GHOSTWORKS
MARINE

GHOSTWORKS M90 Class

High-Speed | Modular | Shallow Draft | Carbon Fiber

The changing security environment requires assets that are smaller, more dispersed, lower signature, and optionally manned. GHOSTWORKS is leveraging years of carbon fiber boat-building excellence in the racing and commercial sectors and years of military and security experience to bring you this flexible, cutting-edge platform.

The M90 vessel is the next iteration of the M-Hull family of high-speed, shallow draft vessels. The signature M-hull design affords unprecedented efficiency, stability, modularity, extreme weather ops capability, and payload flexibility for nearly any mission. The extended hull length and raised top deck vastly increase the structural integrity of the M90 Platform, allowing for a wider variety of customizations and mission capabilities.

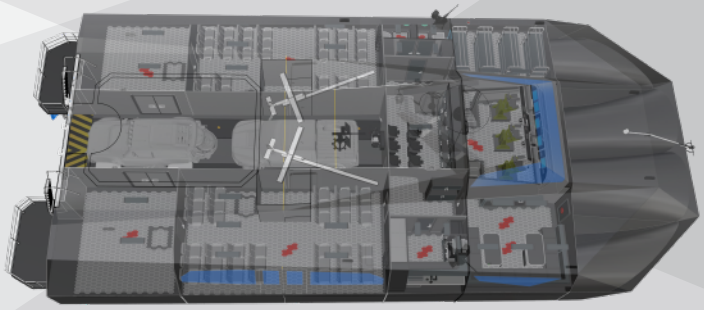
The M90's upgraded waterjet drive train increases maneuverability without compromising speed and allows for 400 hours of operations between routine maintenance.

In partnership with domestic and international partners, Ghostworks customizes the M90 platform for use in a variety of security, policing, search & rescue, logistics, and research operations.

The M90's lightweight carbon fiber hull technology breaks through the hull speed limit of conventional displacement craft. The patented M-Hull creates nonmechanical dynamic lift, creating more stability as speed increases and drag reduces, increasing fuel efficiency and payload fracture. This allows the combined performance of speed, payload, and shallow draft needed for effective littoral or extreme weather operations.

The carbon fiber sandwich construction insulates against the cold and does not expand or contract, providing superior cold-weather performance. The combat-proven electronics and weapons meet MIL-STD 810H requirements. The flexible payload capability allows the M90 to carry modular package containers. It can be armed with various Remote Weapon Systems and advanced sensor packages, and the configuration allows for quick and safe mission changes.

The monocoque design is minimally manned by a crew of Three (3) or Five (5). The M90's multi-purpose information center and multipurpose bays are rapidly configurable to control, launch, and maintain various uncrewed vessels.



The M90 can be configured for single-day operations or to house and support a crew of up to Fifteen (15) sailors for operations lasting Three (3) days without resupply.

The M90's Center Multi-Purpose Reconfigurable Launch Bay is designed for launching a recovering up to 11M vessels of vehicles allowing the M90 to act as a mothership. The carbon fiber hull is nearly maintenance-free as it does not corrode, expand, or warp, allowing the paint to last longer. This is ideal for deployment in remote areas.

Built with pre-impregnated carbon on a multi-use mold, the M90 can be delivered within Twelve (12) months of contract award, pending options.

Specification	Standard	Options
Overall Length	28m / 92.2 ft	28m / 92.2 ft
Overall Beam	12.3m / 40.5 ft	12.3m / 40.5 ft
Draft	.9m / 3 ft	.9m / 3 ft
Payload	30 MT	35 MT
Displacement	85 MT	90 MT
Fuel Cap.	18,000 Liters	20,000 Liters
Range	700 Miles @ 35 Knots	900 Miles @ 40 Knots
Max Speed	50 Knots	55 Knots
Armor	None	Kevlar/Carbon/Glass

