

A R M O U R E D S E N S O R V E H I C L E

A highly mobile armoured sensor vehicle for artillery fire control and detection of targets both in the air and on the surface.

The spacious command room of the vehicle provides 4 operator consoles. The driver and vehicle commander are seated in front of the command room.

A 40 kW auxiliary power unit (APU) delivers the extra electrical power required. The system operates under extreme climatic conditions with highest stability and is easily and quickly deployable.



PIRANHA III C 10x10

A GENERAL DYNAMICS COMPANY

MOWAG
PROTECTED MOBILITY



PIRANHA IIIC 10x10

GENERAL STATISTICS

Weights

| | |
|----------------------|--------|
| Ready for operation: | 19.0 t |
| Payload: | 4.0 t |
| Total combat weight: | 23.0 t |

Dimensions

| | |
|---------------------|----------------------|
| Overall length: | 9.60 m |
| Overall height: | 3.82 m |
| Overall width: | 2.60 m |
| Internal volume: | 14.00 m ³ |
| Ground clearance: | 0.45 m |
| Angle of approach: | 35° |
| Angle of departure: | 30° |
| Number of seats: | 6 + 2 |

Performances with GVW

| | |
|--------------------------|--------------|
| Max. speed on roads: | 100 km/h |
| Creep speed: | below 3 km/h |
| Gradient: | 40% |
| Max. side slope: | 20% |
| Max. climbing ability: | 0.60 m |
| Fording depth: | 1.50 m |
| Trench crossing ability: | 2.00 m |
| Turning circle diameter: | 19.0 m |
| Range on roads: | 450 km |
| Voltage: | 24 V |
| Power-to-weight ratio: | 12.78 kW/t |

Engine

| | |
|--------------|-----------------|
| Type: | SCANIA DSJ9-48A |
| Fuel: | Diesel |
| Performance: | 294 kW (400 hp) |
| Torque: | 1600 Nm |

Transmission

| | |
|------------------|------------------|
| Type: | ZF ECOMAT 7HP600 |
| Transmission: | automatic |
| Number of gears: | 7 + 1 r. |

Driveline and Suspension

Transfer case: single speed gear
 Axles: front axle drives disengageable automatically locking differentials
 Wheels and tires:
 335/80 R20 XZL, with central tire inflation system (CTIS), run-flat cores
 Suspension:
 independent for each wheel;
 front: coil springs and control arms
 rear: torsion bars

Shock absorbers:
 hydraulic, on all wheels

Brakes:
 dual circuit, hydraulic, assisted by compressed air

Ballistic Protection

electrically welded high hardness armour steel plates
 Ballistic protection:
 against machine gun fire and artillery shell splinters; mine protection kit

Armament

Type of weapon: 7.62 mm machine gun on open ring mount
 Gun layering system: mechanical, with brake and locking device

Equipment

Auxiliary power unit (APU):
 40 kW capacity (stable frequency 35 kW)
 Airconditioning system:
 3 x 9.5 kW cooling capacity
 Winch: 8-ton pulling capacity
 NBC protection system:
 overpressure, 170 m³/hr
 Fire extinguishing system:
 for engine compartment
 Arctic heater kit:
 for operations as far as -40° Celsius
 Command and Control equipment:
 according to customer's requirements

Radar Mast

2-piece foldable mast, hydraulically powered. Extendable to two working positions: up to a height of 10 m or up to a height of 15 m; hydraulically clamped with permanent stability control.
 Erection and deployment procedure: fully automatic under full armour protection
 Deployment time: 3 minutes
 Dismantling time: 2 minutes

Radar

ERICSSON multi-mission searchradar GIRAFFE CD (Coastal Defence) for air and surface surveillance.
 In-built capabilities for fire control against sea targets and for threat evaluation and engagement planning against air targets.

