

REBS

Rapidly Emplaced Bridge System



GENERAL DYNAMICS
European Land Systems

GENERAL DYNAMICS
European Land Systems–Germany

REBS



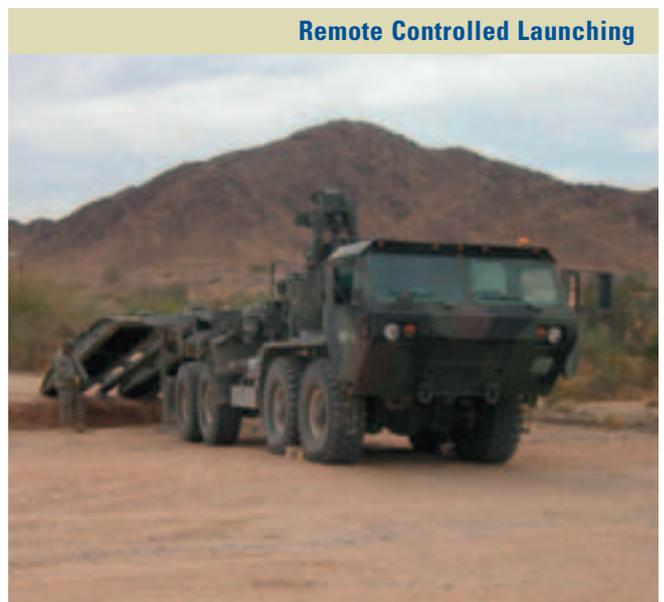
REBS Rapidly Emplaced Bridge System

The REBS Rapidly Emplaced Bridge System is an aluminum-made light dry-gap bridge which has been designed to meet the operational requirements for an air-transportable rapidly deployable bridge system in support of mechanized combat units with wheeled and tracked vehicles up to MLC 50. Due to its design REBS offers capabilities for the future army in terms of crossing capacity, size, weight and transportability.

REBS Main Components

- Transport and launching pallet
- Launcher (integrated in the pallet)
- Launch beam (integrated in the pallet)
- Two bridge halves
- Hydraulic system (integrated in the pallet)
- Electrical control system
- Diesel-hydraulic power source
- Laser range finder and camera on REB-ABLK

Remote Controlled Launching



The Bridge for the Future Force



REBS Mounted on PLS-Truck



REB-ABLK Mounted on PIRANHA III



REBS Performance

- Maximum payload: MLC 50
- Crossing capability: 13 m (42 ft 8")
- Remote-controlled hydraulic launching and retrieving in less than 10 minutes
- Crew: 2
- Truck-independent diesel-driven power source
- Horizontal free-launch to reduce silhouette
- Transport on and launch from every standard 10-15 tons PLS-Truck
- Bridge manufactured from high-tensile aluminum
- Design based on the proven AVLB BEAVER
- Air transport of complete bridge system in C-130, C-141, C-160, C-17, C-5 and A 400M or expanded bridge as helicopter underslung load
- Adaptable on various armored fighting vehicles with the Adaptable Bridge Launching Kit (ABLK); launching and retrieving in less than 2 minutes

Horizontal Free Launch



Ready for Crossing



REBS

REBS Mounted on U.S. Army PLS-Truck



REB-ABLK Mounted on Armored Fighting Vehicle (PIRANHA III)



