



DESMI MESH BOOM HD

Heavy Duty Mesh Barriers for Sargassum Diversion

PROVEN TECHNOLOGY



What is the DESMI MESH BOOM?

The DESMI MESH BOOM is the result of years of research and development, created in 2018, it is a revolutionary floating mesh type barrier of very high resistance and buoyancy, designed to divert and concentrate sargassum, efficiently protecting beaches, marinas and industrial facilities, cooling/desalination water sources, etc., with a useful life of more than 5 years of continuous operation.

Its design is based on a pair of Nautical Grids that allow the free passage of water and wind but retain any floating elements.

Its low weight, high tensile strength, and high buoyancy mean that the DESMI MESH BOOM can operate in rough conditions such as high waves and strong winds. It is NOT a NET! The Nautical Mesh maintains its size and shape of square edges of 2.5cm - 1".

Key Advantages:

- High operational efficiency in the presence of waves, currents and wind.
- Permeable nautical mesh, which allows the free flow of water and wind, reduces the accumulation of microorganisms.
- Respect for marine life: does not interfere with aquatic species or capture wildlife; it is not a net.
- Eco-friendly manufacturing: polystyrene and lead-free materials, resistant to corrosion.
- Lower anchoring and maintenance requirements compared to rigid wall barriers.
- Modular design allows for quick deployment, compact storage, and on-site repairs.
- Compatibility with sargassum harvesting systems, such as the DESMI SEA TURTLE family.



The Strongest Barrier on the Market

Containing and diverting sargassum has completely different requirements than a traditional containment barrier such as those used in Oil Spills, which have proven to be inadequate for this type of application. The success of the MESH BOOM lies in its nautical mesh and high buoyancy spherical floats that guarantee excellent wave tracking and resistance to the pressure created by the sargassum accumulation.

Based on international recommendations for permanently installed booms, DESMI floats do not use Polystyrene nor Lead.

DESMI MESH BOOMS are capable of withstanding strong shocks such as boats, jet skis, or even propellers without losing their flotation. In case of damage these will keep the mesh floating, preventing the loss of the barrier. Following DESMI Maintenance protocols, the barrier has a THREE-year Warranty!



To date more than 72,100 ft of MESH BOOM Booms have been provided! (Sep 2025)

Technical Specifications

- Double Nautical Mesh of 2.5cm / 1" opening and 70kN resistance, made of PVC coated polyester filaments, with high resistance to UV rays, salt water, H₂S.
- Standard section lengths of 15m / 50ft
- Heavy-duty spherical floats made of High-Density Polyethylene - HDPE filled with foam, have no polystyrene, 36 cm / 14", 16 pairs per section with stainless steel hardware.
- Low weight, easy to handle with high buoyancy, allow you to operate in waves up to 2m/6ft.
- Barrier tensile strength: over 6,000 kg / 13,200 lbs.
- ASTM Aluminum Slide Terminal Connectors (F 962) - allow for quick and easy installation of the barriers and their removal from the water.
- Cast iron ballast weights with stainless steel lock bolts and nuts.
- Stainless steel eyebolts or horseshoe type anchor points installed on the terminal connectors, 4 for each barrier section.
- Overall Height: 105cm / 42"
 - Draft: 75 cm / 30"
 - Freeboard: 30 cm / 12"

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