

# Bridging the World

Connecting People and Places



Mabey Bridge has designed, manufactured and delivered superior bridging to more than 150 countries. Offering the largest available range of modular bridge systems, Mabey Bridge solutions are used to develop, improve and repair essential infrastructure in urban and rural areas, including the most remote and challenging locations.

From restoring vital lifelines in disaster-hit areas, to enabling economic development through essential infrastructure improvements, to upgrading military supply routes, Mabey Bridge is a world leader in high-quality, cost-effective, easy-to-assemble, pre-engineered modular bridging solutions for temporary and permanent use.

## Global scope; local focus

Mabey Bridge is the chosen supplier for governments, NGOs, contractors and military forces around the world and enjoys strong and long-term relationships with its customers. Its global network of representatives can react quickly to enquiries and emergencies, and brings vast expertise in project development, consultancy, emergency response and installation.

Mabey Bridge has an international reputation for delivering projects which meet specific industry and local requirements. Its representatives provide liaison and consultancy in several languages and bring an understanding of local cultural and political sensitivities to customer relationships.

Mabey Bridge is committed to the highest standards of ethical business practice and holds ISO 37001 accreditation, the international management standard developed for organisations that are leaders in business ethics.

### Capabilities

- Emergency bridging to restore lifelines in disaster-stricken areas
- New and replacement bridges in rural locations
- Flyover systems to maintain and improve traffic flows in urban areas
- Temporary and permanent site access solutions
- Military and main supply route bridges
- Initial deployment and relocation support
- Site services, installation and logistics expertise
- Training and project support
- Financing solutions tailored to customers and projects
- After-sales liaison and advice.



Trusted around the world

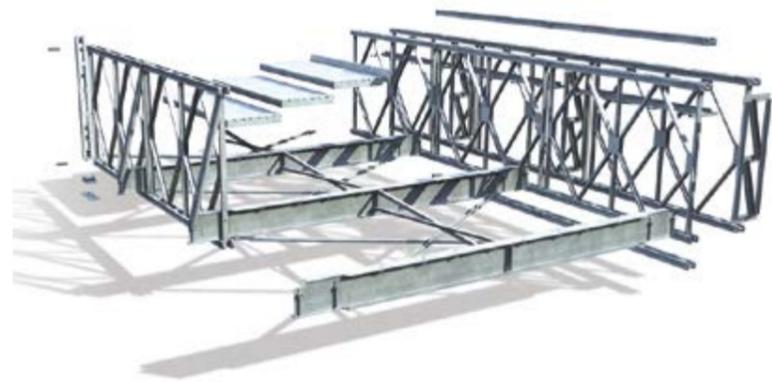
# Modular bridge overview

Manufactured from standard engineering units that are either pinned or bolted together, Mabey Bridge modular solutions can be configured for a wide range of applications, urban or rural, single or multi-span, temporary or permanent. Our team of engineering specialists can advise on the best Mabey Bridge solution for your specific application.

Type of bridge	Site construction			Deployment			Individual module length (m)	Standard carriageway widths (m)				Internal footwalks (m)		Cantilever footwalks (m)		Maximum clear span	Key bridge applications
	Joining	Welding	Build	Cantilever launch	Crane in	Reusable		3.15	4.2	7.35	10.5	0.5	1.0	1.0	1.5		
<b>Compact 200™</b> 	Panel	Panels are pinned	No site welding required	Light plant or hand	✓	✓	✓	3.048	✓	✓	✓	✓	✓	✓	✓	72m	   
<b>Universal™</b> 	Panel	Panels are pinned	No site welding required	Light plant	✓	✓	✓	2.25 half bay: 4.50 full bay	✓	✓	✓	✓	✓	✓	✓	81m	  
<b>Delta™</b> 	Truss	Delta units are bolted  Preload bolts	No site welding required	Small plant	✓	✓	✓	4.50	✓	✓	✓	✓	✓	✓	✓	100m	
<b>Atlas™</b> 	Girder	Girders are bolted  Preload bolts	No site welding required - optional on long spans	Dependent on structure	✓	✓	✓	Dependent on structure	✓	✓	✓	✓	✓	✓	Dependent on structure	 	
<b>Logistic Support Bridge™</b> 	Panel	Panels are pinned	No site welding required	Light plant or hand	✓	✓	✓	3.048	✓				✓		61m	 	
<b>Composite Bridge</b> 	Rolled beam or plate girders	Beams are bolted	No site welding required	Dependent on structure	✓	✓		Dependent on structure	✓	✓					Dependent on structure		

Please visit [mabeybridge.com](http://mabeybridge.com) for more information





## Compact 200™

Mabey Bridge's top-rated, best-selling product.

