

BOXER BRIDGE LAYER

Mission Module for fully automatic
laying of bridges

KNDS



/ BOXER bridge layer

The BOXER bridge layer combines the high on- and off-road mobility of the BOXER 8 x8 drive module with a bridge-laying mission module to launch bridges from both the LEGUAN and TEJU family.

The system automatically lays a two-piece 22 meter TEJU MLC50 bridge in less than six minutes, two one-piece 12 meter TEJU MLC50 bridges or a one-piece 14 meter LEGUAN MLC80/MLC100 bridge each in less than four minutes. With the 22 meter bridge, obstacles with a width of up to 21 meters, with the 12 meter bridge obstacles up to 11 meters and with the 14 meter bridge obstacles up to 13 meters wide can be bridged. Both bridges are developed according to international standards and are fully qualified. The 14 meter bridge is already in use in the armies of six nations and is being put into service in two more. It is fully interoperable between all user countries.





The system is designed to meet the most stringent military requirements in order to be able to lay mobile bridges from a protected vehicle during day and night operations under difficult terrain conditions. The crew is supported by a night-vision camera system with a laser range finder and an operating device with an interactive graphical user interface for operating the laying system, detecting faults, and fault localization. The laying process can be aborted, retracted, or continued at any time. The horizontal laying process with the smallest possible silhouette makes it more difficult to detect the system during the bridge laying process compared to the classic scissor bridge.

The BOXER bridge layer enables armored task forces to cross natural and man-made obstacles in the shortest possible time. In addition to military use, the BOXER bridge layer can also make a valuable contribution in civil disaster relief. For example, bridges destroyed by flood disasters or earthquakes can be replaced at short notice with the help of the BOXER bridge layer, enabling emergency and rescue forces to cross waterways.

