

BOXER CRV.

FIGHT. SURVIVE. WIN.



 **RHEINMETALL**
DEFENCE



THE MODERN BATTLEFIELD IS GROWING IN COMPLEXITY AND LETHALITY.

NEW THREATS. NEW MISSIONS. NEW SOLUTIONS.

Current operations are inherently unpredictable, a trend that will continue. Commanders of today face tasks ranging from intervention missions to high-intensity conventional battles. Moreover, operations are increasingly global in nature, requiring extended logistics support within a constrained budget. The challenge for a modern army is to build a capability with the enduring characteristics of protection, mobility and lethality, while moving towards a force that provides the decision superiority and rapid overmatch needed on the modern battlefield.







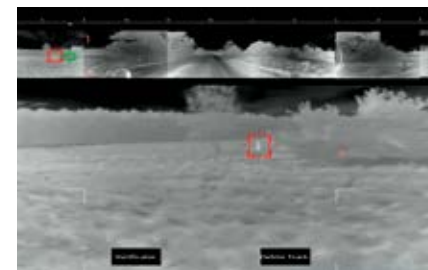
DECISION SUPERIORITY. RAPID OVERMATCH.

DELIVERING THE COMBAT EDGE.

In a network-enabled warfare environment, digital communication and a constant flow of information are key. To identify and react appropriately to opponents both day and night, the commander, gunner and the entire crew require accurate situational awareness at all times. This way, they can quickly engage emerging threats with the vehicle's primary or secondary armament and make informed decisions as to when to mount or dismount.

The Boxer CRV offers a whole host of systems that enable comprehensive surveillance and monitoring, even in highly complex scenarios:

- Exact orientation of the weapon stations: Stabilised Electro Optical Sight System (SEOSS): a stabilised digital TV and IR optic with integrated laser rangefinder and fire control unit for commander and gunner.
- 360 degree vision: The area surrounding the vehicle can be monitored on displays day and night from the safety of the fighting compartment.
- Automatic target recognition and tracking: Enhances the hunter-killer and killer-killer capability, reducing reaction times to a minimum.
- Instantaneous detection of specific threats: integration of laser warning sensors and Rheinmetall's Acoustic Shooter Localisation System (ASLS).
- Reliable communication: command and control system and intercom for tactical communication.







OPERATIONAL FLEXIBILITY.

MEETING THE DEMANDS OF THE UNPREDICTABLE BATTLEFIELD.

In a fiscally constrained environment it is harder to achieve the operational flexibility needed to meet the demands of an ever-changing battlefield. Yet the Boxer CRV achieves this. A modular approach makes it possible to upgrade specific mission-essential com-

ponents rather than the entire vehicle as well as reducing the logistics footprint. Training from both a maintainer and operator perspective is simplified and focuses more on the mission than the vehicle. This results in operational flexibility in a cost-effective manner.







FIGHT. SURVIVE. WIN.

THE HIGHEST PROTECTION IN ITS CLASS.

With the Boxer CRV, protection is not an afterthought. It is at the core of every vehicle Rheinmetall designs. We understand that the possession of highly lethal systems is no longer confined to conventional forces. Modern protection systems therefore have to be all encompassing and conform to the very highest standards. Combining signature reduction and multiple protection systems, the Boxer CRV's comprehensive survivability concept does exactly that. In addition to standard safety features such as decoupled seating, the vehicle is packed with supplementary protection systems, both active and passive:

- Ballistic armour: Protects against antitank weapons, medium-calibre ammunition, artillery shrapnel, IEDs and bomblets, while a spall liner in the vehicle interior serves as final line of defence.
- Mine and IED protection package: Here, the Boxer CRV offers the highest level of protection in its weight class.
- Optional Active Defence System: Providing protection primarily against rocket-propelled grenades and guided missiles, it is one of the most advanced and effective protection systems anywhere – and suitable for vehicles in practically every weight class.



Rheinmetall Landsysteme
ZTPBGA0530

SCHOTT
ESGL

ZTPBGA0530



DELIVERING THE COMBAT EDGE UNDER ALL BATTLEFIELD CONDITIONS.

A VERSATILE FAMILY OF VEHICLES.

