing from inside
Gunner control panel Color LCD 12"
Commander control panel Color LCD 12" (option)

Protection

Turret frame
Basic environmental all around, with 7.62 ball roof, interface up to Standard NATO 4569 lev.III (option) with add-on kit

Turret Accessibility

Through a dedicated hatch:
Reloading, moving the turret and the gun in manual mode. Patented solution

Weight

Dry 1400 KG
Combat according to configuration and level protection

Controls

Traverse arc N x 360°
Elevation arc -10°÷+75°
Traverse speed 0.5/0.8 rad/s
Elevation speed 0.8 rad/s