

# Improved Ribbon Bridge (IRB)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



MISSION

Improves mobility by providing continuous roadway or raft capable of crossing military load classification 96 (wheeled)/80 (tracked) vehicles over non-fordable wet gaps.

DESCRIPTION

The Improved Ribbon Bridge (IRB) Float Ribbon Bridge System is issued to the Multi-Role Bridge Company (MRBC). The U.S. Army Modified Table of Organization and Equipment (MTOE) authorizes MRBCs to consist of: 42 IRB bridge bays (30 interior bays and 12 ramp bays), 42 Bridge Adapter Pallets (BAP), 14 Bridge Erection Boats (BEB), 14 Improved Boat Cradles (IBC), and 56 Common Bridge Transporters (CBT). These assets collectively address Tactical Float Ribbon Bridge “wet gap” bridging. All components are required to transport, launch, erect, and retrieve up to 210 meters of floating bridge per MRBC. The IRB can be configured as either a continuous “full closure” bridge or assembled and used for rafting operations. The IRB has a Military Load Capacity (MLC) of 105 wheeled/85 tracked (normal) and 110 wheeled/90

tracked (caution crossing). This MLC will support the Joint force commander’s ability to employ and sustain forces worldwide. The IRB is used to transport weapon systems, troops, and supplies over water when permanent bridges are not available. Bridge capabilities are provided in water currents moving at up to 10 feet per second.

The bridge system allows two-way traffic for HMMWV-width vehicles and increased MLC at all water current speeds over those of the Standard Ribbon Bridge. It is usable on increased bank heights over 2.2 meters (7.2 feet) and the improved folding/unfolding mechanism avoids cable breakage. Partially disassembled bays are C-130 transportable and externally transportable by CH-47 and CH-53 aircraft.

SYSTEM INTERDEPENDENCIES

**Other Major Interdependencies**  
IRB operations rely and are interdependent upon fully mission-capable CBTs, BAPs, IBCs, and BEB assets within a fully MTOE equipped MRBC

PROGRAM STATUS

This system has been fielded since 2002.

- **1QFY11:** 189th and 401st MRBCs
- **2QFY11:** 132nd and 551st MRBCs
- **3QFY11:** 35th EN TNB BDE

PROJECTED ACTIVITIES

Fieldings are ongoing based on the Army Requirements Prioritization List.

- **2QFY12:** Fielding 361st and 892nd MRBCs
- **3QFY12:** Fielding 125th and 502nd MRBCs
- **4QFY12:** Fielding 250th MRBC

ACQUISITION PHASE

Technology Development

Engineering and Manufacturing Development

Production and Deployment

Operations and Support

## Improved Ribbon Bridge (IRB)

### FOREIGN MILITARY SALES

None

### CONTRACTORS

General Dynamics European Land Systems-Germany (GDELS-G)  
(Kaiserslautern, Germany)

### Logistic support:

AM General (AMG) (Livonia, MI)

### CBT manufacturer:

Oshkosh Corp. (Oshkosh, WI)

### BEB manufacturer:

FBM Babcock Marine (Isle of Wight, United Kingdom)

