Patria

Patria AMV with Rheinmetall Defence Modular Turret System MTS LANCE



Patria AMV



More Mobility

- State-of-the-art design and engineering
- Fully independent hydropneumatic suspension
- Extremely strong wheel support for high speed off-road driving
- Large wheel size and CTIS for low ground pressure
- · High performance power pack

More Firepower

- Patria AMV has high payload and large internal volume for carrying weapon systems such as:
 - Small calibre weapon systems
 - Medium calibre weapon systems
 - Nemo or AMOS 120 mm mortar systems
 - · 90 and 105 mm turrets
 - · AT or AA missile systems

More Protection

- Modular ballistic protection against up to 30 mm APFSDS threats
- Mine protection tested and verified agaist 6 kg, 8 kg and 10 kg blast AT mines
- IED protection against blastfragmenting and EFP IEDs
- Active defence system against hand-held AT weapons
- · NBC protection

Patria

The 21st Century Armament Solution for IFVs

MTS LANCE

Alongside other battle-group elements, highly mobile infantry fighting vehicles with increased firepower will play a key role on the future battlefield, even within the forthcoming light and medium weight forces. Based on the proven two-man concept of the Rheinmetall Defence E 4 turret, an upgraded turret variant named MTS LANCE has been developed.

Stabilised Line of Sight

Due to the stabilisation of the IFV's main and secondary weapon, and thanks to its primary stablised, sighting and observation equipment, the vehicle can successfully engage static and dynamic ground and air targets both by day and night, even when the IFV is on the move.

Full Hunter-Killer Capability

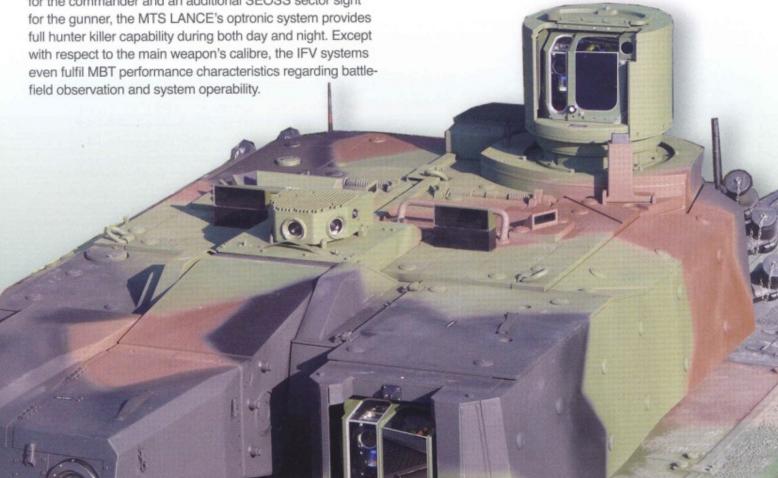
With its state of the art Rheinmetall Defence fire control system (SEOSS) and the stabilised Rheinmetall Defence automatic cannon MK 30-2/ABM as its main weapon, the MTS LANCE has been selected as the future armament of new IFV systems. Consisting of a SEOSS panoramic sight for the commander and an additional SEOSS sector sight for the gunner, the MTS LANCE's optronic system provides full hunter killer capability during both day and night. Except with respect to the main weapon's calibre, the IFV systems field observation and system operability.

ABM Capability and Video Tracking

The integration of the Rheinmetall Defence MK 30-2/ABM automatic cannon, which provides the capability to fire air-burst ammunition, enables the successful engagement of the entire target range. In addition, the MTS LANCE's fire control system will be equipped with a video tracking system. This will dramatically improve the engagement of small and fast moving targets such as combat helicopters and UAVs.

Modular Ballistic Protection

The MTS LANCE offers a modular ballistic protection system consisting of a basic turret structure of welded armour steel plates, add-on-armour elements and additional liner elements covering the turret's inner surface. The modular ballistic armour structure can be adapted to different customer requirements and offers further growth potential regarding the ballistic protection level.



Patria

Patria Land & Armament Oy

Autotehtaantie 6 P.O Box 186 FI-13101 Hämeenlinna FINLAND

Tel. +358 20 4691 land.armament@patria.fi www.patria.fi



Rheinmetall Landsysteme GmbH

Dr.-Hell-Strasse 24107 Kiel, Germany Tel +49 431 2185 – 01 Fax +49 431 2185 – 3278 www.rheinmetall-ls.com

AMV 8x8 Technical Specifications

Dimensions Length 7.7 m Height over hull 2.3 m Width 2.8 m Track width 2.5 m Weight 16 000 - 26 000 kg Performance Max. speed >100 km/h Climbing capacity 60 % Side slope, max. 30 % Obstacle 0.7 m Trench crossing 2.1 m Swimming 6 - 10 km/h Fording 2.0 m

Protection

Operating radius

Modular ballistic protection system against up to 30 mm APFSDS, blast-fragmenting and EFP IEDs, and mine protection kits against blast mines up to 10 kg TNT according to customer's requirements.

NBC, DAS and fire suppression systems.

Engine

Power output 405 kW
Torque output 2080 Nm

Transmission

Automatic 7+1 gears

Driveline

Driven axles All wheel drive

Tyres 14.00 R 20 with run flat devices

Brakes Hydraulically operated disc brakes with ABS

600 - 800 km

CTIS

Suspension

Suspension type Fully independent suspension with double wishbone on every

wheel station

Spring type Hydropneumatic elements, height adjustment optional

Rheinmetall Defence MTS LANCE weapon system: technical specification

Main weapon	Rheinmetall Defence MK 30-2/ABM automatic cannon
Secondary weapon	7.62 mm machine gun
Elevation	-10° to + 45°
Traverse	n x 360°
Ammunition supply	200 rounds in total available for cannon (two different types / next round, next type)
Fire control system	fully digital fire control system
Observation	Rheinmetall Defence n x 360° SEOSS panoramic sight (TI 3 rd gen., CCD camera, LRF)
Aiming	Rheinmetall Defence SEOSS sector sight (TI 3 rd gen., CCD camera, LRF)
Stabilisation	two axis primarily stabilised line of sight for observation and aiming
Ballistic protection level	according to customer's request, up to Level 5+ (STANAG 4569)
Options	additional anti-tank guided missile system