Computer-Based Interactive Training



Computer-Based Training



REBS Operation Configuration

REBS Mounted on PLS-Truck

Moving into coupling position



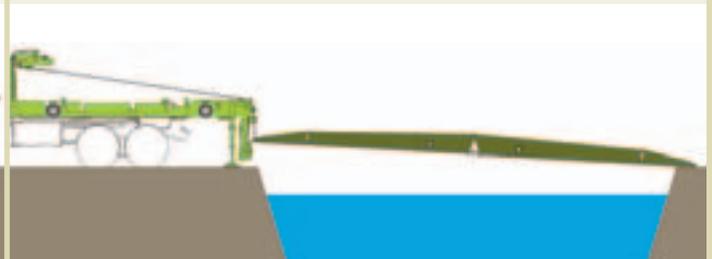
Coupling of bridge halves



Moving over gap



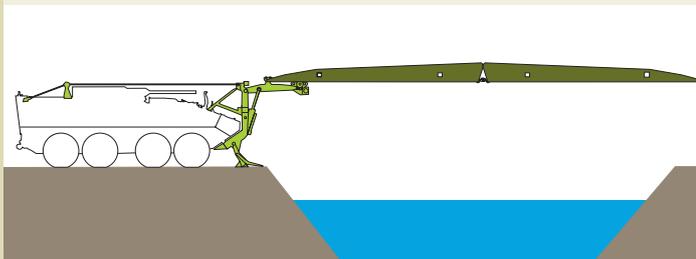
Lowering of bridge to home bank



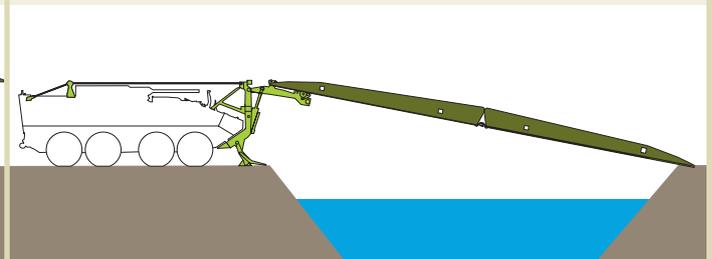
REB with Adaptable Bridge Launching Kit (REB-ABLK)

The Adaptable Bridge Launching Kit (REB-ABLK) allows armored protection to the crew during launch and retrieval procedures. The bridge itself is transported by a PLS-Truck and is then completely launched in a protected assembly area or in a covered position close to the actual crossing site. With the help of the REB-ABLK the launched bridge is then lifted on top of an armored fighting vehicle, driven to the nearby crossing site and launched under armor protection. REB-ABLK is equipped with a laser range finder and a camera. REB-ABLK can be easily adapted to and removed from the relevant armored fighting vehicle.

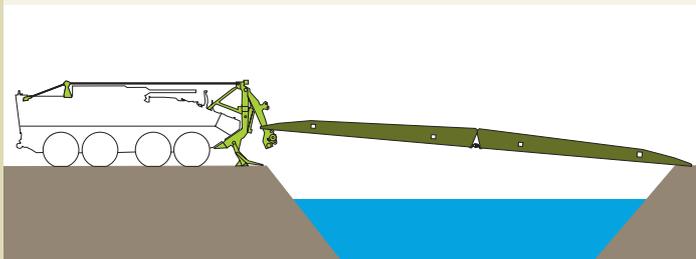
Moving over gap



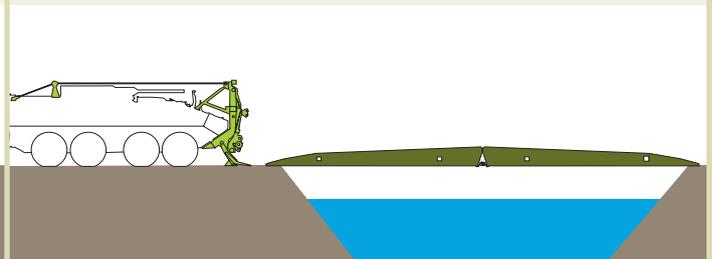
Lowering of bridge to far bank



Lowering of bridge to home bank



Ready for crossing



REBS Technical Data

REB-Bridge (expanded)

| | | |
|-------------------------|----------|------------|
| Payload (maximum) | | MLC 50 |
| Total length | 13.80 m | 45 ft 3" |
| Effective length | 13.00 m | 42 ft 8" |
| Width (operation mode) | 3.35 m | 10 ft 12" |
| Height (operation mode) | 0.56 m | 1 ft 10" |
| Width of track | 1.20 m | 3 ft 11" |
| Total weight | 4,800 kg | 10,582 lbs |

REBS Mounted on PLS-Truck (Standard Configuration)

Bridge on transport pallet

| | | |
|--------------------------------------|----------|--------------|
| Overall length | 7.63 m | 25 ft 0" |
| Width (transport mode) | 2.89 m | 9 ft 6" |
| Height (transport mode) | 2.20 m | 7 ft 3" |
| Total weight | 9,450 kg | 20,833 lbs |
| Launching time (bridge on PLS-Truck) | | < 10 minutes |

