The ARISGATOR A2\textsuperscript{+} is an amphibious vehicle that can navigate in open sea up to Beaufort wind scale 3. The vehicle is based on the M113A2\textsuperscript{+}. All added kit parts are made of light alloy identical to the basic M113 hull.

**Power pack**

Detroit Diesel 6V53 Turbo engine model 5063-5396, 265hp-275hp

Allison TX100-1A transmission

**Differential**

brake bands with extra cooling

**Reinforced U-joints and drive shafts**

to cope with increased 70 hp engine output

**Final drive**

gear ratio change 3.929 to 4.75 for increased acceleration and brake force

**Improved cooling, engine compartment**

reversed airflow (negative pressure) increased radiator capacity separate expansion tank

**External fuel tanks**

improved survivability of crew increased internal storage space
The Arisgator M113A2+ has been fully qualified and certified by the IT.MoD in compliance with the landing operation requirements.

The amphibious kit enables the vehicle to safely operate in ship-to-shore operations as well as in rivers and lakes. It is a cost-effective solution that provides the Military Forces a reliable armored amphibious landing vehicle.

- Two rear sterns with incorporated fuel tanks
- A propulsion system with hydraulic steered propellers
- Side stabilizers to increase floatability and stability

A shaped front bow increases floatability and reduces hydrodynamic.

- Engine air-intake which can be closed during sea operations
- A modified engine breathing and cooling system, capable of running in water.
Power Pack (A2⁺)
- Improved acceleration (>15%)
- Improved speed on grade
- Increased engine power
- Heavy duty transmission (TX100-1A)

Cooling system
- Draws in ambient air through the radiator to provide increased cooling efficiency for both engine and transmission.
- Allows the vehicle to operate at full load at higher ambient temperatures.
- Provides a negative pressure in the engine compartment which reduces the possibility of exhaust fumes leaking into the crew compartment.
- Reduces oil film and dust build-up on the radiator core.

Suspension system
- Improved torsion bars and shock absorbers
- Increased ground clearance of 43 cm
GENERAL FEATURES

DIMENSIONS
Length (including bow and fuel tank) : ................................................................. 715.3 cm
Width : ...................................................................................................................... 295.7 cm
Height : ..................................................................................................................... 241.4 cm
Ground clearance : ................................................................................................. 43.00 cm

WEIGHTS
GVW - Combat weight (on terrain) : ................................................................. 13,100 kg
Running VW : ....................................................................................................... 12,100 kg
Ground pressure (maximum) : ........................................................................ 53,84 kPa

PERFORMANCE
Max speed on ground : .............................................................................. 55 km/h
Land range (@ 50 km/h) : ................................................................................. 410 km
Front angle grade ability : ................................................................................. 60%
Side angle grade ability : ................................................................................... 30%
Max speed in water : ......................................................................................... Approx. 6 kt
Cruise speed in water : ...................................................................................... Approx. 4,5 kt
Navigation autonomy (@ 4,5 kt) : ................................................................. 20 hours
Power to GVW ratio (on ground) : ................................................................. 18.9 hp/t
Power to GVW ratio (on water) : ................................................................. 20.7 hp/t

CAPACITY
Cooling fluid : ...................................................................................................... 45 liter
Oil :
- engine .................................................................................................................... 17 liter
- transmission ......................................................................................................... 15 liter
- differential ........................................................................................................... 19 liter
- transfer gear case ................................................................................................ 2.4 liter
- final drive ........................................................................................................... 0.24 liter/ea
- cooling fan ........................................................................................................... 0.24 liter
Hydraulic oil : ramp system .................................................................................. 1.9 liter
Fuel : ....................................................................................................................... 370 liter