

Tactical and Emergency Bridges

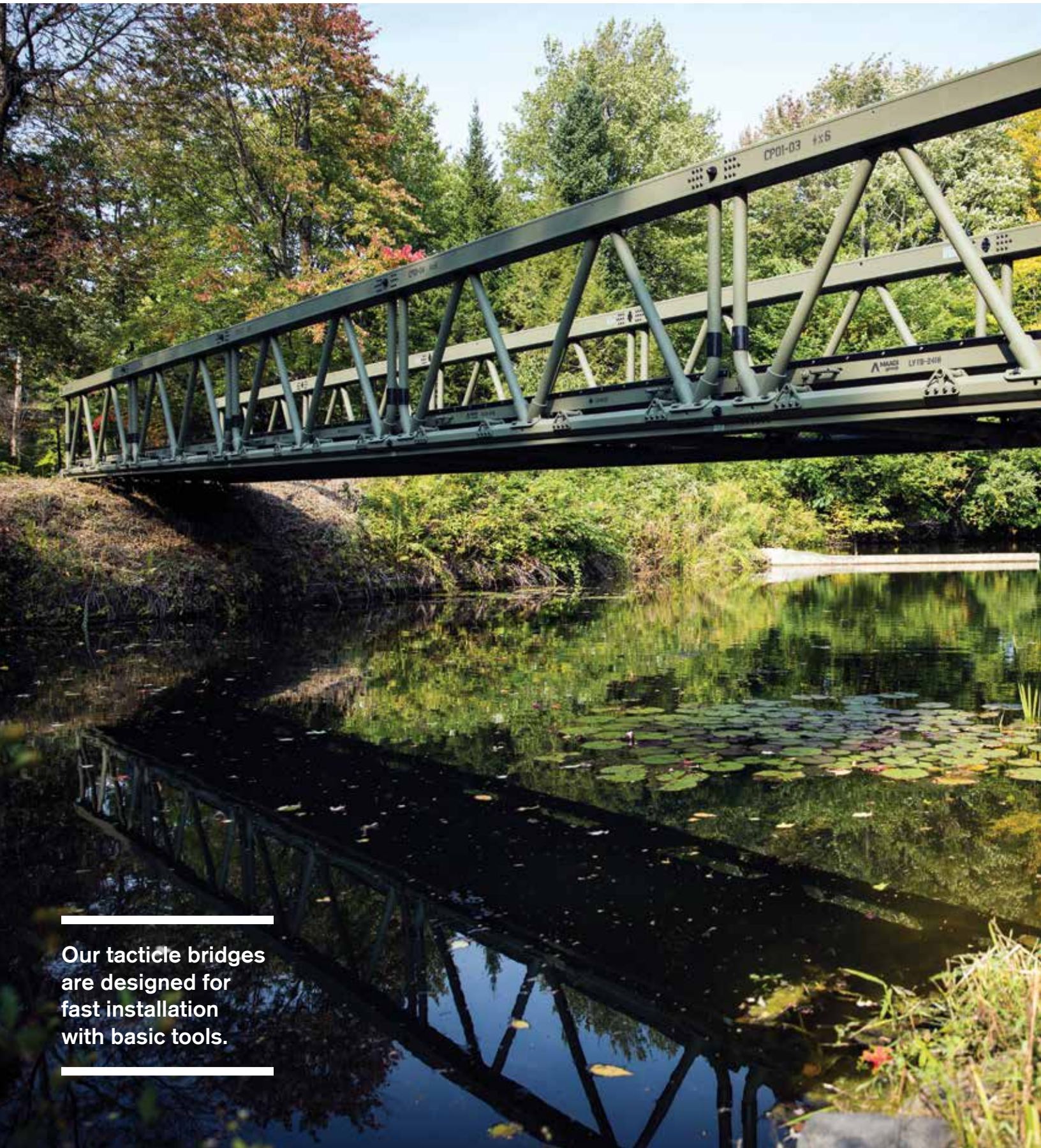
Aluminum Modular Bridges

Bridge in a box

Lightning-fast assembly

Structurally strong





Our tacticle bridges
are designed for
fast installation
with basic tools.



Keeping communities prepared

With floods and forest fires on the rise, civil security becomes increasingly vital to communities preparing for unforeseen minor and major disasters.

The versatile lightweight vehicle tactical bridges (LVTB), bundled for easy transport and set-up, make emergency preparedness planning by municipalities and governments easier.

The unique patented MakeABridge™ weld-free system optimizes durability and efficiency. Easy to assemble, it allows on-site repairs without any specialized labour.