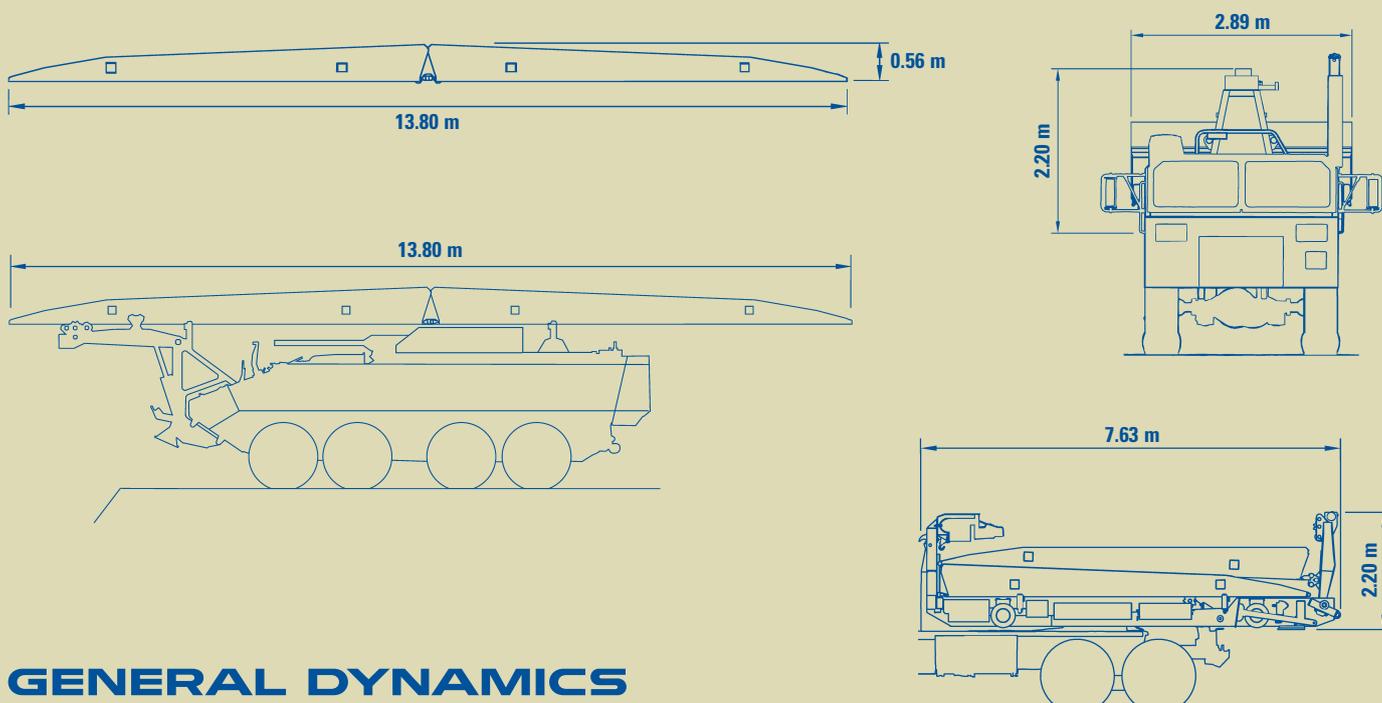
REB-ABLK Mounted on Armored Fighting Vehicles

| | | |
|-----------------------------------------------------|----------|-------------|
| Weight (ABLK) | 1,800 kg | 3,968 lbs |
| Launching time (bridge on Armored Fighting Vehicle) | | < 2 minutes |

Air-Transport

| | |
|----------------------------------------------|----------------------------------------|
| - REBS (bridge and pallet) | C-130, C-141, C-160, C-17, C-5, A 400M |
| - REB (bridge - deployed as underslung load) | CH-47 |
| - ABLK | all aircrafts with payload > 1,800 kg |

Subject to technical alterations. Specific requests by the customer will be implemented if possible!



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