

# PFM MOTORIZED FLOATING BRIDGE

Tactical wet gap crossing capability



## CNIM'S MODERNIZATION NOW ALLOWS THE PFM TO ACHIEVE THE FOLLOWING

CNIM has over 150 years of engineering excellence and innovation across the Defense sector;

CNIM continuously adapts and improves its bridging systems to ensure they meet customers needs and requirements.

CNIM undertook a modernization program on its Motorized Floating Bridge which was executed in conjunction with our customer's feedback ensuring that we met their operational needs and requirements.

- **FASTER** deployment/retrieval time thanks to the introduction of new more powerful engines.
- **Support HEAVIER** vehicles: up to MLC 80 (STANAG 2021).
- **MINIMUM PERSONNEL**: 33 people for a bridge of 100 meters
- **LOW MAINTENANCE**: fatigue monitoring systems have been introduced on each section.
- **Integration of the CUSTOMERS PREFERRED VEHICLE**: Providing more flexibility to suit the customers' needs.
- **More user friendly, DUAL APPLICATION**: it can be used during either military or disaster relief operations.

## LAUNCHING SEQUENCE

- Easy, fast and mechanized implementation
- Minimum personnel
- Great maneuverability of 360°
- No need of erection / auxiliary boats
- Day & night operations

Automatic launching



Controlled launch with Crew on-board



Motorized sections



No erection boats needed



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## DUAL APPLICATIONS

CNIM has over 30 years of excellence in bridging systems. Its Motorized Floating Bridge, the **PFM**, provides today's ground forces with the capability of rapidly crossing wet gaps and obstacles such as large rivers and lakes. The PFM is an autonomous, force projection enabler. The PFM can be deployed as either a **continuous floating bridge** or as a **self-propelled ferry** enabling vehicles up to class **MLC 80** to cross over wet gaps.



Enabling to be set up a bridge or a ferry, the PFM offers unique assets to Armed and governmental Forces. In the bridge configuration, the PFM can substitute a destroyed/damaged bridge, providing continuous crossing and allowing the quick restoration of traffic and human flow. Whereas in the ferry configuration, the PFM offers discontinuous crossing when there's little time to accomplish the operation. For instance, in case of a flood, the PFM can carry out rapidly equipment on site and help the population. The Motorized Floating Bridge has been chosen by several Armies (France, Italy, Switzerland, Malaysia), equivalent to more than 5000 meters of bridge.

## THE MOST EFFICIENT BRIDGE FOR TACTICAL OPERATIONS

- High ability for night operations
- High flow of heavy vehicles
- High level survivability
- Natural bank adaptability

### The 100m long bridge built in 30 minutes

Configuration	MLC**	Length	Crew***	Build Time
Bridge (9+2)*	80	100 m	33	30 min
Ferry (5+2)	80	50 m	21	20 min
Ferry (2+2)	40	20 m	6	10 min

\* (number of sections + access ramps)

\*\* the PFM is able to support MLC 96 class vehicles under certain conditions.

\*\*\* with outboard motors remote control system

## Technical Specifications

### Module

Length.....10.00 m  
 Width stowed.....3.60 m  
 Width deployed.....10.20 m  
 Height stowed.....2.10 m  
 Height deployed.....1.30 m  
 Weight.....10,500 kg  
 Track width.....4.00 m  
 Payload capacity of one module.....20 tons

### Access Ramp (long)

Length .....12.50 m  
 Track width.....4.00 m  
 Weight .....7,000 kg

### Access Ramp (short)

Length.....3.50 m  
 Track width.....3.50 m  
 Weight.....3,840 kg

## MAIN FEATURES

A PFM set includes carrier/launcher vehicles, motorized sections and embarkation/debarkation ramps. Rugged and reliable, the PFM has proved its operational capabilities in both military and disaster relief operations. The PFM is a low maintenance, reliable and robust wet gap crossing capability.

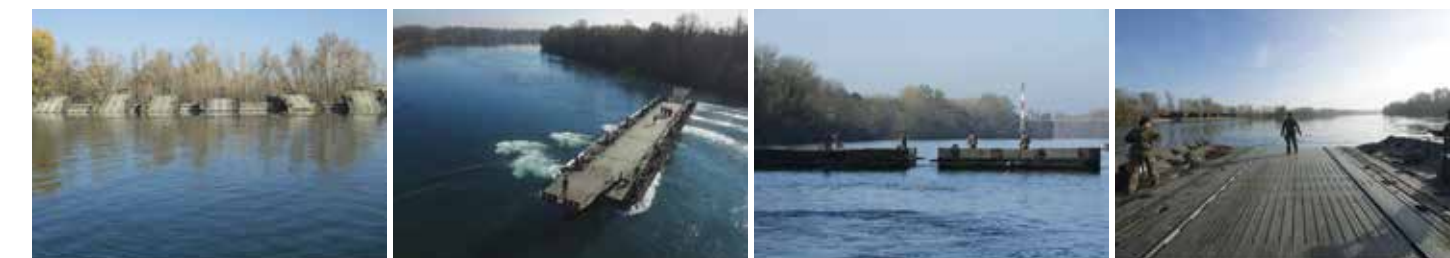
### Carrier / Launcher vehicle

- High mobility
- Integration of the customers preferred vehicle



### Motorized sections

- Fast and easy launching & retrieval
- Excellent on-water maneuverability
- River currents up to 3 m/s, shallow water



### Embarkation/debarkation ramps

- Bank height up to 3m
- Motorized operating ramps with angle adjustment
- Ramp with break angle