Structurally strong, our LVTB-2418 bridges can withstand heavy use and harsh climates. With its modular design, our bridges allow the length to be adjusted according to the size of the obstacle to cross.

The high-strength yet lightweight aluminum alloy components are engineered to maximize load-bearing capacity with minimal structural weight.

MakeABridge®

Modular solution

Allows the length to be adjusted according to the size of the obstacle to cross.

Specifications

Clear width

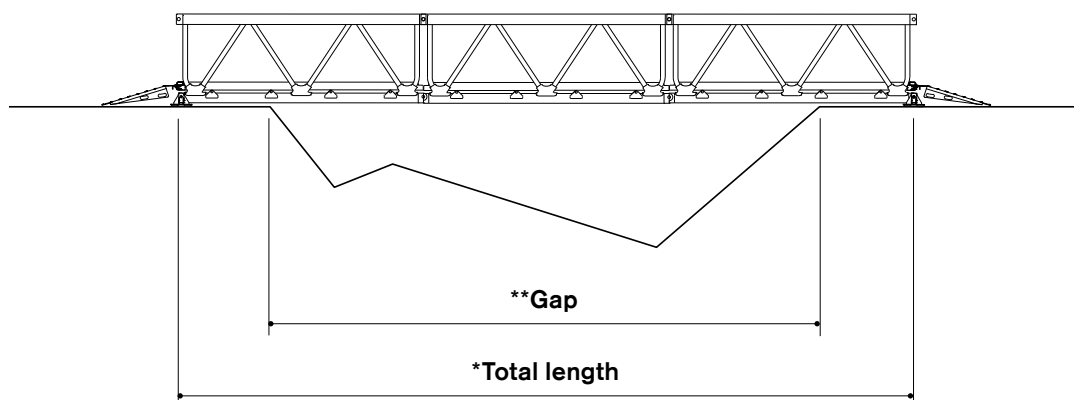
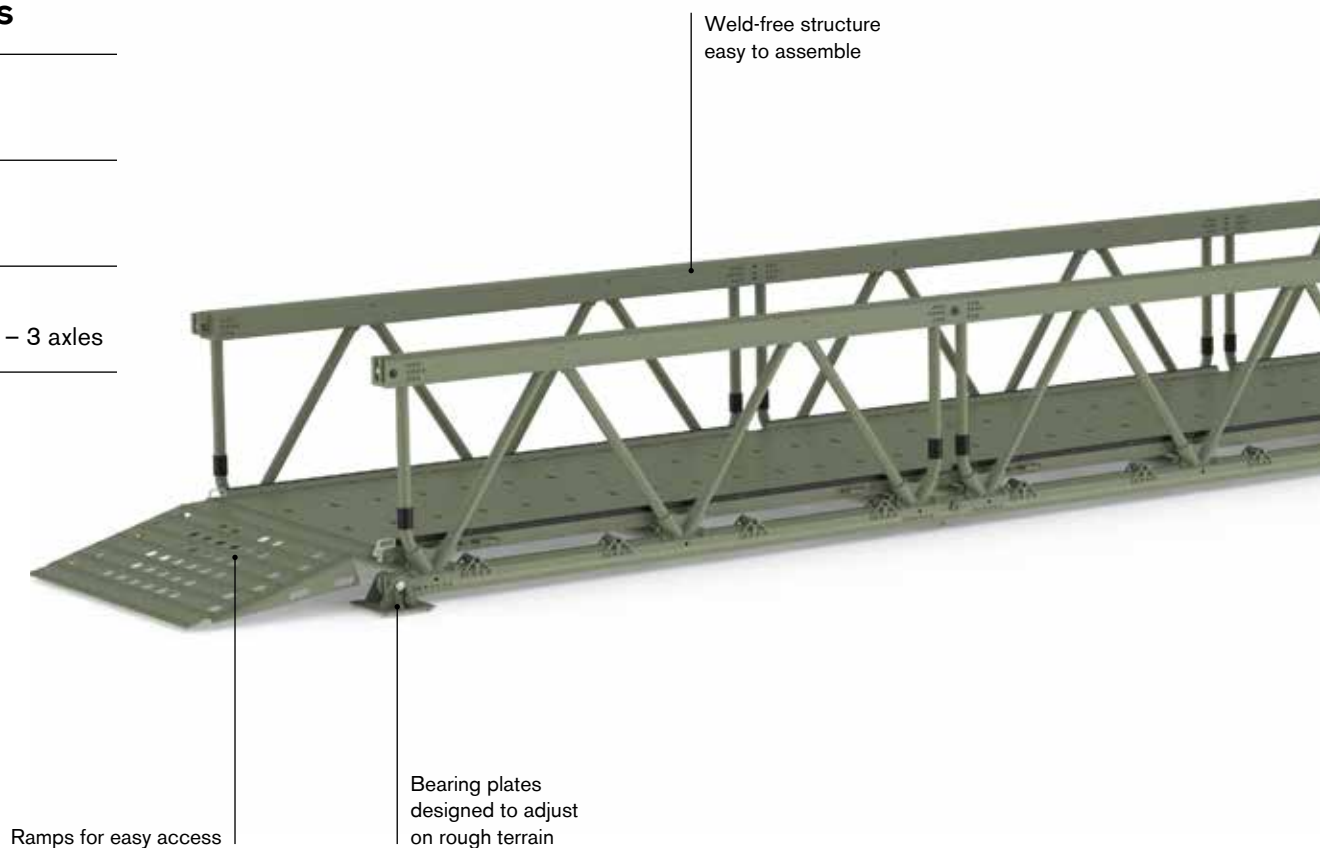
7' 2" (2.18 m)

