

Patria TREMOS

The Reborn Traditional Mortar System with enhanced mobility



Protected Mobility and Defence Systems

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Through Life Capability



Battlefield and Critical Systems



EXTREME SURVIVABILITY

Finland is known for high technology and extreme resilience. The harsh nature and limited resources have pushed us to learn and innovate efficiently. Thorough preparation for the future is the backbone of our culture.

Patria has grown from its Finnish heritage to a modern and international defence and technology company with over 100 years of experience. We use resources wisely, create innovative solutions and build intelligent systems that provide extreme survivability in any condition. We work with our customers throughout the entire lifecycle to ensure maximum value. Honest and straightforward co-operation is at the core of our work.

We build exceptional partnerships that last through critical operations. That's what it takes when you stand for your sovereignty.

Trust us, we have been there.

SUPERIOR PERFORMANCE

Take your mission capabilities to new heights with Patria's future-proof vehicles, defence systems and armament.

At Patria we provide superior solutions to enhance operational capabilities in all conditions. Reliable performance, combined with the unique security of supply experience, makes us your trusted partner.

The best reward to us comes from those who have survived the toughest situations - thanks to the most combat-proven products.

We strengthen your mission capabilities in all conditions.

Patria - Extreme conditions embedded.



Patria TREMOS is a mobile version of traditional mortar responding to the need of current and future warfighting requiring enhanced mobility, firepower and accuracy. With its integration module it can be integrated to various types of vehicles. It can utilize existing mortar tube, ammunition and ballistic tables.

Patria TREMOS provides robust and cost-effective solution to modernize high firepower smoothbore mortars with enhanced accuracy. The system can be equipped with INU and BMS connection to ensure high level of accuracy from the very first shot. Proven recoil technology allows to integrate the system on different suitable light and heavy vehicles such as 4x4, 6x6, 8x8 and light tracked vehicles. Robust structure ensures reliability in all weather conditions.

Patria TREMOS expands the advantages of mobility and modern technology also to traditional mortars enabling rapid deployment, accurate first round and fast in-and-out of action capability enhancing the survivability to unprecedented level. It can open fire within 60 seconds after arriving to the firing position and receiving the fire mission and can leave immediately after the last round is fired. Patria TREMOS can carry all types of needed ammunition and can be used independently or as a part of a larger mobile firing unit. Proven technology of Patria TREMOS

provides infantry fire support on unseen level. The system combines cost-effectively high firepower and vital shoot-and-scoot capability.

Patria TREMOS has modular structure that optimizes the available space, makes the system fast and easy to integrate and move from one vehicle to another. Crew positions can be equipped with seats allowing the crew to remain in operating positions during vehicle movement and reducing the emplacement time. Efficient recoil system eliminates the need of ground support which also enables fastest possible displacement of the system. Modular solution for storing and preparing the ammunition makes the system safe to use. Patria TREMOS can be operated by only three persons. It can utilize existing mortar tube, ammunition and ballistic tables which makes it even easier to train and operate.



Technical description

Armament

- Mortar 120/81 mm smoothbore
- Muzzle loaded - manual
- Recoil system: hydro-pneumatic
- Manual laying system
- Traverse $\pm 185^\circ$
- Active elevation range $+40^\circ$ to $+80^\circ$; maintenance -3°
- Compatible with existing mortar tube and breech

Integration module and weapon (example)

- Weight 2800 kg
- Crew size: 3-4 (commander, gunner & 1-2 loaders)
- Seats for crew members
- Integration to vehicle: TWIST-lock (for example)
- Modular ammunition storage

Performance

- Time to open fire < 60 sec
- Time to scoot immediate
- Max. rate of fire 12-15 rds/min
- First 3 rounds in 15 sec
- Range 7+ km (ammunition dependent)

Options

- INU (also GFE)
- Patria weapon
- Weapon terminal
- Integration module as per selected vehicle

Advantages of Patria TREMOS

- Robust and cost-effective solution to modernize traditional mortars
- Fast opening of fire and immediate leaving of firing position
- Rapid emplacement and displacement - increased survivability
- Recoil system enables integration to almost any type of vehicle
- Capability to move system quickly from platform-to-platform
- Simple structure ensures safe use at night and day in all weather conditions
- Crew can remain at operating positions during vehicle movement
- Capability to store, transport and prepare ammunition
- Modular structure to optimize the available space
- Can utilize existing weapon, ammunition and ballistic tables
- Can be equipped with INU and BMS connection



Patria

When if is not an option.

www.patriagroup.com