Mission success is predicated on the ability to tailor the force to a rapidly evolving threat. The modular approach of the Boxer CRV achieves this. On the one hand it delivers extensive component commonality even in highly specialised variants: on the other it allows the precise tailoring of technology to specific missions and threats.

The training burden is therefore significantly reduced, leading to greater operational responsiveness. And when it comes to operating and supporting the vehicle, a Boxer CRV is always a Boxer CRV no matter how it is configured. One vehicle: many missions.





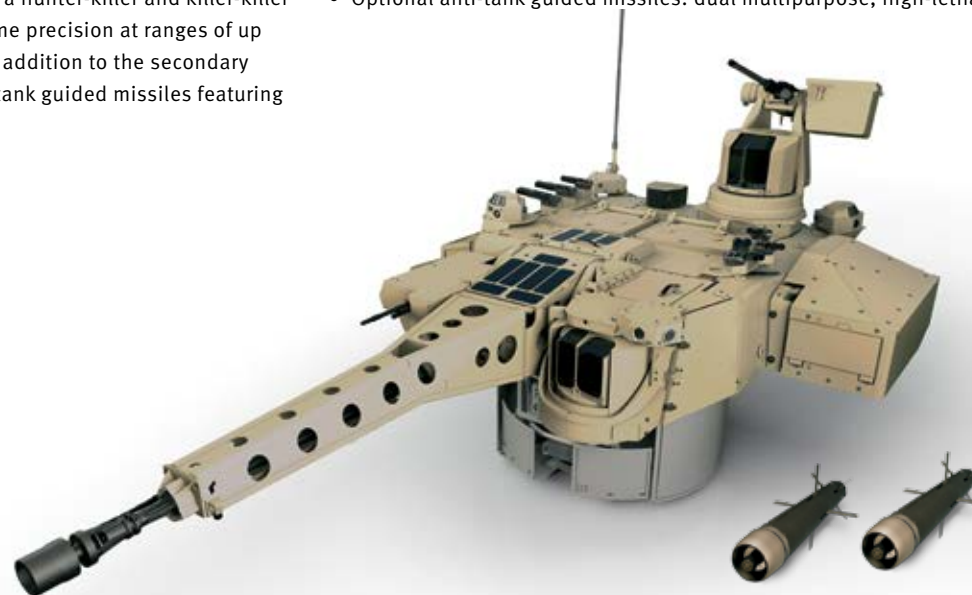


MODULARITY + SCALABILITY + LETHALITY =

DECISION SUPERIORITY. RAPID OVERTAKE.

The Boxer CRV is the epitome of a combat vehicle designed and built to provide the decision superiority and rapid overmatch required for success on the modern battlefield. Packing a tremendous punch, the Boxer CRV is armed and ready for a wide variety of combat situations. The automatic cannon can be augmented with a secondary weapon station linked to the main optics (Main Sensor Slaved Armament/MSSA with 360° view). This enables the vehicle commander and gunner to react flexibly to emerging battlefield threats, observing and engaging targets on their own, thus giving the Boxer CRV a hunter-killer and killer-killer capability. Targets can be engaged effectively and with extreme precision at ranges of up to 3,000 metres, even when the Boxer CRV is on the move. In addition to the secondary armament, the vehicle can be optionally equipped with anti-tank guided missiles featuring a maximum range of 4,000 metres.

- Main armament: a Lance turret with an externally powered, airburst ammunition-capable, 30mm or 35mm automatic cannon.
- Secondary armament: RMG 7.62 machine gun, featuring a high rate of fire and three barrels for automatic barrel switching.
- Optional anti-tank guided missiles: dual multipurpose, high-lethality Spike-LR.











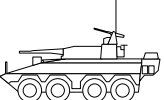








OPERATIONAL FLEXIBILITY AS A DESIGN DRIVER:

ONE VEHICLE. MULTIPLE MISSIONS.



The Boxer CRV satisfies the enduring requirements of protection, lethality and mobility, while providing the operational flexibility inherent in a design purpose-built for the integration of technologies required to achieve the decision superiority and vitality for successful battlefield outcomes. This is in the Boxer CRV's DNA. Combining massive firepower with exceptional protection, it features a futureproof modular design and the most advanced digital turret now on the market.

An investment in the Boxer CRV family of vehicles is also an investment in the future. The design offers ample scope for local industrial content and the flexibility to grow with the threat. When the task at hand involves the long-term support, continued development and cooperation with all stakeholders involved in the creation of land capability, Rheinmetall can point to over 125 years of experience.