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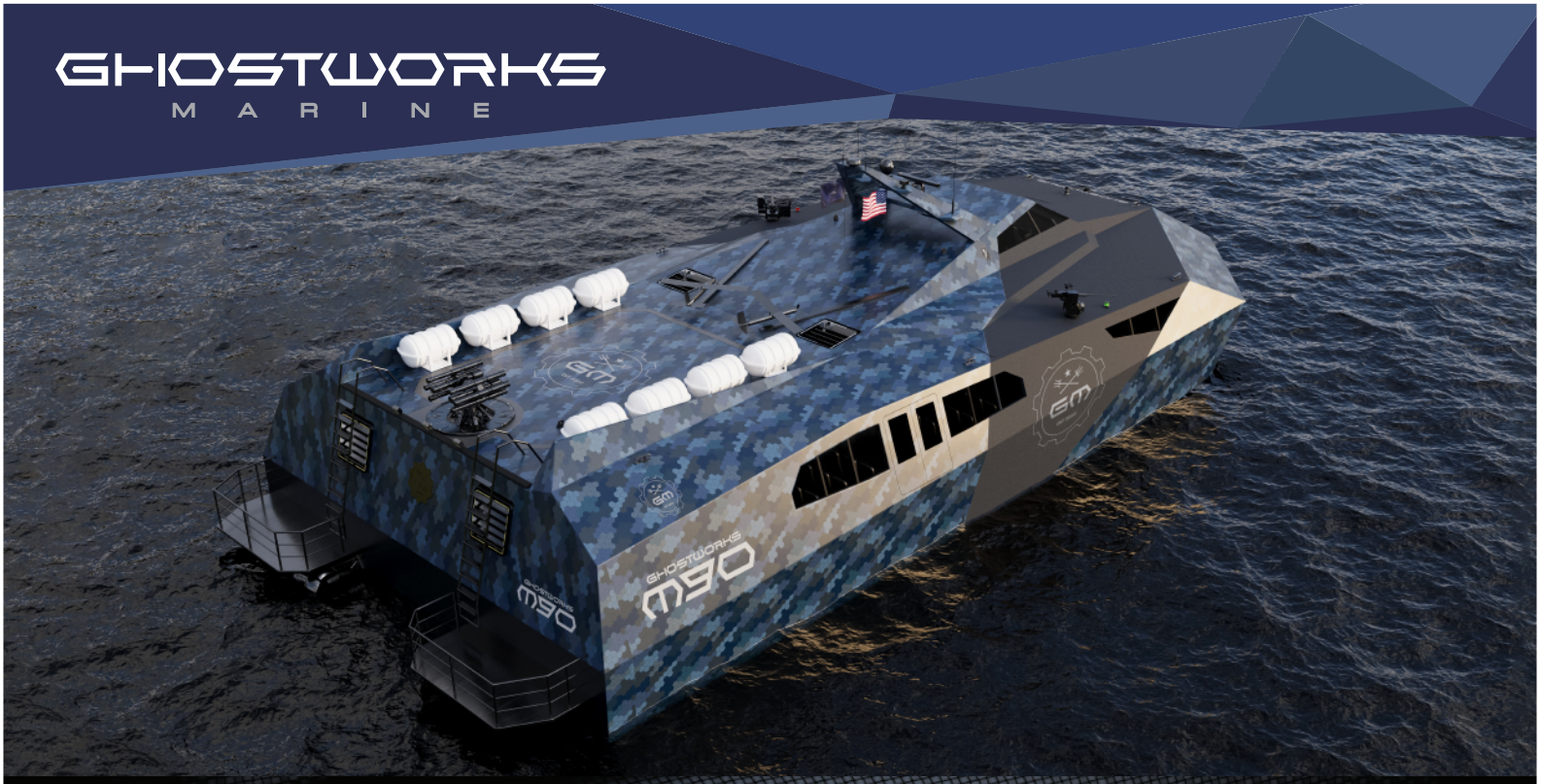
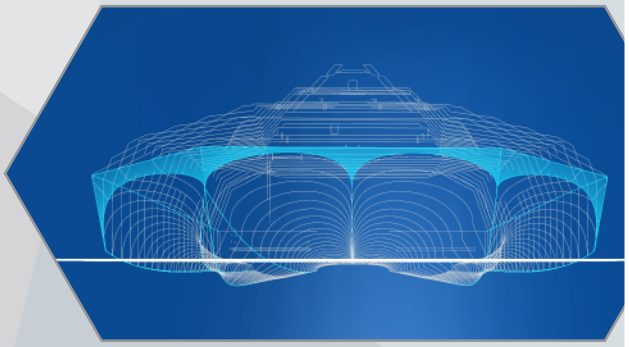


GHOSTWORKS M90 MODULES

SECURITY AND DEFENSE

The M90 fills the growing capability gap for rapid response littoral craft. The M90 low manning requirement and high-level systems integration allow it to accomplish various missions independently or as a key contributor to multi-domain forces.

- ***ISR*** - The M90 can be outfitted with a variety of EO/IR, SIGINT, ELANT, and Radars to monitor and collect on targets of interest.
- ***SOF Insertion*** - The M90's high-speed and deployable RHIB allows M90 to insert and extract small boat teams rapidly.
- ***UUV/USV/UAV Launch, Recovery, & Control*** - The M90's multi-purpose information center allows it to act as a mothership for uncrewed systems and serve as a C4ISR center.
- ***Weapons Systems*** - The M90 can be armed with a variety of remote weapons systems, including 50 caliber guns, APKWS rockers, and anti-ship missiles.
- ***Mine Clearance*** - Carbon Fiber construction combined with UUV control allows the M90 to be an effective, safe, and rapid-response anti-mine vessel.
- ***Rapid Response*** - At 50+ Knots, the M90 can respond to a crisis in a fraction of the time required by traditional marine forces.
- ***Search and Rescue*** – The M90's M-hull allows for operations in sea state five, empowering it to reach distressed vessels that other platforms cannot.