

Patria NEMO

120 mm turreted mortar system with next-generation capabilities



DEFENCE AND WEAPON SYSTEMS

PROTECTED MOBILITY



SUSTAINMENT SOLUTIONS



DEFENCE AND WEAPON SYSTEMS



EXTREME SURVIVABILITY

Finland is known for high technology and extreme resilience. Our 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 is 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 conditions. 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've been there.

QUALITY AND SIMPLICITY

In a world brimming with fleeting trends and overengineered solutions, we stand apart by offering tools built with a singular focus: unwavering reliability and uncompromising quality.

We believe in the power of simplicity. Our products are well-designed, robustly constructed, and thoroughly tested to perform their intended task flawlessly, every single time.

Our philosophy is simple: true innovation should help, not complicate. Driven by dedicated research, we develop advanced technologies for real results. Our straightforward approach makes the difference. Engineered for a single purpose - Yours.

Patria - Extreme conditions embedded.



Patria NEMO is a turreted, remote-controlled 120 mm mortar system for the needs of modern warfare and crisis management, which call for mobility, protection and accuracy. Engineered by Patria, a top-tier industry expert, the lightweight system offers multi-platform compatibility and enables rapid and accurate fire support.

Turreted, remote-controlled 120 mm mortar system consists of weapon, loading device, turret, fire control system and ammunition storage, and is fully operational with a platform and ammunition. Its proven weapon technology is based on Patria's over 90 years of experience with 120 mm mortars.

Patria NEMO is a versatile system designed for multiple purposes, including self-defence, thanks to its ability to deliver both indirect and direct fire. One of its most renowned features is the MRSI (Multiple Rounds Simultaneous Impact) capability, and now it also offers MTSI (Multiple Targets Simultaneous Impact). This advanced function allows up to five rounds to be fired at separate targets simultaneously – even on the move. Additionally, the system can automatically spread the rounds into different patterns at the target area, such as a circle, rectangle, or line. Combining exceptional firepower, rapid deployment, and superior crew safety, Patria NEMO delivers all these advantages in one seamlessly integrated solution.

Comprehensive fire control by sensor-to-shooter operations

Patria's indirect fire system enables the highest possible readiness for battle and crisis management. Thanks to its network of sensors and situational awareness, Patria's fire control system enables sensor-to-shooter operations.

A forward observer system is used for identifying the target and for acquiring a full view of the situation on the battlefield. The fire control system can provide plans for fire support and fire missions, which are transmitted via tactical data network to the C2 systems. Engagement decisions are made at the fire direction centre, and the NEMO units execute the fire missions – right on target.

Patria's fire support system typically consists of:

- weapon(s)
- vehicle
- systems with integrated support functions
 - tactical weather services
 - fire control system
 - communication systems
 - forward observer functions.

Setting new standards for mortar mobility, protection and firepower both on land and sea

As a lightweight, remote-controlled mortar system, Patria NEMO is an ideal choice for both mechanised units and fast-moving naval fleets. Therefore, it complements Patria's proven 120 mm mortar offering.

The turret can be integrated on various platforms:

- 8x8 infantry fighting vehicles
- tracked armoured vehicles
- 6x6 armoured personnel carriers
- 20 ft container **Patria NEMO Container**
- patrol and coastal vessels **Patria NEMO Navy**

Patria NEMO unlocks the full potential of modern mortar systems. Designed for both land and sea operations, it delivers mobility, protection, and firepower while seamlessly integrating with highly mobile units. At last, joint land and sea operations are a reality.



Technical specifications

Turret	remote controlled
Weight	1900 kg
Traverse	360°
Elevation range	-3° to 85°
Laying system	electrical, manual back-up
Crew	2 to 3 personnel
Ammunition on-board	platform dependent; 50 to 60 rds

Armament

Barrel calibre	120 mm smoothbore
Barrel length	3000 mm
Loading system	automatic, manual back-up
Recoil system	hydro-pneumatic
Secondary armament	integrated RWS, smoke launchers

Performance

Time to open fire	<25 sec
Time to scoot	immediate (Fire-On-the-Move)
Maximum rate of fire	10 rds/min
Sustained rate of fire	6 rds/min
First 3 rounds	15 sec
Range	10+ km (ammo dependent)
MRSI/MTSI	up to 5 rounds; range 1,0 to 6,5 km

Ammunition	All smoothbore mortar ammunition
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- Compact, mobile, turreted and remote-controlled mortar system
- High rate of fire
- Excellent crew protection
- Indirect, direct and MRSI/MTSI capabilities with direct lay functionality
- Network-centric warfare management
- Fire-On-the-Move capability
- Rapid deployment
- Modular ballistic protection against infantry weapons, splinters and IEDs
- NBC and muzzle blast protection
- Reduced carrier stresses
- Large on-board ammunition supply
- Compatible with all standard 120 mm smoothbore ammunition as well as smart guided ammunition
- Full 360° traverse



Patria

When if is not an option.

www.patriagroup.com