Bridge Versions



22 meter bridge TEJU MLC50

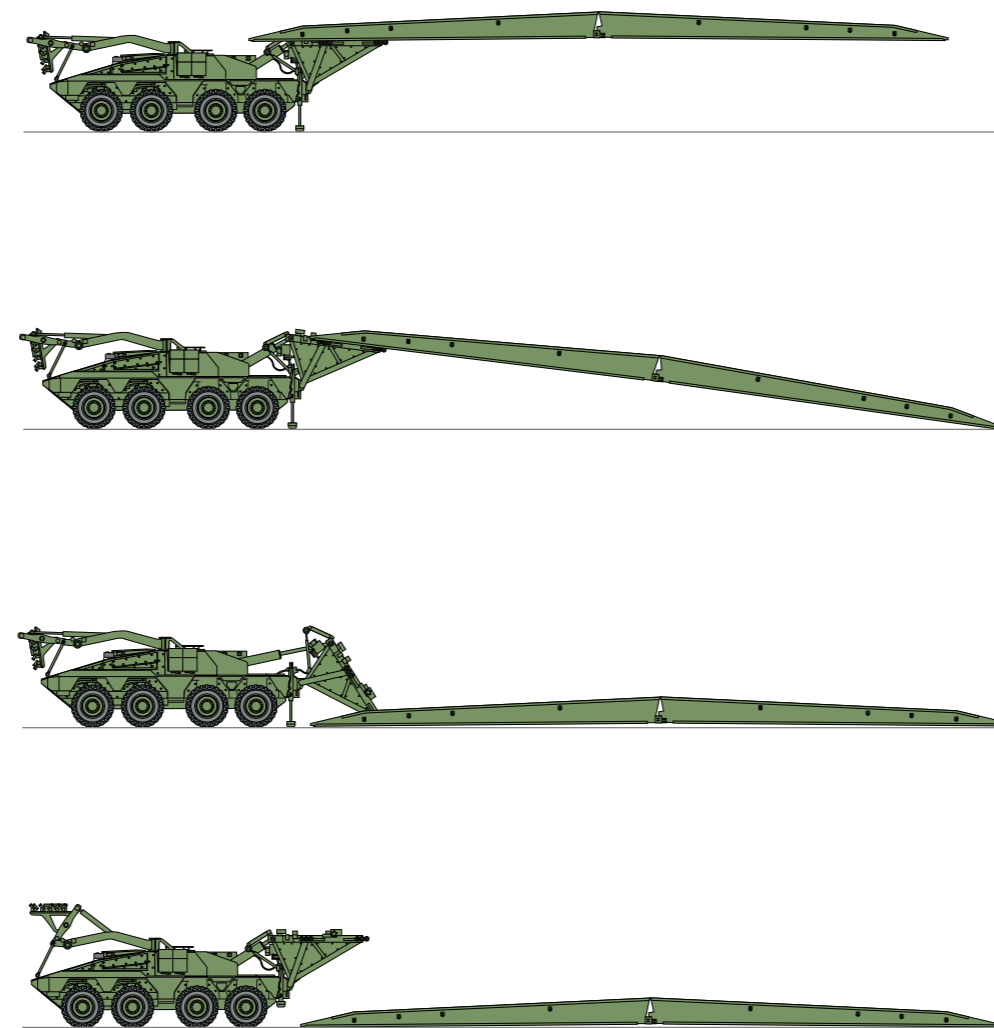
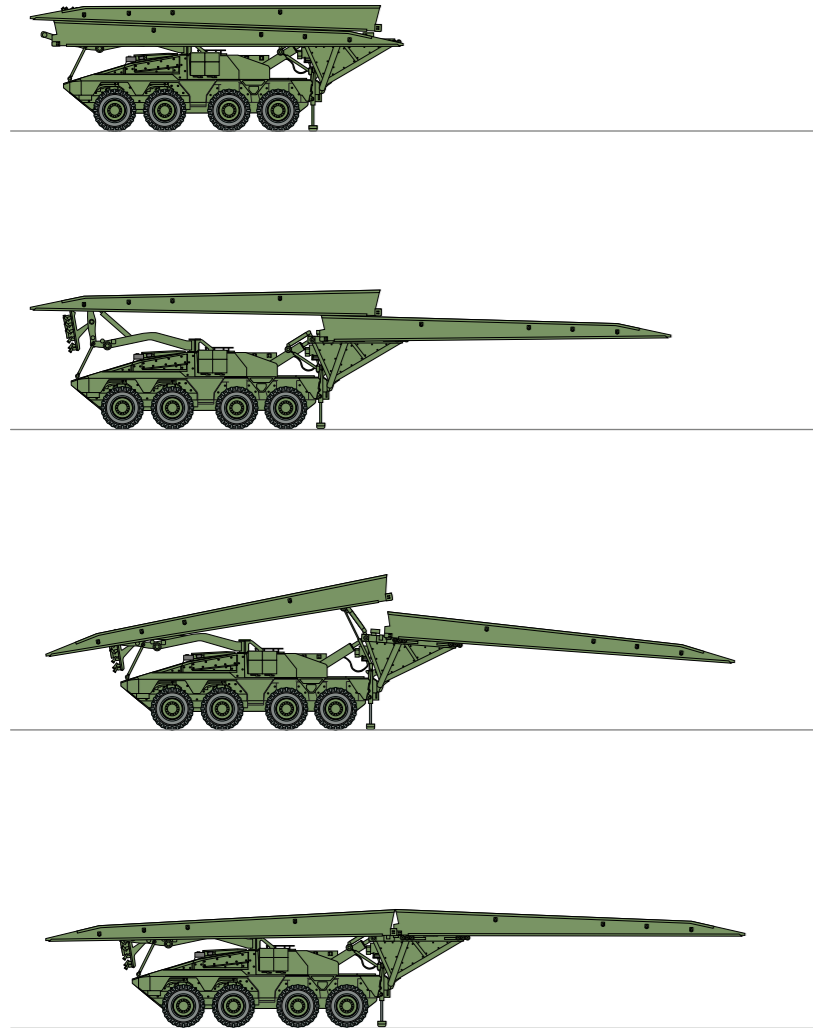


14 meter bridge LEGUAN MLC80/100



12 meter bridge TEJU MLC50

/ Laying Process



/ Technical Data

Crew	2 (driver and commander)
Engine	MTU V8 199TE20/21
Engine power	up to 600 kW
Total weight	39.5 t
Length	11 m w/o bridge / up to 14 m with bridge
Bridges	1x 22 m TEJU MLC 50 2x 12 m TEJU MLC50 1x 14 m LEGUAN MLC 80/100
Laying times	≤ 6 minutes (22 meter bridge) ≤ 4 minutes (14 meter bridge and 12 m bridge)
Equipment	NBC protection and ventilation system Modular protection equipment (ballistic, IED, mine) Air conditioning Camera systems Function monitoring

	12 meter bridge	14 meter bridge	22 meter bridge
Military Load Class	MLC 50	MLC 80 (optional MLC 100)	MLC 50
Weight	3.5 t	5.1 t (5.4 t)	7.1 t
Length	12.00 m	14.00 m	22.00 m
Width	3.50 m	4.00 m	3.50 m
Height	0.70 m	0.83 m	0.86 m
Max. obstacle width	11 m	13 m	21 m

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