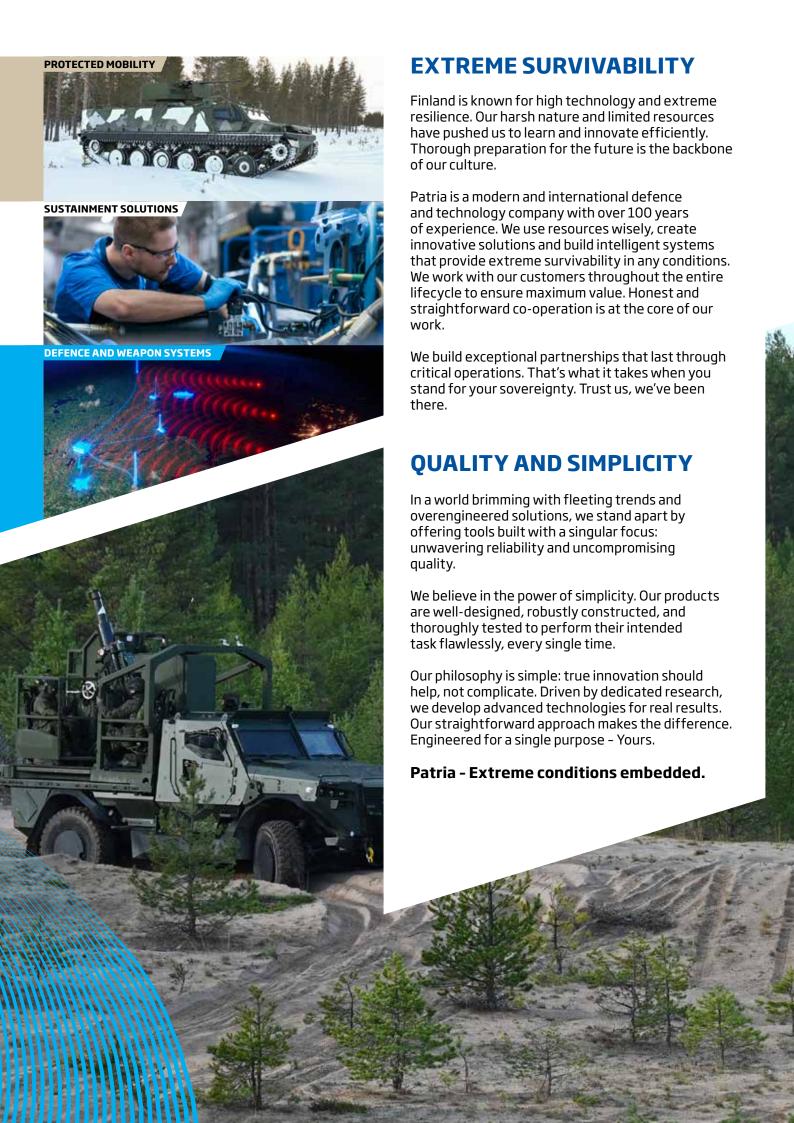
Patria

Patria TREMOS

The Reborn Traditional Mortar System with enhanced mobility





Patria TREMOS is a highly mobile evolution of the traditional mortar system, designed to meet the demands of modern and future warfare where rapid deployment, high mobility, and precision firepower are essential. Thanks to its modular integration architecture, Patria TREMOS can be seamlessly installed on a wide range of vehicle platforms. It supports the use of existing mortar tubes, ammunition, and ballistic tables, ensuring compatibility and ease of adoption.

The system offers a robust and cost-effective modernization path for smoothbore mortars, significantly enhancing their accuracy and responsiveness. Equipped with an Inertial Navigation Unit (INU) and Battle Management System (BMS) connectivity, Patria TREMOS ensures first-round precision. Its proven recoil mitigation technology enables integration on various vehicle types, including 4x4, 6x6, 8x8, and light tracked vehicles, without the need for ground support.

What sets Patria TREMOS apart is its exceptional shoot-and-scoot capability. The system can emplace and open fire within 60 seconds from patrol mode and within 30 seconds from known firing position and displace immediately after the last round, maximizing crew survivability and minimizing exposure. This fast in-and-out-of-action capability is a critical advantage in high-threat environments.

The modular design of Patria TREMOS optimizes space usage and simplifies integration across different platforms. The system can be quickly transferred between vehicles, and its crew stations can be equipped with seats, allowing operators to remain in position during movement–further reducing setup time. The efficient recoil system eliminates the need for ground support, enabling the fastest possible displacement.

A modular ammunition handling system ensures safe and efficient operation, while the system's simplicity allows it to be operated by just three crew members. By leveraging existing components and training, Patria TREMOS offers a cost-effective, scalable, and rapidly deployable fire support solution for modern infantry operations.



Technical description

Armament

- Mortar 120/81 mm smoothbore
- Muzzle loaded manual
- Recoiling system: hydro-pneumatic
- Manual laying system
- Traverse ± 185°
- Active elevation range +40° to +80°. Maintenance -3°
- Compatible with existing mortar tube and breech

Integration module and weapon (example)

- Weight 1600 3500 kg (configuration dependent)
- Crew: 3-4 (commander, gunner & 1-2 loaders)
- Seats for crew members
- Modular ammunition storage with integrated preparing table
- Integration module as per selected vehicle

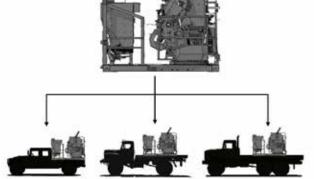
Performance

- Time to open fire:
 - < 30 sec from known position
- < 60 sec from patrol mode
- Time to scoot immediately
- Max. rate of fire 12 rds/min
- First three rounds 15 sec
- Range 7+ km (ammunition depend)

Equipment from Patria or GFE

- Weapon
- INU
- Weapon terminal

Easy integration on various vehicle types



Vehicle swap within minutes

Advantages of Patria TREMOS

- High Mobility: Designed for rapid deployment and movement, ideal for modern and future warfare scenarios.
- Modular Integration: Easily installed and transferred between a wide range of vehicle platforms, enhancing operational flexibility.
- Compatibility with Existing Systems: Supports current mortar tubes, ammunition, and ballistic tables, simplifying adoption.
- Cost-Effective Modernization: Offers an affordable upgrade path for smoothbore mortars with improved performance.
- Precision Firepower: Equipped with an Inertial Navigation Unit (INU) and Weapon terminal for firstround accuracy.
- Recoil Mitigation Technology: Enables use on various vehicle types without requiring ground support.
- Shoot-and-Scoot Capability: Can fire within 60 seconds from patrol mode and within 30 seconds of arrival to known firing position and displace immediately after firing, enhancing survivability.
- Platform Versatility: Compatible with 4x4, 6x6, 8x8, and light tracked vehicles.
- Efficient Crew Operation: Operable by just three crew members, reducing manpower requirements.
- Safe and Efficient Ammunition Handling: Modular handling system ensures operational safety and speed.