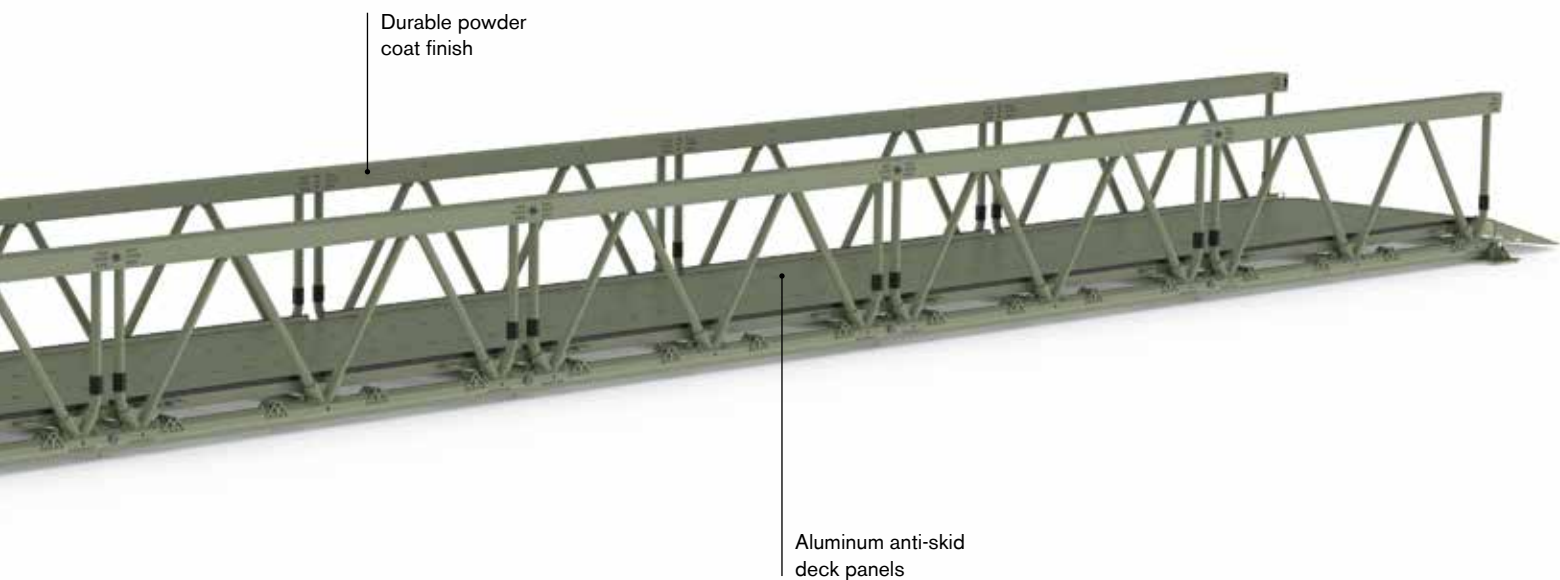
Pedestrian load

90 psf (4.3 kPa)

Vehicular load

5,000 lb (2,268 kg) – 3 axles





The bridge is comprised of up to six sections. Each section is easily transported by an Otan vehicle with the help of a custom-designed trailer.

