The Mabey Universal Bridge System

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Introduction

Developed in the 1970’s, Mabey Universal is the ‘big brother’ of the Compact 200 bridge system.

Mabey Universal uses 2.485m deep panels and a selection of decking systems to create a robust heavy-duty modular steel bridge system with a clear spanning capability of up to 81m.

Mabey Universal is the ideal solution for longer span permanent rural bridges, bridges for mining, logging and mineral extraction sites, temporary site access and river crossings for heavy off-road earth moving vehicles, and provides the greatest flexibility to bridge rental fleets.
Attributes

- Modular, pre-engineered, pre-fabricated bridge system
- Standard interchangeable components
- Highly adaptable, fully reusable and re-locatable
- Manufactured using robotic welding
- Transported in standard ISO containers
- Quick and simple to build using unskilled labour
- Fully galvanised for long life and minimum maintenance
- Robust, long lasting with high fatigue life

Bridge components are galvanised for longevity

Site access bridge, United Kingdom

Three-span highway bridge, Wales

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Technical Information

- Clear spans between 9m and 81m
- 2.25m module length
- Multi-span configurations
- 3.15m (single), 4.2m (extra wide), 7.35m (2 lane) or 10.5m (3 lane) carriageways
- 0.5m, 1m or 1.5m pedestrian footways
- Vehicle parapets available
- Proprietary steel decking systems to suit different loading requirements
- Durbar finish or factory applied anti-slip surfacing
- Full highway load carrying capability
- Options for CAT 770 or other heavy earth moving equipment
- Simple, cost effective foundations

Bridge Truss Constructions

A number of different truss configurations are available to provide a cost effective solution for all span and loading combinations.

![Bridge Truss Constructions Diagram](image-url)
Applications

- Permanent long span rural applications
- Semi-permanent and temporary bridges
- Contractor’s use and hire fleet bridging
- Emergency response structures
- Heavy duty contingency planning stocks
- Disaster relief bridging
- Floating bridges
- Over-bridging for weak or damaged structures

Site access bridge, United Kingdom

Single lane bridge, United Kingdom

Suitable for heavy off road earth moving equipment

Single lane bridge during erection, Norway

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Mabey Inc. is committed to delivering high quality bridging solutions backed by exceptional service to customers worldwide.

To experience our unrivalled range of products and services, or for any further information, please contact a member of the Mabey team.

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