

The New Generation of Multi-Role Armoured Vehicles



BOXER - The Perfect Solution for a Successful Mission



The BOXER 8x8 vehicle is the result of balancing the key military requirements of Protection, Mobility, Payload and ired by the German and Dutch Armies. It has state of the art mine, ballistic and NBC protection in its

The mobility requirements are qualified for the vehicle at its maximum combat weight even under the most extreme environmental conditions. The basic vehicle has the capacity for a payload of 8 tonnes enabling mission equipment and weapon station to be integrated without compromising the mobility or protection performance of the vehicle. The BOXER system is designed with a 3 tonnes weight reserve thus providing growth potential and the ability to cope with future emerging military roles. This Growth Potential is enhanced by the modular concept of the vehicle, which allows for system upgrades such as additional armour against future threats or for new mission requirements.

Advanced Protection Solutions - Unrivalled Level of Survivability

The vehicle provides state of the art protection against mines and has adaptable modular armour to defeat the current and future threats that will develop during the life is ensured by the capability of being deployed by road, of the vehicle.

Mobility

Excellent on and off-road mobility is achieved by using permanent all-wheel drive, modern all independent wheel suspension, Central Tyre Inflation System and a high

performance Power-Pack with automatic gearbox. The vehicle is able to achieve full performance under extreme environmental and difficult terrain conditions. Rapid Strategic Mobility in a combat-ready configuration train, sea or air.

The 8 tonnes payload allows for the integration of mission equipment and weapon station without compromising the vehicle's mobility and protection.

Crew Survivability - without Compromise

Advanced Protection Solutions

The unique protection of BOXER is achieved by the multi-layer steel structure of the vehicle combined with modular protection panels that utilize state of the art material technology.

The complete vehicle system design is optimised to achieve an unsurpassed level of protection and survivability levels for the crew and vehicle systems. A high degree of operational mobility is maintained even within an NBC environment as an AirCon/NBC overpressure system is fitted as standard.

BOXER sets new standards in protection and survivability for wheeled vehicles for a wide range of threats:

- AP and large AT mines under wheel, chassis or side attack.
- Heavy machine gun horizontal and elevations for the full 360°.
- Artillery fragments, complete coverage against nearby explosions.

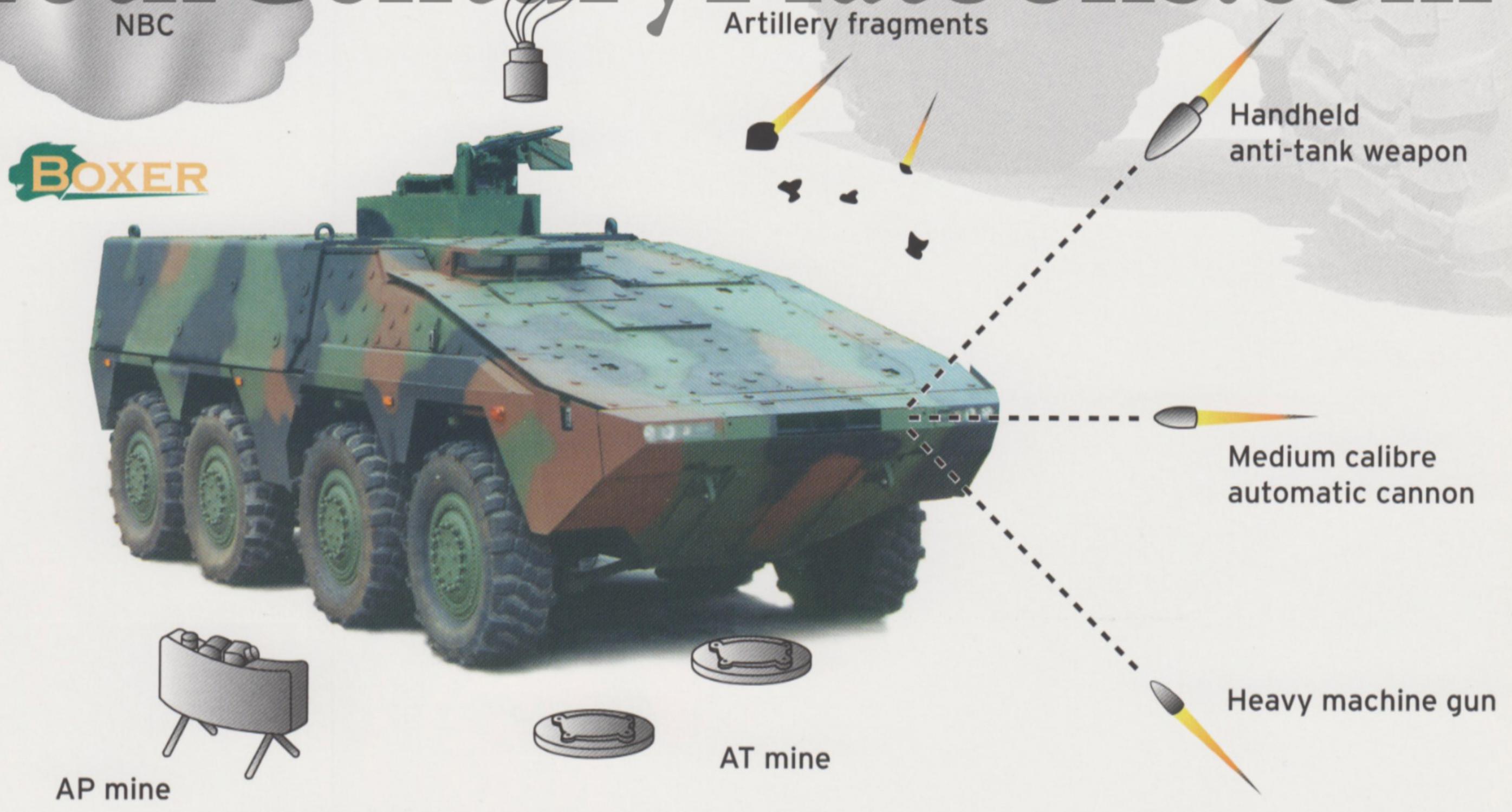
- Bomblets.
- Medium calibre automatic weapons of a very high threat level over a wide frontal arc.
- Optional: protection against RPG7, TRMP 6/7.