This hugely popular pre-engineered, rapid-build, modular steel panel bridge system features standardised, fully-interchangeable and relocatable components that deliver robust solutions for both permanent and temporary use.

Compact 200™ is ideally suited for use in even the most remote locations or as emergency bridging to support the delivery of relief in disaster-stricken areas.

More than 500km of Compact 200™ bridging is in place on five continents, providing simple reusable and adaptable bridging solutions for a variety of problems, challenges and locations.

## Robust, rapid-build relocatable bridging for permanent and temporary access

### Rural bridging

- Rapid deployment in disaster-stricken areas
- Low-maintenance solutions for permanent and temporary use
- Sustains key road links in remote regions
- Configurable for vehicles, pedestrians or as pipe support bridging
- Can be used to create modular floating structures.



Compact 200™ comes in a wide variety of configurations that offer cost-effective solutions for a range of span and loading combinations.



# Universal™

Universal™ bridging combines large, deep, modular panel units with a selection of decking systems to create a robust heavy-duty modular steel bridge system able to take heavy axle-load vehicles over spans of up to 81m.

With a range of standard road widths up to 10.5m (three lanes), including internal pedestrian refuges and cantilevered

external footways, Universal™ bridging is ideal for locations needing access for heavy plant equipment.

Universal™ is the ideal solution for wide-span permanent bridges in rural areas or locations where site access for heavy duty or off-road earth-moving vehicles is required.



Universal™ can be cantilever launched or craned into place.

The robust design of the Universal™ offers **strength, flexibility and exceptional resistance to fatigue**



## Heavy duty access

Universal™ bridge systems are ideal for:

- Long-span rural bridges
- Temporary heavy-load haul roads
- Construction, forestry, oil and mining activities
- Disaster relief
- Enabling the transport of large loads to and from remote sites.



# Delta™

Delta™ brings together the skills and knowledge from more than sixty years' experience in the manufacture, design and building of modular bridging.

Combining the best in off-site fabrication with high-speed construction and rapid installation, Delta™ bridging offers significant advantages over more traditional construction techniques. The innovative Delta™ bridge, with specially designed

deck and pre-camber system, can be configured for single or multiple span bridging, in road widths up to 10.5m (three lanes).

The Delta™ Bridge System is ideal for permanent use on main highways and roads in rural areas. This includes permanent long-span applications, main routes, semi-permanent installations or bridging support for weakened or damaged structures.

**Modular bridge range that delivers superior, permanent long span bridging**



## Supporting major road authorities

- Re-opening sections of national road networks to allow regional communications
- Allows regional and national road authorities to hold contingency stocks against potential infrastructure damage to maintain vital communication links.



# Atlas™

Atlas™ is lightweight, robust and quick to install. Its prefabricated modular design is invaluable in both rural areas and busy cities; simple to construct with minimal disruption to traffic flow. Atlas™ is available in standard or bespoke designs.

It can be configured as a conventional bridge or as a flyover to ease urban traffic congestion. An additional benefit is the

capability to construct within a tight footprint – this means that any traffic disruption during construction is also kept to a minimum. The design is pre-cambered and can be used in locations where curves are required.

The main girders can be painted to fit in with the location; important both in towns and cities, and rural areas.



## Urban and rural applications

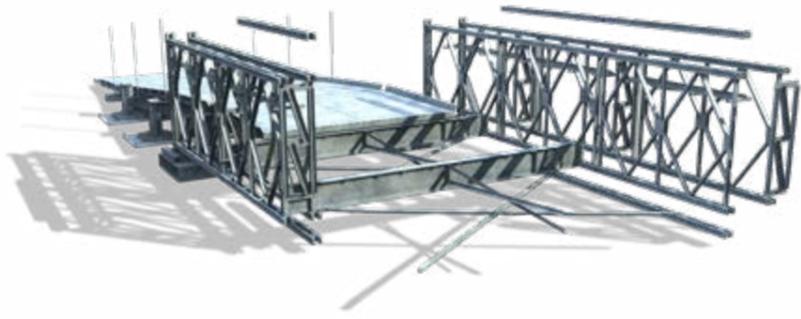
- Ideal for shorter span permanent bridging on country roads
- Flyover configuration relieves congestion in busy cities
- Perfect for infrastructure upgrades
- Rapid installation minimises disruption.

## Lightweight, robust and quick to install solution ideally suited to urban infrastructure upgrades



The Atlas™ system was chosen as an alternative to concrete for the Nugegoda Flyover, Colombo, Sri Lanka. Offering rapid erection, minimal foundations and footprints and reduced disruption – a key advantage in busy urban environments – the flyover was built in just 60 days.