<p>Reconnaissance Variant</p>	<p>Command And Control Variant</p>	<p>Surveillance Variant</p>	<p>Joint Fires Variant</p>
			
			
<ul style="list-style-type: none"> • LANCE 30/35mm turret with dual SPIKE-LR ATGM • Active Defence System • Independent remote controlled weapon • 4 dismounts (up to 8 dismounts possible) 	<ul style="list-style-type: none"> • LANCE 30/35mm turret with dual SPIKE-LR ATGM • Active Defence System • Independent remote controlled weapon • Full C4I situational awareness 	<ul style="list-style-type: none"> • LANCE 30/35mm turret with dual SPIKE-LR ATGM • Active Defence System • Independent remote controlled weapon • VINGTAQS surveillance system 	<ul style="list-style-type: none"> • LANCE 30/35mm turret with dual SPIKE-LR ATGM • Active Defence System • Independent remote controlled weapon • VINGTAQS joint fires system
<p>Ambulance Variant</p>	<p>Repair Variant</p>	<p>Armoured Recovery Vehicle</p>	
			
			
<ul style="list-style-type: none"> • Accommodates 3 casualties in lying position • 4 seated casualties + 1 in lying position • Active Defence System • Remote weapon station 	<ul style="list-style-type: none"> • 5t crane at 4m extension • Active Defence System • Remote weapon station 	<ul style="list-style-type: none"> • Recovery Variant • Active Defence System • Remote weapon station 	



THE OPERATIONAL EDGE.

THE INTEGRATION OF BEST-IN-CLASS SYSTEMS DELIVERS RAPID OVERMATCH.

1

Precise, highly effective firepower: the Lance turret system, featuring an externally driven, airburst ammunition-capable automatic cannon, fully digital fire control technology and electro-optical vision devices, all of which can be operated by the commander and gunner

3

Persistent reconnaissance and surveillance: a fully integrated 360° Situational Awareness System with laser warning sensors and Acoustic Shooter Locating System makes sure that the crew always knows what's going on around them, day and night

4

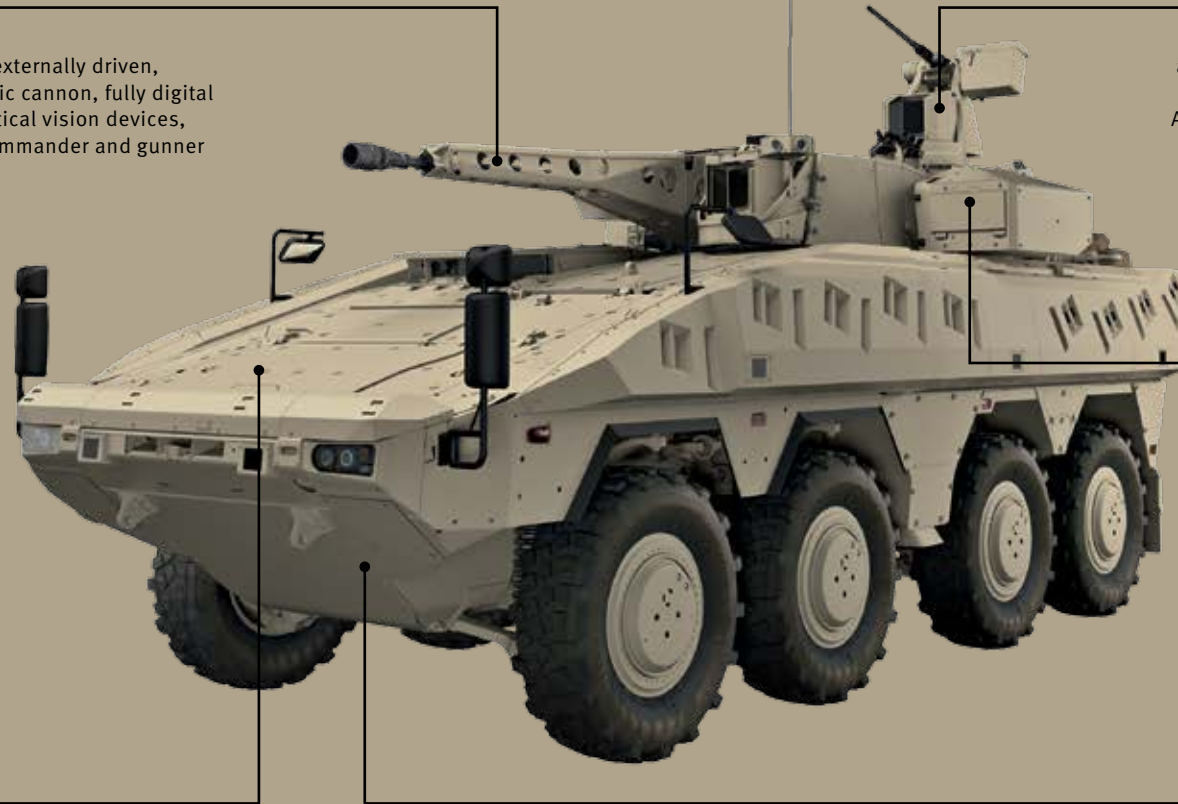
Flexible engagement: effective hunter-killer and killer-killer capability with digital networked sensors and fire control technology

