

Bridge System

The mission changes – so does BOXER



BOXER Bridge System combines the capabilities of the assault Bridge System Leguan with the unique protection and mobility of the combat proven wheeled armoured vehicle BOXER. This combination is the prerequisite for enforcement in high-intense conflicts, the provision of emergency temporary infrastructure during natural disasters and ensures flexibility for future military requirements and scenarios.

BOXER Bridge System can be equipped with a one-piece 14 m Leguan bridge that can span over a 13 m gap in less than three minutes and handle Military Load Class (MLC) 80 or 100. There is also a 22 m bridge available to bridge 20 m gaps in less than six minutes and handle MLC 50. The 22 m bridge comes in two sections, which will slide forward horizontally when laying, to reduce signature and avoid a scissor system. A similar system is in use with Leopard 2 bridge layer "Leguan".

The fully automatic, electronically controlled Leguan bridge can be laid and rolled back on a wide range of terrains. The crew of two (driver, operator/commander) is highly protected in the Drive Module and the front section of the Mission Module. The operator can lay the bridge by using an operating element and a graphical user interface. The integrated programme for self-test ensures high reliability of the bridge system and informs the crew of unexpected issues.

In addition to high flexibility and mobility BOXER Bridge System provides its crew with extraordinary survivability and superior protection against mines (AT, AP), IEDs, highest ballistic threats (incl. artillery fragments), NBC threats and detection (radar, noise).



Bridge System

Product data

Key figures

Engine capacity (ISO)	up to 600 kW (816 hp)
Engine type	MTU V8 199TE20/21
Electrical system	24 V DC, up to 540 A
Max. gross vehicle weight	up to 39.5 t
Length	11.33 m
Width	2.99 m
Height (without bridge element)	3.10 m
Ground clearance	0.50 m

MLC 80/100 bridge element

Length	14.00 m
Width	4.01 m
Width (track)	1.55 m
Height	0.85 m
Laying time	< 3 min
Span	up to 13 m

MLC 50 bridge element

Length	22.00 m
Width	3.50 m
Width (track)	1.30 m
Height	0.80 m
Laying time	< 6 min
Span	up to 21 m

Characteristics

Crew	2 (driver, operator/commander)
Air conditioning and NBC-protection systems	
Fire extinguishing system in engine compartment	
Integrated programme for bridge self-test	
Bridge laying to the rear using rear-facing control station	
Commanders seat rotatable 180° to the rear	

Exemplary Options

Modular protection kits (ballistic, IEDs, mine)	
360° Situational Awareness System	
“Drive by wire” for Commander (Commander can take over and override controls from driver and manoeuvre the vehicle to the laydown point)	

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