

BOXER 120 mm NEMO Mortar

The mission changes – so does BOXER



Superior firepower and outstanding mobility are essential in asserting oneself in high-intensity conflicts and offer the possibility for situation-specific escalation and de-escalation in all other deployment scenarios. The BOXER 120 mm NEMO Mortar achieves this assertiveness through the firepower of the mortar itself in combination with the high mobility and high protection level of the BOXER.

The turreted compact and flexible Patria NEMO 120 mm breech-loading mortar system enables effective 360° fire upon ground targets while on the move. Direct and indirect modes of fire are available with this mortar system. A semi-automatic loading system enables a smooth and safe loading operation.

The turreted mortar system integrated into the BOXER Mission Module protects the crew from threats and weather. Furthermore, the mortar system, its ammunition, equipment and onboard tooling are stowed under protection, leaving space to stow crew equipment as well. An integrated remote controlled weapon station offers active self-protection at close ranges.

The modular design of the BOXER allows flexible adaption to future military tasks or changing requirements thanks to its common Drive Module and large number of specific, rapidly interchangeable Mission Modules. In addition to high flexibility and mobility, the BOXER 120 mm mortar provides its crew with exceptional survivability and superior protection from mines, IEDs and ballistic threats.



Pictures show Prototype configuration, not series configuration

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Product data

Key figures

Maximum speed	> 100 km/h
Engine capacity (ISO)	up to 600 kW (816 hp)
Engine type	MTU V8 199TE20/21
Range	> 750 km
Electrical system	24 V DC, up to 540 A
Max. gross vehicle weight	up to 38.5 t
Max. straight gradient	60 %
Max. slope gradient	30 %
Trench crossing	2.00 m
Step climbing ability	0.80 m
Turning radius	7.50 m (skid steering)
Length	7.90 m
Width	2.99 m
Height (turret roof)	3.50 m
Ground clearance	0.50 m
Protected volume	14 m ³

Exemplary Options

Remote Controlled Weapon Station with Smoke-Grenade Launcher
Modular protection kits (ballistic, bomblets, IEDs, mine, RPG)
Active Protection System
360° Situational Awareness System
Electronic Countermeasure (ECM)

Characteristics

Crew:	5 (driver, commander, RCWS operator, loader, assistant loader)
Compact and flexible Patria NEMO 120 mm breech-loading smooth-bore mortar system	
Enables fire on the move	
Time to fire:	immediate
Enables direct and indirect modes of fire	
Time to open fire:	< 30 sec
First 3 rounds:	15 sec
Combat distance:	> 10,000 m
Aiming angle:	360°, +/- 180° (azimuthal) -3° to +85° (in elevation)
Max. rate of fire:	10 rounds/minute
Rate of fire:	6 rounds/minute (sustained)
Barrel length:	3.00 m
Loading system:	semi-automatic loader
Ammunition:	> 40 rounds stored in the BOXER Mission Module

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