Number of modules	Total length*	Gap**	Total weight
2	26' 3" (8 m)	Up to 16' 10" (5.14 m)	4,023 lb (1,825 kg)
3	39' 4" (12 m)	16' 10" to 30' 2" (5.14 m to 9.2 m)	5,787 lb (2,625 kg)
4	52' 6" (16 m)	30' 2" to 43' 4" (9.2 m to 13.2 m)	7,551 lb (3,425 kg)
5	65' 7" (20 m)	43' 4" to 56' 3" (13.2 m to 17.15 m)	9,315 lb (4,225 kg)
6	78' 9" (24 m)	56' 3" to 69' 7" (17.15 m to 21.2 m)	11,078 lb (5,025 kg)



Highest Standards

Design and materials

- 100% recyclable aluminum structural components and energy-efficient recycling.
- No welding – the aluminum maintains its full structural integrity.
- Corrosion-resistant and suited to extreme cold, aluminum does not crack at low temperatures.
- High-strength alloy construction using 6005A-T6, 6061-T6, AA357-T6.
- Fasteners in stainless steel 300 series.
- Aluminum anti-skid deck panels.
- Durable powder coat finish.

Patents

- Canada 2,607,711; Canada 2,869,050
- US 8,667,633; US 8,590,084; US 7,882,586; US 7,568,253
- Patents pending WO 2010/040205 A1 – 12/495,084

Maintenance

- Low maintenance structure.
- The weld-free system allows on-site repairs without any specialized labour.

Codes and standards

All MAADI Group weld-free bridges can conform to these codes and standards (or to others upon request), and bear the seal of one of our in-house registered professional engineers:

Canada

- CSA S157-17 Strength Design in Aluminum

U.S.

- AASHTO Specifications for Design of Pedestrian Bridges
- AA ADM (2020) Aluminum Design Manual
- Aluminum Standards and Data (AS&D)

International

- BS 8118-1:1991 British Structural Use of Aluminum

Award

The LVTB-2418 won 1st place in the Structure category at the 2022 International Aluminum Extrusion Design Competition, organized by the ET Foundation.

Warranty

2-year manufacturer's limited warranty against corrosion of the aluminum main load-bearing structure.

Watch
the video



Designed specifically for
NATO side-by-side UTV





Fast Assembly

Lighter and easier to install than competitive steel products

On-site assembly with standard tools and equipment

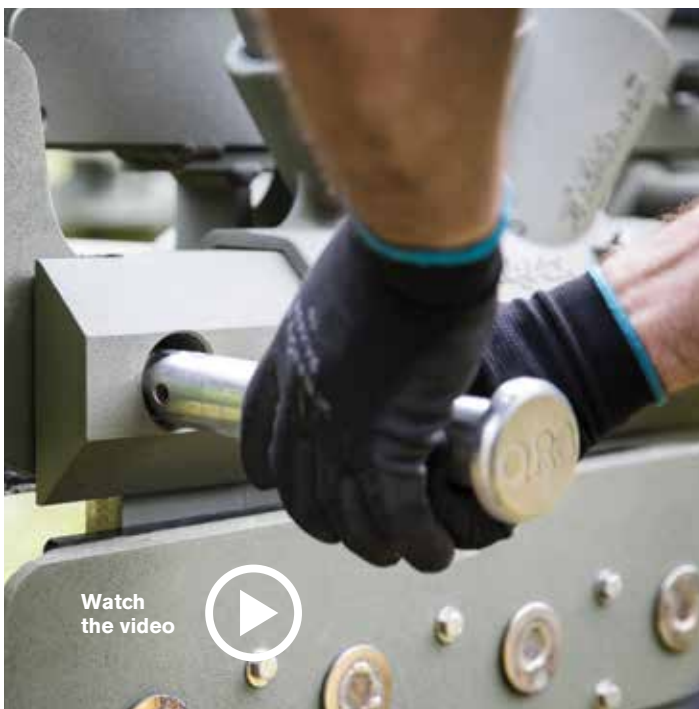
Requires a minimum of twelve soldiers with basic tools

Six sections bridge assembled in four hours by thirteen soldier

Technical guide


Step-by-step assembly and installation instructions, from site preparation to bridge launching

Includes a complete bill of materials (BOM) of the components, hardware and tools