# Logistic Support Bridge™

Based on the tried-and-tested Compact 200™, the Logistic Support Bridge™ (LSB™) is used by military forces around the world.

The LSB™ is quick and simple to erect, uses fully interchangeable standard components, and can carry the heaviest military and civilian vehicles.

The LSB™ is NATO-approved and has been adopted by several NATO and NATO Partner nations including Britain, Spain, Denmark, Portugal and Switzerland and by the armies of many other countries, including Brazil.

All LSB™ components can be transported on DROPS/PLS flatracks or in standard ISO containers; the main structural components can be transported by helicopter as underslung loads.



## The world's most popular and trusted military supply route bridging solution

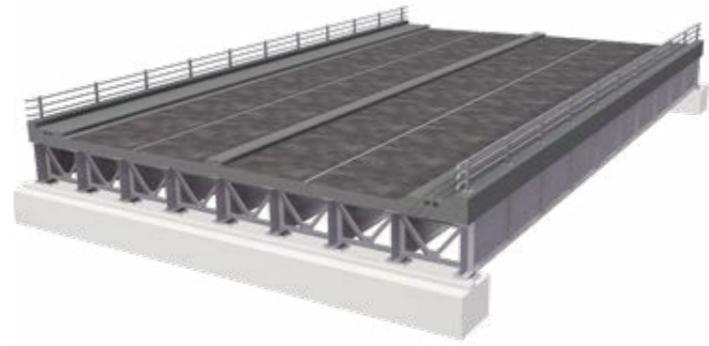


The LSB™ can carry a main battle tank at Military Load Class 80 Tracked (MLC 80T) across a clear span of 60m and the same tank on its transporter at Military Load Class 110 Wheeled (MLC 110W) across a clear span of 51m.

### Military support

- Unrivalled military bridge system
- Ideally suited for upgrading main supply routes or rapid replacement of weak or damaged civilian bridges
- Supports the heaviest military loads and all types of normal civilian traffic
- Roadway width 4.2m; bridge length from 9 to 60m; can include footways
- Used to replace assault and general support bridges
- Provides long span floating bridge capability
- Adjustable ramps allow access for all civilian and military vehicles.



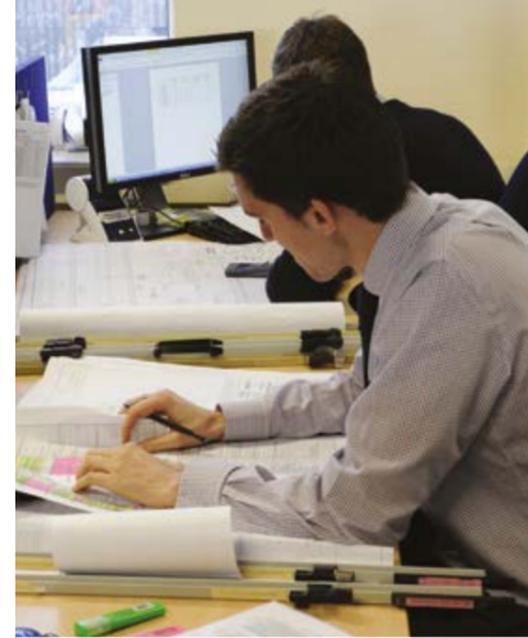


# Composite Bridges

Composite Bridges can accommodate multiple spans of any length and any width to cater for the heaviest traffic requirements. They combine the benefits of quickly erected and lightweight steel superstructure components with the durability and robustness of concrete decks.

Composite bridges are designed to use locally sourced and manufactured concrete deck slabs. Formwork for the concrete decks can be supplied either as proprietary formwork or as steel deck panels to facilitate in-situ casting.

**Designed to accommodate local manufacturing capability and concrete availability**



**Delivering smart bridging solutions – Mabey Bridge Capabilities**



A robust and versatile infrastructure solution which can accommodate any module length, carriage width or number of lanes, yet can be installed rapidly using medium-sized plant.



# Modular bridge applications

Mabey Bridge steel panel bridges are extremely versatile. They can be used for both permanent and temporary bridges as well as for emergency bridging in disaster zones.

The modular design and interchangeable components mean almost any length of bridge can be installed quickly and easily. Old and new stock can be mixed-and-matched to create bespoke solutions.

Mabey Bridge is proud to have supplied modular bridging solutions to over 150 countries worldwide, to customers such as National Governments, NGOs, global energy and mining corporations and major construction companies.

