MARITIME ROBOTICS

Enabling ocean space autonomy



The Mariner X

Sea drone by Maritime Robotics

Uncrewed surface vessel (USV) for open ocean waters.
Robust and effective, designed for precise data acquisition, environmental monitoring, and surveillance.

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A modular deck
built for real missions

The Mariner X is designed to **integrate a broad variety of payloads**. It has a large back deck with railing, two moonpools, and fixed sensor positions, giving it the flexibility to support a wide range of tasks. It connects directly to existing **navigation and data systems**, keeping setup simple and reducing signal interference.

→ Optimized for patrolling and monitoring offshore structures such as pipelines, platforms and wells.

Designed for extended
offshore autonomy

Built with a rugged, polyethylene hull, the Mariner X withstands **harsh marine conditions** and requires **minimal maintenance**. A powerful propulsion system, large fuel capacity (up to 25 days), and a temperature-controlled interior make it suitable for **extended, unattended operations**.

→ Robots helping robots: Ideal support vessel for AUVs, ROVs, and robotic systems.

Smart operations
and autonomous capability

Equipped with Maritime Robotics' **Autonomous Navigation System**, the Mariner X operates remotely or fully autonomously, collecting real-time data and navigating safely. It includes **redundant propulsion** for reliability and can operate in confined or complex environments. In **formation mode**, it can follow a mother vessel and work as part of a coordinated fleet.

→ Acts as a true force multiplier in complex operations, expanding capability without expanding crew.



Specifications

FEATURE	DESCRIPTION	STANDARD	ADD-ON
Dimensions (LxWxH)	9000 mm x 2500 mm x 3000 mm	✓	
Dry weight	4500 kg	✓	
Draft*	600 mm	✓	
Hull material	Polyethilene (PE)	✓	
Back deck dimensions	5280 mm x 2020 mm	✓	
Back deck capacity	1200 kg	✓	
Moonpool wells	2	✓	
Fixed sensor positions	2	✓	
Propulsion	Hamilton Jet HJX29 and Yanmar 4LV230 with redundant twin electric pods	✓	
Power systems	12VDC, 24VDC, 230VAC	✓	
Standard fuel tank	2000 liters	✓	
Fuel capacity*	Up to 25 days	✓	
Speed alternatives*	12 kn max, 6 kn cruise, 3 kn survey	✓	
Bow thruster	Standard for precise slow-speed navigation	✓	
Sea State (Beaufort Scale)*	4 for survey, 6 for transit, 7 for survival	✓	
Autonomous & remote-control	Maritime Robotics **Autonomous Navigation System** & industrial remote	✓	
Vehicle Control System	VCS Rugged Laptop	✓	
Standard awareness suite	Camera / AIS class B / Radar	✓	
High-bandwidth communication	LTE (4G)	✓	
Additional communication links	Long-range radio / Starlink / Other over-the-horizon (OTH) services		✓
Enhanced Situational Awareness	Maritime Robotics **SeaSight** / AIS class A / VHF		✓
External control	Navigate via 3rd-party control software		✓
Formation mode	Operate several USVs following a mother vessel for scalable operations		✓
SeaCapture	Integrated software for real-time data acquisition and mission logging		✓
Additional generator	Boosted power capacity for advanced payloads		✓
Gyro stabilizer	Seakeeper system for stability in challenging conditions		✓
Rack mount VCS computer	For fixed shore-based operations		✓
Winch	Autocast SVP winch for instrument deployment		✓
Payload mounting system	Moonpool elevator or fixed gondola		✓
Various payload integrations	Modular sensor options for survey, inspection, support, and environmental monitoring. ISR optional.		✓
Certification	DNV-ST-0342		✓

** Depending on conditions and payload integrations.*