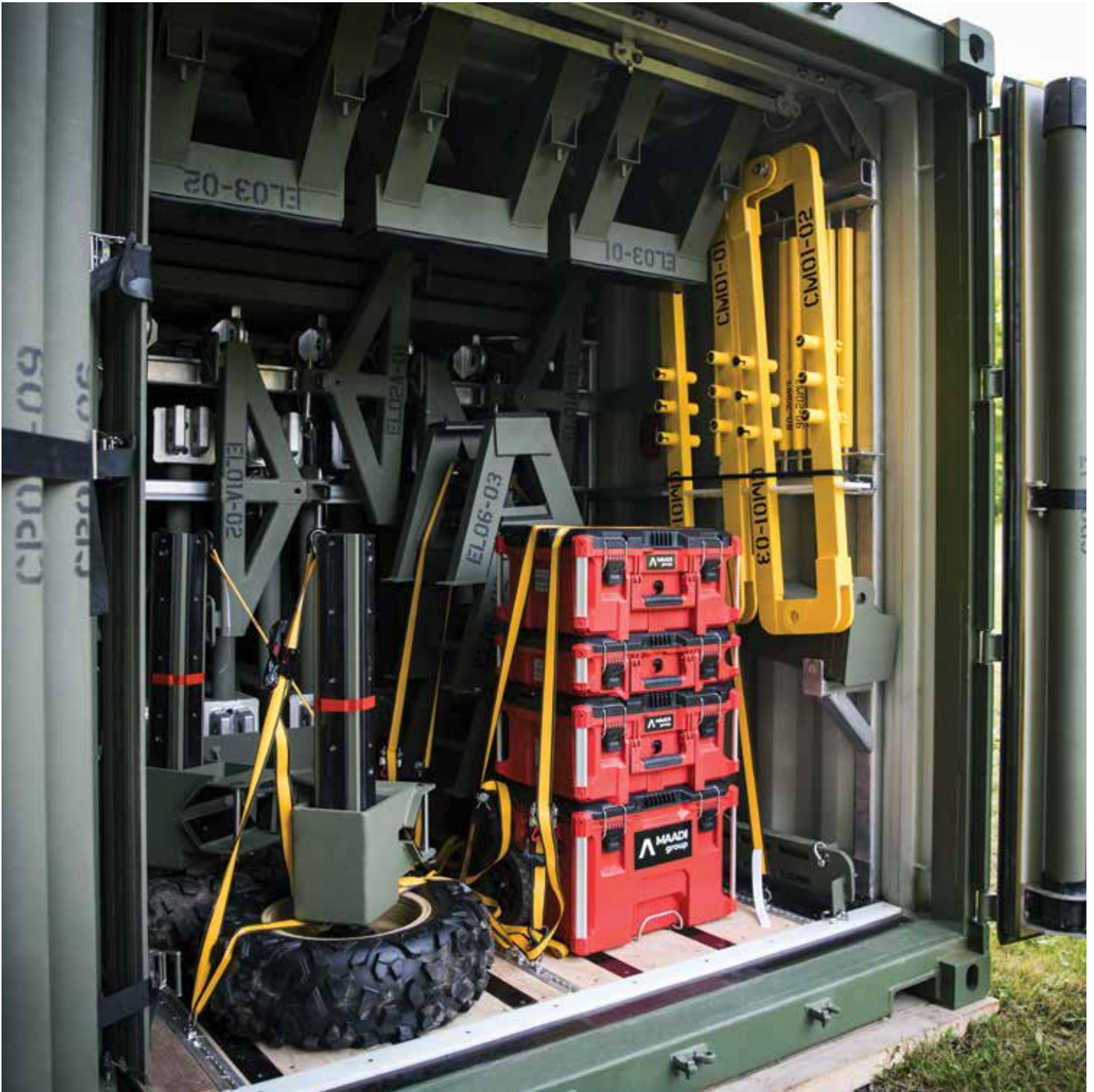


An aerial photograph showing a long, grey, modular bridge structure being installed on a grassy field. The bridge is composed of several rectangular sections connected by a metal frame. A group of about ten people are standing around the bridge, some on top of it and others on the ground, likely supervising the installation. The bridge is positioned parallel to a river on the left side of the frame. The surrounding area is a mix of green grass and some trees in the background.

With the horizontal launching system, the bridge installation requires no heavy machinery.

Bridge in a Box

Sturdy and optimized for travel



The container is designed to protect components during transport and arranged for easy access once at destination.

Easy shipping

Standard off-the-shelf components ready to be shipped worldwide

Shipped in a standard size 20' (6 m) container

Much lower shipping costs than steel structures

Delivery is four to eight times faster than for conventional welded bridges



Custom Trailer

Multiple configurations for all eventualities





Specifications

Built to be transported by a utility task vehicles.

Quickly adjusts to streamline the transport of components in up to 4 different configurations.

Adapts to fit the bridge and can expand in width from 6'-6" to 10'-2" (1.83 m to 3.10 m).

Each trailer has a maximum load of 1,500 lb (680.4 kg).

Customized area for storing tools.





The weld-free system
allows on-site repairs
without any specialized
labour.





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