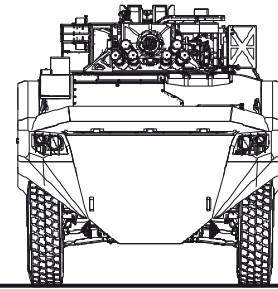
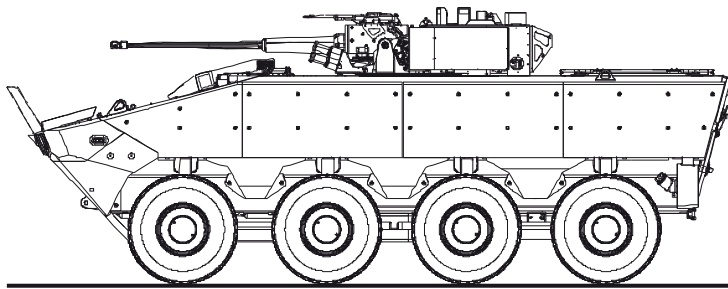


VBA



Dimensions (approx.)

| | |
|------------------|---------------|
| 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 (approx.)

| | |
|------------------------|-------------------|
| 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 | >105 km/h |
| (paved road) | 10 km/h |
| (in navigation) | |
| 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÷11m |
| Power to weight ratio | >21.5 HP/t |

Mobility

| | |
|-----------------|---|
| Engine | IVECO Cursor 13 6L turbocharged inter cooler |
| Fuel | Multifuel |
| Power | 368:412 kW (550 ÷ 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 in the turret floor
Reloading, aiming solution
Maintenance & repair

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