

# Patria

Heavy Mine Breaching Vehicle





Patria Weapon Systems Oy – in addition to more than 70 years of development of indirect weapon systems – also holds a substantial experience in modernization, modification, and maintenance of tracked armoured vehicles.

To meet Finnish Defence Force's demands, Patria has developed a Heavy Mine Breaching Vehicle (HMBV) on the Leopard 2 chassis

An interface for mechanical breaching devices at the front end of the chassis is jointly developed by Patria and Pearson Engineering Ltd. The interface system includes Electro-Hydraulic Power Pack built inside the crew compartment, external High Lift Adapter, and Hydraulic Emergency Jettison System.

The basic crew of the HMBV consists of the Commander, the Engineer, and the Driver. Additionally, there is one auxiliary crew post. The original 120 mm gun turret at the centre part of the chassis has been replaced by a non-rotating housing with modular armour that provides shelter for two crew members. The armoured housing also includes crew entrance hatches and observation equipment, smoke grenade launchers, and 12.7 mm Anti-Aircraft Machine Gun (AAMG).

Crew survivability is enhanced by roof-mounted seats. The crew compartment area features a secondary floor to reduce the effects of mine-induced damage towards the crew.

Other onboard systems include Lane Marking System (LMS), camera system, night-vision devices, and large equipment containers with full on-board camouflage system on top of the engine compartment.

The Vehicle holds potential for future upgrade with other breaching and self-defence systems such as Magnetic Signal Duplicator, Mine Rollers, and Remote-Controlled Weapon Station (RCWS).

#### Chassis

Leopard 2 A4, modified

#### Crew

3 persons: Commander, engineer, driver, one auxiliary position

#### Present range of breaching equipment

- Pearson Engineering Ltd's
- Full-Width Mine Plough
  - Hard-Surface Kit
  - Combat Dozer

#### Optional equipment

- Magnetic Signal Duplicator
- Mine Rollers
- Remote-Controlled Weapon Station

#### Cleared lane marking system

- Pearson Engineering Ltd's LMS
- 200 pcs marker poles

#### Self-defence

- 12.7 mm AAMG
- 16 pcs smoke grenade launchers

#### Weight

MLC 49...53, depending on equipment

#### Dimensions (carrier vehicle)

Length: . . . . . 7.92 m  
 Width: . . . . . 3.75 m  
 Height: . . . . . 2.88 m (with AAMG)



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