

# PRO:ZERO



USV RANGE

**10M PROZERO USV**

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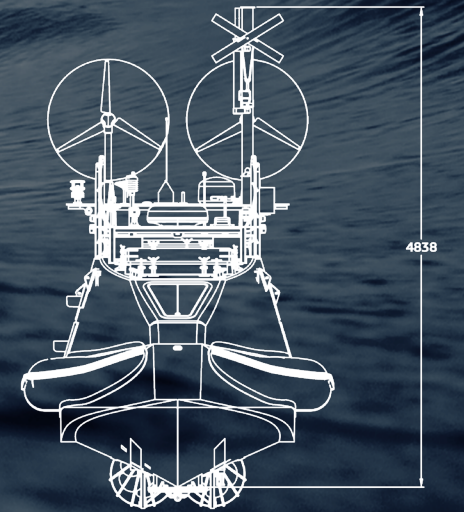
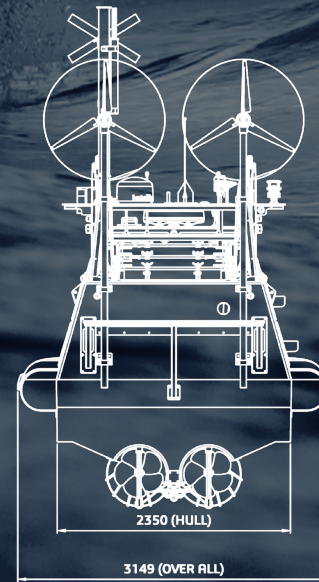
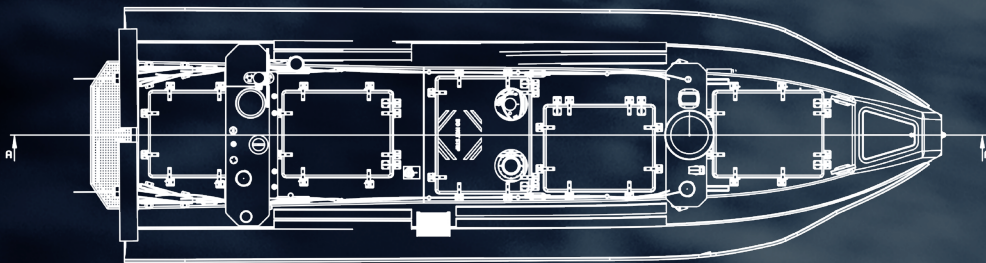
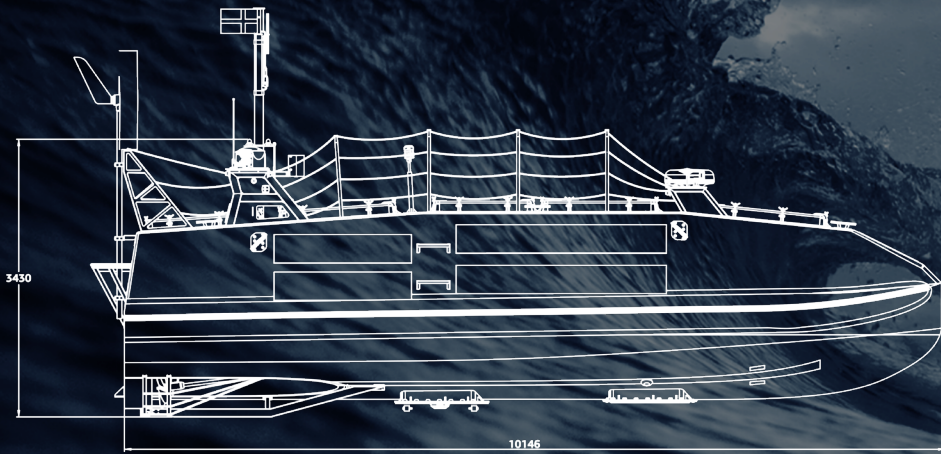
The ProZero 10M USV is a cutting-edge unmanned surface vessel, meticulously designed for robust performance and versatility. With an overall length of 10.5 meters and a hull width of 2.4 meters, this vessel combines compact dimensions with exceptional functionality. The total width measures 3.1 meters, accommodating a variety of equipment and operational needs. The design draft is set at 1.0 meter, ensuring optimal balance and stability, with a deck height from the keel of 2.4 meters.

The height above the waterline, including all masts, antennas, and equipment, reaches up to 4.0 meters, while the minimum height above waterline is 2.3 meters. For transportation purposes, the total height can be reduced to 3.3 meters by removing the GRP mast and turbines.

The ProZero 10M USV is equipped with a 3,200-liter fuel tank and features an advanced battery setup that includes 8 pieces of 12V batteries, ensuring reliable and long-duration operations. The vessel's lightweight is 8,966 kg, supporting a dead weight of 5,833 kg, which includes fuel and anchoring equipment. The displacement stands at 14,799 kg, indicating its substantial carrying and operational capability.









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## USV CAPABILITIES

The hull of the ProZero 10M USV is crafted from solid laminate for durability, with both the deck and internal structures utilizing composite materials for strength and lightness. The vessel's GRP structure is integral to its integrity, emphasizing the need for specialized maintenance and modifications with manufacturer consultation.

For operational efficiency, the vessel features double engines with advanced fuel supply management, including quick-close valves and filter selection valves, all integrated into the vessel control system. Bilge management is sophisticated, with each compartment equipped with both primary and high-capacity pumps, alongside level sensors for comprehensive fluid management.

The engine room benefits from efficient ventilation via the hydraulic oil cooler fan, essential for maintaining optimal operating conditions. Technical and payload compartments are outfitted with double dehumidifiers and dedicated AC units to ensure equipment functionality and longevity. Additionally, the vessel boasts five seawater intakes for cooling various systems, emphasizing the importance of regular maintenance for optimal performance. The vessel's adaptability is further enhanced by the ability to lower or remove masts and deck equipment.



## SAFETY SYSTEMS

Safety is paramount on the ProZero 10M USV, featuring a fixed firefighting system that encompasses aerosol generators, temperature sensors, and heat detectors across key compartments. This comprehensive system ensures rapid response to any fire incidents onboard.

Overall, the ProZero 10M USV represents a huge achievement in unmanned surface vessel design, offering both advanced technology, operational flexibility, and safety features for a wide range of maritime applications.

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