

## GINJOE MBIU – An Innovative Inspection and Maintenance System for Bridges made for the First Time in India

Gemini Power Hydraulics Pvt. Ltd. have launched their New Product viz. Ginjoe Mobile Bridge Inspection Unit (MBIU)

This product is very much indispensable for carrying out the bridge inspection and maintenance tasks. It is a versatile and efficient machine, built on the reliable TATA PRIMA 3123 or equivalent cabin chassis without there being any need for modifying the chassis. It is designed to provide a safe, quick and economic system of access to those structures where setting of scaffolding is not feasible or not economical. These units take a few minutes only to launch from the rest position to the work position without personnel on board. After initial launching maneuvers are completed, operators can easily descend on the platform through the provided protected access.

There are thousands of old bridges in the country many of which are in a dilapidated state needing immediate repairs. Therefore such a special purpose vehicle can only be termed as the need of the hour. Such machines are available from imported sources and a few such machines are already there in India which have been imported at exorbitant prices. Due to the high cost of imported spare parts and poor availability of service facilities most of these imported units are lying idle.

Gemini Power Hydraulics Pvt. Ltd, well known for providing work saving solutions to the industry well ahead of time, are first in the country to supply such indigenously manufactured MBIUs matching in specifications at almost half the price of the imported



units. As these units are built on Indian vehicle chassis, the after sales service support and the spare parts are easily available.

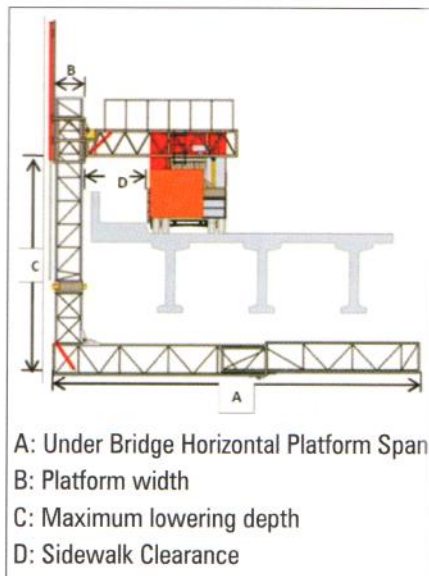
This is an initial foray of Gemini into manufacturing activity which is quite in sync with the current national mission of "Make in India".



These MBIUs are built under Technology Transfer Licence from CSIR-CRRI. The CRRI design is a basic electro mechanical one, but Gemini has improved on the basic model by incorporating a hydraulic-mechanical design for better reliability and safety. This change as well as other features that have been incorporated makes the product several notches above the basic model of CRRI.

Gemini Engineers and Consultants after studying, analyzing and taking user feedback, took it upon themselves as a challenge to deliver a product which is technologically superior, more reliable and safer. The first MBIU has been designed, fabricated and manufactured under the Make in India campaign.

Within a short span of period, Gemini have received orders for two units and the first unit has already been supplied and acquitting itself to the full satisfaction of the user. This was only because the unit was thoroughly tested not only in the factory but also on a nearby bridge before it was dispatched to the customer.



A: Under Bridge Horizontal Platform Span  
B: Platform width  
C: Maximum lowering depth  
D: Sidewalk Clearance

Considering the large need for such Bridge Inspection Units, Gemini is confident that they will soon have a fleet of these units in every state of India. They are also looking at the market for these units in the neighbouring countries.

Three Models are available – Ginjoe – 10, Ginjoe – 12 and Ginjoe – 15 having under-bridge horizontal platform span of 10, 12 & 15 meters respectively. Mast Lowering Depth for all models is 8 meters.

### Other Salient Features of the MBIU:

- Ergonomic design and Assist in quick repair
- Easy trouble shooting and maintenance
- Wind monitor and alarm
- Multiple Interlocks for added safety
- Dedicated Power Supply – DG Set
- Compressor Unit for operating maintenance tools and general cleaning.
- Sensors for monitoring stability
- Dedicated Remote PLC box & Remote Access Controls
- Security and CCTVs monitoring
- Automatic alarm and emergency cut-off system
- Remote diagnostic system for trouble shooting.

For More Details Contact Us:

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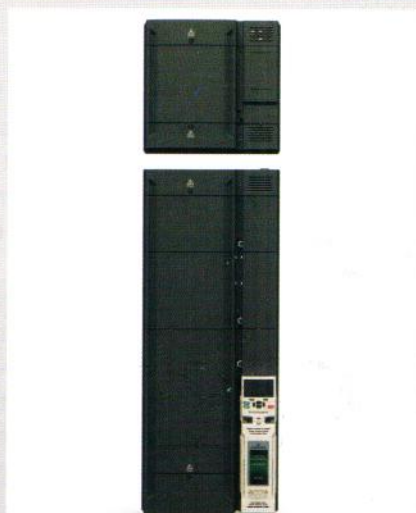
Website: www.geminiindia.com

## Control Techniques Introduces New High Power Modular Drives

Control Techniques, an Emerson business, has extended its range of high power modular drives. Both its Unidrive M and Powerdrive F300 variable speed drive ranges are now available in the larger frame size 11, providing a flexible method of building compact, reliable high-power solutions.

Paralleled together, Unidrive M can control asynchronous and permanent magnet motors in systems up to 2.8 MW (4,200 hp). The new frame 11 is a 50 kW (400 hp) module that allows system builders to create high power solutions with the smallest number of components, keeping both footprint and costs to a minimum.

Unidrive M differentiates itself on



performance with extremely fast current control algorithms and high switching frequencies. Active Front End (AFE) solutions deliver unparalleled torque precision and power quality.

The Unidrive M modules can be paralleled into a wide range of flexible solutions to solve all system needs including Active Front End and multipulse rectifier configurations. They can be controlled by Control Techniques' Unidrive M600, M700, M701 and M702 controllers. Control Techniques also offers a full range of high powered drive products tailor-made for fan, pump and compressor applications from 90 kW to 2.8 MW. The Powerdrive F300 series also features a modular design and can control permanent magnet or standard AC induction motors. This modular approach to building high power systems also provides the flow industry with flexibility while keeping complexity low.