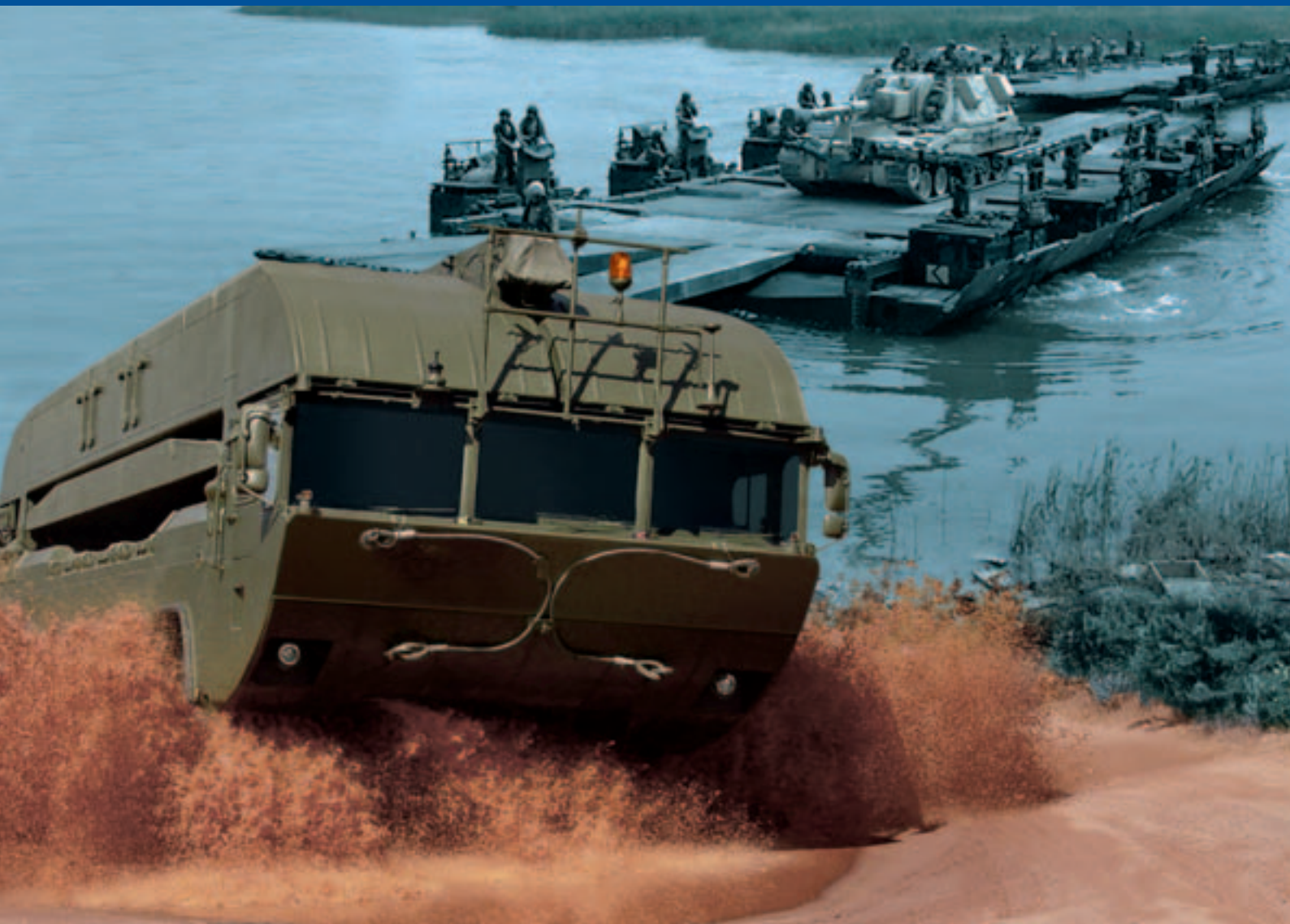


**M3**

# Amphibious Bridging and Ferrying System



**GENERAL DYNAMICS**  
European Land Systems

**GENERAL DYNAMICS**  
European Land Systems–Germany

**M3****M3**

## Amphibious Bridging and Ferrying System

In terms of loading capacity, construction time, cross-country and marine maneuverability the M3 is the world's most modern, most efficient and fastest Amphibious Bridging and Ferrying System. It is the result of more than 60 years of experience in development and production of mobile military bridging equipment. M3 has proven its superior performance and reliability under extreme climate conditions, in various trials, exercises, civil defense operations and in combat.

### M3 Superior Performance

- Construction of a 100 m (328 ft) bridge in approx. 15 minutes
- Maximum single load of MLC 85(T) / 132(W) for bridges and ferries
- 60% climbing capability
- Operable in water currents up to 3.5 mps (11.5 fps)
- Max. road speed of 80 km/h (50 mph)

Cross-Country Capability





M3 4-Bay Ferry



Coupling Procedure



M3 Bridge Configuration



## M3 Main Features

- Marine propulsion by two 360° turnable water pump jets
- 4-wheel drive and 4-wheel steering
- 6-speed automatic gearbox
- Differential and longitudinal locks
- Tire-pressure adjusting system
- Retractable axles