2

Best-in-class survivability, including against light anti-tank weapons and guided missiles: the Active Defence System represents the cutting edge of active protection technology

5

Modular protection: tailorable architecture, with modular systems and a low-emission, multi-fuel engine in the front of the vehicle





WHEN THE BATTLEFIELD IS UNCERTAIN ...

THE BOXER CRV WILL ALWAYS DELIVER THE COMBAT EDGE.

An ideal combination of mobility, survivability and lethality, the modular Boxer CRV can be configured for a multitude of different combat and combat support roles. Leaving nothing

to chance, the vehicle is designed for maximum crew protection and comfort, coupled with a comprehensive suite of mission-specific sensors and effectors.

Dimensions	
Overall length	7.93m
Overall width (not incl. mirrors)	2.99m
Overall height (Recon variant)	3.3m
Ground clearance	0.5m
Power Pack	
Power Pack	quick change in <60min
Engine	720 hp MTU V8
Fuel	Diesel, AVTUR F34/35/63
Transmission	Allison Automatic
Performance	
Speed	100+km/h
Range	up to 1050 km
Gradeability at max GVW	60%
Side slope at max GVW	30%
Turning circle (radius)	8m

Medium Calibre Turret Features

- State-of-the-art two man turret
- Compartmentalised ammunition
- 30/35mm main gun with airburst capability
- Up to 200 main gun rounds
- 7.62mm co-ax machine gun
- Dual SPIKE-LR anti-tank guided missiles
- Independent commander's sight
- Independent remote controlled weapon
- Hunter-killer and killer-killer capability
- 360° situational awareness system (TV&TI)
- Laser warning system
- Acoustic shooter location system
- Automatic target recognition
- Automatic target tracking
- Rapid obscurant system (ROSY)
- Point and area non-lethal defence capability

Survivability

- Protection from landmines, EFP mines, IEDs, medium cannon, small arms and heavy MG ammunition
- Modular, upgradeable survivability system
- Active Defence System
- NBC filtration and protection system
- Nuclear and chemical agent detector

Boxer CRV Features

- Easy swap mission module in <60min
- Low signature design
- Independent suspension
- Advanced driver station
- High visibility driver's hatch

Auxiliary Systems

- Fire suppression system
- SOTAS Intercom system
- C4ISR system incl. HUMS and video logger
- Central tyre inflation system
- Air conditioning system
- GPS and INU system



FORCE PROTECTION

IS OUR MISSION.



Rheinmetall is a global technology enterprise dedicated to security and mobility. The Group's defence arm is one of the world's foremost designers and manufacturers of military systems and equipment. Its three divisions - Weapons and Ammunition, Electronic Solutions and Vehicle Systems - supply a comprehensive array of state-of-the-art products and

services. As Europe's leading land systems company, Rheinmetall Defence is a long standing partner of the armed forces and law enforcement agencies of NATO countries and their allies. The progressive acquisition of land systems companies and the establishment of new subsidiaries is transforming Rheinmetall into a global player.



Rheinmetall Defence Australia Pty Ltd

Level 15, 575 Bourke Street
Melbourne 3000 VIC

www.rheinmetall-defence.com

a joint program of

