

BOXER Mortar

The mission changes – so does BOXER



The 120mm mortar capability, combined with BOXER's battle-proven design provides a valuable opportunity for a quick and easy operation and is ideal for "shoot and scoot". The BOXER uses a 120 mm mortar weapon system (MWS120) to provide an indirect fire capability for BOXER crews. The MWS120 is semi-automatic, ensuring minimal mechanical movements and therefore safer performance and higher rate of fire.

The system can fire high explosive, smoke and illumination ammunition, with a fully-automated aiming sequence. The system is also compact, providing increased storage space for ammunition in the vehicle.

The BOXER 120mm mortar variant is versatile, allowing third-party barrels to be integrated, as well as ballistic computers for fully-autonomous operations. The MWS120 is also equipped with back-up functionality in the event of any system failure to ensure sustained and credible power.

For training, the MWS120 can also be fitted with a sub-caliber barrel allowing the usage of 81 mm ammunition.

The BOXER Mortar has a high precision in azimuth and elevation together with a recoil system that provides low and adaptable recoil force to the vehicle.

All this makes the BOXER Mortar a compact solution with high focus on ergonomic layout.

The BOXER Mortar provides its crew with extraordinary survivability and protection against mines (AT, AP), IEDs, corresponding ballistic threats (incl. artillery fragments), NBC threats and detection (radar, noise, solar loading) in addition to its superior firepower.



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Product data

Key figures

Maximum speed	> 100 km/h
Engine capacity (ISO)	up to 600kW (816hp)
Engine type	MTU V8 199TE20/21
Range	> 1,000 km
Electrical system	24V 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	7.93 m
Width	2.99 m
Height (hull roof)	2.92 m
Ground clearance	0.50 m
Protected volume	17.5 m ³

Exemplary Options

Modular protection kits (ballistic, bomblets, IEDs, mine, RPG)
360° Situational Awareness System
Electronic Countermeasure (ECM)
RCWS for self defence
Optronic sight system for commander to avoid Opening of hatch
Multispectral Drivers Assistance System for day and night

Characteristics

Crew: 4 (driver, commander, gunner and mortar operator)
One seat in rear of vehicle for mortar operator
Stowage of 98 rounds (81 mm) or circa 40 rounds (120 mm)
Firing software integrated into vehicle BMS for Commander control
+/- 180° rear firing arc
Rapid fire 'shoot and scoot', 15-18 rounds/ min
Into action in < 30 seconds
Out of action in < 20 seconds
Range 8-12 km (pending ammunition)
Semi automatic system with manual loading
Backup system for manual operation
Barrel can be dismounted by crew in 60 seconds (ground mounted back up firing)
Integrated to FCS – automatic aiming
Intuitive touch screen with bulls eye principle for aiming

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