Winter Trials in Sweden



M3 Water – Land Transition

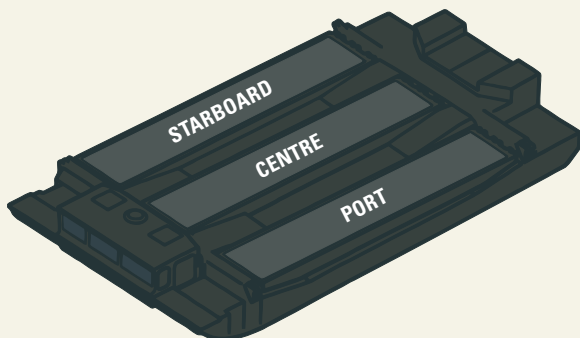


# M3 Customized Equipment Options

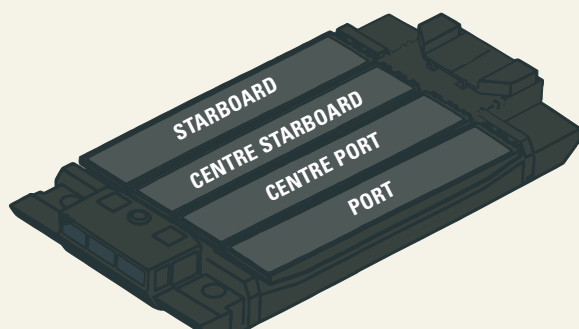
## Customized Equipment Options

- NBC-protected driver's cabin
- Light armored driver's cabin
- Tropical climate kit
- Winter climate kit
- Single-Raft Control
- Automatic fire control and extinguishing system
- Rear anchor
- Radio system
- Intercom system
- Computer-based training system
- Computer-based maintainer training
- Computer-based diagnostic system

## 3 Ramp Configuration



## 4 Ramp Configuration



## Computer-Based Training System



## Computer-Based Maintainer Training



# M3 Water Operation Configurations

**M3 2-Bay Ferry in Close-Coupling Configuration**



**M3 2-Bay Ferry in Open-Coupling Configuration**



**40 m M3 Bridge in Open-Close-Open-Coupling Configuration**



**100 m M3 Bridge in Open-Coupling Configuration**



# M3 Technical Data

## Vehicle

Overall length	13.03 m	42 ft 9"
Width (side pontoons folded) / Width (side pontoons unfolded)	3.35 m / 6.57 m	10 ft 12" / 21 ft 7"
Height (wheels in standard position)	3.97 m	13 ft 1"
Wheel base	6.50 m	21 ft 4"
Track width (front / rear)	2.40 m / 2.40 m	7 ft 11" / 7 ft 11"
Chassis clearance (wheels in standard position)	0.70 m	2 ft 4"
Vehicle classification		MLC 30

## Performance

Engine performance	298 kW	Diesel engine
Road traveling speed (maximum)	80 km/h	50 mph
Water traveling speed (maximum)	14 km/h	9 mph
Maximum climbing capability		60% = 31°
Maximum ditch crossing capability	1.00 m	3 ft 4"
Maximum vertical step capability	0.70 m	2 ft 4"
Turning circle diameter (4-wheel steering)	24.00 m	78 ft 9"
Travel range in land configuration	approx. 750 km	approx. 470 miles
Operation endurance in ferry configuration (fully loaded)		6.50 hours

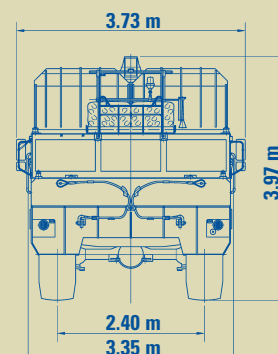
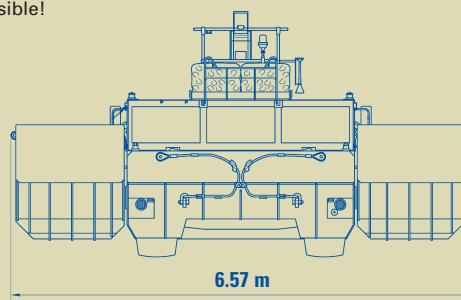
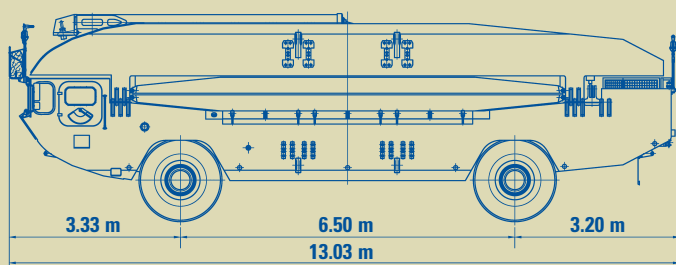
## Ferry Operation

Payload (maximum single load)	MLC 85(Tracked) / MLC 132(Wheeled)	
Operational as a multi-bay ferry		
e.g. construction time for 2-bay ferry	approx. 3 min.	max. 6 soldiers
Usable roadway width	4.76 m	15 ft 8"

## Bridge Operation

Payload (maximum single load)	MLC 85(Tracked) / MLC 132(Wheeled)	
100 m bridge requires		8 x M3
e.g. construction time for 100 m bridge	approx. 15 min.	max. 24 soldiers
Usable roadway width	4.76 m	15 ft 8"

Subject to technical alterations. Specific requests by the customer will be implemented if possible!



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