



ABS Hovercraft Ltd.



# The Award Winning ABS M10 Hovercraft.



The award-winning **ABS M10 Hovercraft** is the world's first proven, trialed and tested hovercraft in the 65' (20m) range that has adopted the technology of advanced FRP composite materials in its construction for both hull and superstructure. This, combined with twin standard diesel engine propulsion, provides the maximum thrust to weight ratio and rough weather capability of any hovercraft of its size.

The M10 hovercraft offers a useful disposable load of 22,000 lb (10,000 kg), a maximum speed of 50+ knots, an obstacle clearance of 39" (1.0m) and an on cushion sea state capability of 8' (2.5m) significant wave height.

Designed to full Lloyds Register marine classification rules, the M10 was initially engineered for military and paramilitary applications and so it is strong and robust with excellent impact resistance and zero corrosion or fatigue issues as normally seen by aluminum vessels. It can be configured to carry troops, standard 20' ISO containers, general cargo, or even wheeled and tracked vehicles. The large bow ramp allows fast embarkation of personnel or vehicles. It has a low radar and infra red signature and is supplied with a high-grade navigation and communication package.

The M10 is fully amphibious and can travel over land, reefs, sand banks, beaches, vegetation, and even ice fields where all conventional displacement craft would be forced to avoid or circumnavigate. Its use allows the operator to project power, support, medical and humanitarian aid inland, from the sea, a river or lake without the use of formal ports, slipways or other infrastructure. It can be used by search and rescue organizations, customs, drug enforcement or disaster relief agencies.

This robust pedigree also makes it ideal for passenger and general commercial applications and the standard variant can be configured with up to 60 passenger seats while the wide-body variant can accommodate up to 100 passenger seats. An ideal ferry for locations where water depth is too shallow or where formal infrastructure is not available.



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# Passenger, cargo and military variants.



With the demanding high capabilities of a true amphibious hovercraft, superior materials are required to ensure a lightweight yet tough and robust structure that will survive the requirements of operating over any surface and landing on potentially uneven surfaces. Unlike aluminum structures which, in order to meet the low weight requirements, are thin and subject to puncture, corrosion, fatigue failure and weak welded seams, the ABS M10 Hovercraft has an advanced FRP composite structure. This material is considered to be a homogeneous single piece construction which eliminates any inherent high-stress areas and provides a non-corrosive, highly impact resistant, zero fatigue and easy to repair vessel that can maximize the essential requirements of payload and performance capabilities.

Technology drives innovation and improvement and by utilizing these advanced composite materials, the M10 sets the standard for the Next Generation of hovercraft.

**Main Particulars:**

- Length (structure): 67'-7" (20.6m).
- Width (structure): 24'-6" (7.5m).
- Wide Variant Width: 29'-6" (9.0m)
- Cushion Height: 39" (1.0m).
- Max. Load: 22,000 lb (10,000kg).
- Max. Speed: 50 knots (57.5 mph).
- Range: 600nm @ 30 knots.

**Internal Dimensions:**

- Payload Bay Length: 30'-2" (9.2m).
- Payload Bay Width: 15'-9" (4.8m).
- Wide Variant Width: 20'-8" (6.3m)
- Payload Bay Height: 7'-4" (2.25m).

**Features:**

- High speed.
- Twin engine configuration.
- Walk-in engine room.
- Non-corrosive FRP structure.
- Low maintenance.
- Low radar & thermal footprint
- Operation up to sea state 4.
- Lloyds Register full class to:
- **100 A1 SSC ACV Group 3 HSC LDC LMC**
- Military or passenger variants.
- 22,000 lb (10,000kg) total load.
- Joystick operation
- Lifting points.



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