## Versatility

Modular 'out-of-the-box' designs use interchangeable, standard components that can be assembled quickly and easily on site. They are ideally suited for:

- Rural and urban bridging
- Permanent or temporary bridging
- Emergency relief
- Main highways
- Construction site access and temporary haul roads
- Vehicular or pedestrian bridges
- Flyovers
- Military bridging
- Pipe support bridging
- Floating/pontoon bridging.

# Design, project support and quality

Mabey Bridge's modular bridging range is manufactured to the very highest standards in automated, world class production facilities. The fully certified processes and commitment to quality assurance ensures all components are uniform, reliable and ready to use. Customers can be sure that Mabey Bridge components are fully compatible from one order to the next, providing full flexibility with existing stockholdings.

Mabey Bridge has a stringent quality control system, and components are rigorously tested at all stages of production. This gives certainty that Mabey Bridge's products will be delivered right first time, every time.

Dedication to quality and delivery results in extremely high levels of satisfaction. Customers all over the world have come to appreciate the superior quality of Mabey Bridge products.

From consultation to design advice, final delivery to installation, Mabey Bridge gives its customers service that is second to none. Mabey Bridge's extensive experience of working alongside local partners, government departments and contractors helps produce solutions for the most challenging locations and situations.

## Faster, safer, more efficient infrastructure solutions for permanent and temporary applications



As well as having the resources to deploy staff and advisors at short notice, Mabey Bridge offers a full range of project support, including engineering, training, installation and maintenance advice.

# Transport

Mabey Bridge's modular bridging components are lightweight, small and easy to transport. Modular bridging is also straightforward to dismantle and store ready for reassembly when need arises. Many customers hold stock for use in emergencies or during infrastructure improvement projects. Mabey Bridge holds a wide range of components in stock to ensure projects progress accurately and quickly.

Mabey Bridge's modular bridging components are exceptionally easy to package and transport and can be readily shipped to any part of the world. Most components can be packed into standard ISO containers. On arrival, the containers can be delivered by road to the most remote and difficult locations, even those with limited site access and minimal site machinery.



# Site services, assembly, installation and training

Mabey Bridge's global network of representatives has built or overseen the installation of thousands of bridges worldwide. Its site advisors, engineers and emergency response teams have a rich store of skills and knowledge in site reconnaissance, planning, logistics, infrastructure development and installation, all of which they draw on for rapid and accurate assessment of customers' bridging needs.

The modular design and consistent manufacture of the Mabey Bridge bridge product range ensures local teams require minimal training in order to take control of installation. Training can be conducted in-country or at Mabey Bridge's Bridge Park based in the UK.

Mabey Bridge's site advisors are practised in working with inexperienced installation teams and developing the skills of local workforces. Mabey Bridge's international representatives provide liaison and consultancy in nine languages, supporting effective communication and development.

## Rapid response, directly to site: easy to store and relocate



Standard ISO containers delivered to site by road contain all the modular bridging components needed to complete the project.



Training support minimises the need for specialist contractors and speeds up installation, allowing rebuilding to start as quickly as possible and emergency supplies to reach those in need. Mabey Bridge provides training in-country and follows all local safety protocols.

# Financing solutions tailored to customers' needs

Mabey Bridge recognises the importance of delivering projects on time and within budget. However, it also recognises that projects face many different kinds of challenges, one of which is access to adequate funding. Without the right finance in place, vital projects may be delayed or in the worst case, not happen at all.

Mabey Bridge has a long-standing and comprehensive understanding of financial markets and strong relationships with governments, financial institutions and national and local banks, allowing Mabey Bridge to offer its customers help to secure essential finance.

From Project Financing through to Export Credit Financing and Extended Trade Financing, Mabey Bridge can help its customers and their communities to secure funding suited to their project and their situation.

With extensive experience of working in collaboration with governments, ministries and aid agencies, Mabey Bridge can support all phases of a project and help customers complete the documentation required by financial institutions.



# After-sales support

Bridges naturally suffer wear and tear over their lifetime; Mabey Bridge offers extensive after-sales support to ensure bridges remain in useful service for the maximum possible time.

All Mabey Bridge customers receive a comprehensive manual that offers guidance on maintenance. Customers are encouraged to liaise closely with the company's expert and knowledgeable site advisors, who are ready to offer advice and support to help maintain bridges to the highest possible standards. Local site advisors are in turn supported by the highly-skilled engineers at Mabey Bridge's manufacturing sites.

If bridges are damaged, Mabey Bridge's site advisors will recommend plans for repair, and arrange and manage delivery of any components needed for refurbishment or replacement.



Mabey Bridge's Bridge Park welcomes visitors to see assembled bridges.

## Connecting people, changing lives, making impossible projects happen



Clients visit the Mabey Bridge manufacturing facility to see the automated production and advanced design technology.

# mabey bridge

an Acrow Company

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