The BOXER armour system has a superior multi-hit sustainability and a complete internal liner to protect the crew against secondary fragments.

The mine protection and running gear systems of BOXER are designed to ensure residual mobility after a mine attack. The vehicle is also specially hardened to survive a medium distance tactical nuclear explosion.

To enhance protection and survivability the stealth design leads to low acoustic, infrared and radar signatures ensuring that BOXER is hard to locate.

The growth potential contained within the combat weight, allows for protection solutions to meet evolving



The Mission Changes so Does BOXER

Modularity

The BOXER's unique concept of mounting interchangeable mission modules onto a common drive module provides the baseline for further vehicle versions or modifications.

Growth Potential

The integral growth potential of 3 tonnes enables systems to be upgraded during the vehicle's in-service life to cope with future emerging military roles, or changing requirements without degrading the mobility characteristics.

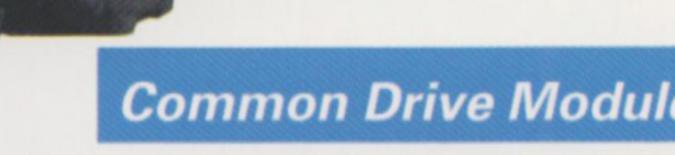
BOXER's modular characteristics are

- Self-contained; stand-alone capability.
- Highly standardized design.
- Easy to maintain, repair and to interchange even under operational conditions.
- Individually configurable by the customer.
- Growth potential to cope with additional future requirements.



Ambulance, Cargo and Battle Damage Repair vehicles Within all of these versions a high degree of standardization has been achieved thus optimising in-service support, spare provisioning, training, technical publications and Support and Test Equipment.

The common vehicle platform concept allows cost effective development of new versions or variants.

















Superior Efficiency, Versatility and Cost Effectiveness

Low life-cycle costs

High reliability, ease of maintenance and supportability for all vehicle components are outstanding features of the BOXER. This is achieved by advanced Vetronics, built-in diagnosis systems, and CAN bus electronics as well as proven series components and materials.

The implementation of internationally approved standards and specifications across the complete logistics spectrum are the key to BOXER's remarkable cost effectiveness.

Interoperability/C3I

Common interfaces at systems and subsystem levels enable the customer to adapt his own individual network-centric command, control and communications systems.

A sophisticated C3I workstation supports multi-national operations. Its essential functions are:

- Digital exchange of Information (images, text, etc.).
- Real-time display and updating for situational awareness.



The highly mobile BOXER offers unique capabilities for extended out-of-area missions under difficult conditions: under armour It carries a fully equipped infantry crew. Large doors allow for rapid exit/access of the crew while ergonomic seats minimize fatigue. Inter-operability is supported by user-friendly C3I displays.







Product Data

Multi-Role Armoured Vehicle



Characteristics

Crew	max. 11
Protected volume	14 m ³
Payload	8t+3t
Basic weight	25 t
Combat weight (including growth potential)	33 t
Max. Vehicle weight, including (3 t) growth potenti	al max. 36 t

Protection

AT blast/EFP and AP mines (including side attack)
All-around direct firing (heavy machine gun, medium calibre automatic cannon, handheld anti-tank weapon)

Bomblets/artillery fragments

Signature reduction (Radar, IR acoustic)

NBC protection (NBC overpressure system, heat, blast,

NEMP, TREE)

RPG 7 or TRMP 6/7 (optional)



Ambulance

Performance (33 t vehicle)

Maximum speed 103 km/h Maximum reverse speed 103 km/h Air-conditioning for STANAG 2895 A1/B3 environment

iviaximum reverse speed	30 Kmyn	Alf-conditioning for 3 land 4895 All B3 environment
Minimum speed	3 km/h	(tropical operation)
Engine capacity (ISO)	530 kW	Heating system for arctic operation down to -40 °C
Power-to-weight ratio at 33 t	16.1 kW/t	Fire extinguishing system
Range	1,050 km	NBC overpressure system
Allowable straight/slope gradients	60 %/30 %	Ballistic/mine protection against
Trench-crossing	2 m	AT blast / EFP and AP mines (including side attack)
Step climbing ability	0.8 m	All-around direct and multi-hit heavy machine gun and
Turning circle	15 m	medium calibre automatic cannon
Length	7.93 m	Artillery fragments
Width	2.99 m	Secondary fragments
Fording depth	1.5 m	CAN-Bus system with integrated test equipment,
Height (hull roof)	2.37 m	prepared for C3I workstation integration
Ground clearance	0.50 m	GPS
Track	2.58 m	Central Tyre Inflation System

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