

USV MASSCLEANER

AUTONOMOUS, MODULAR, & **MULTI-SERVICE DRONE**
DESIGNED FOR A WIDE RANGE OF **MARINE POLLUTION**
CLEANUP OPERATIONS & MARITIME SERVICES.

This robust, large-scale marine drone collects waste and hydrocarbons, deploys safety measures, and quickly intervenes on any body of water. It operates effectively in port areas, coastal regions, and the open sea with agility and optimal efficiency against all types of marine pollution.

MASS CLEANER

SEAWORTHY
ROBUST (ALUMINIUM BUILD)
FULL ELECTRIC
SIZED FOR PROFESSIONAL SERVICES

DETECTION
& COLLECTION
OF SOLID WASTE

CONTROL MODES:
LINE-OF-SITE CONTROL
REMOTE CONTROL
FULL AUTONOMY

DETECTION
& COLLECTION
OF HYDROCARBONS
BLACK & GREY WATER
& FLOATING CHEMICAL PRODUCTS

DEPLOYMENT
OF ANTIPOLLUTION BOOMS

PORT, COASTAL, SHORELINE & OFFSHORE
& INLAND WATERBODY MAINTENANCE

VEGETATION & AQUATIC WEED CUTTING
JELLYFISH, SEWAGE DISCHARGE

MONITORING & SAMPLING
FIREFIGHTING

+ WE DEVELOP OR INTEGRATE
ANY CUSTOM SYSTEM

MULTIMODAL | AUTONOMOUS | SMART | SEAWORTHY



TECHNICAL SPECIFICATIONS

CONSTRUCTION

Material	Aluminium
Certified vessel	Bureau Veritas
Propulsion	2x10 kW (Pods)
Batteries	40 kWh
Max Speed	5,5 kt

DIMENSIONS

Length	5,5 m
Width	2,4 m
Light Displacement	≈ 2 t
Max Draft	0,85 m
Road-Legal Dimensions	yes

CLEANING CAPACITY

Liquid waste tank	800 l
Solid waste container	500 kg
Estimated autonomy (Mixed)	8,5 h
<i>(Extendable on request)</i>	
Range @5kt	10 NM
Pollution cleanup speed	0-2 kt

Indicative Values — Some characteristics can be adjusted to the specific needs of each project.



Robust, lightweight, and autonomous

Made of aluminum, it can be remotely operated in sight or from a distance, especially for operations on the open sea, or it can operate completely autonomously. Thanks to area scanning, it can change course upon detecting an object, knows how to follow a defined route, and complies with Colreg navigation rules.

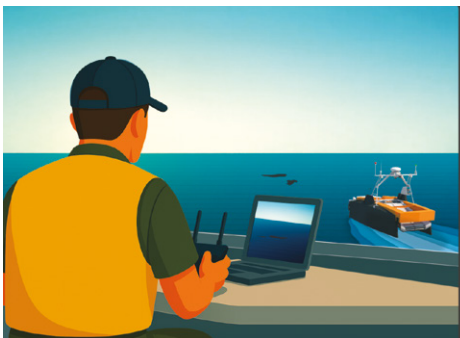
Agile and versatile

Amphidrome — capable of moving equally forward and backward, it offers exceptional versatility, allowing instant switching between operating modes.

Modular, adaptable to different missions

Designed for intensive use in challenging maritime environments, the MASS CLEANER is fully modular.

It can be equipped with various interchangeable tools according to needs: solid waste removal, oil spill collection, invasive algae harvesting (such as sargassum, green algae, etc.), deployment of anti-pollution booms, firefighting, area and water quality monitoring, and much more — we can develop or integrate any custom system.

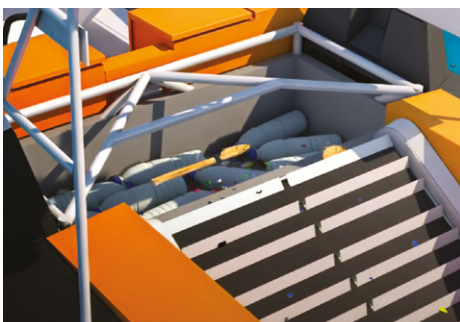


Deployment and Handling

Operational at Sea: capable of working on the open sea and performing cleanup with waves up to 1 meter.

Control Modes: line-of-sight operation, remote operation, full autonomy

Handling: on trailer (road-legal size), port crane, offshore platform crane.



Main applications

- Oil spills, hydrocarbons, black water, grey water, sewage discharge, floating chemicals...
 - slick Detection
 - collection with skimmer
 - transfer (drone tank)
 - unloading on land or at sea

- Solid Waste, vegetation, and reaping, algae and sargassum, jellyfish...
 - waste detection
 - collection on conveyor and unloading by crane
 - onboard drone storage

- Barrages
 - deployment and handling of booms
 - collection of oil within the boom area

- Firefighting
 - fire hose (for extinguishing ships or supporting a burning unit...)

- Quays and Offshore Structures
 - cleaning, removal of nets or unwanted elements...

- Sampling and monitoring
 - test tube with winch
 - camera and screens (thermal), radar, AIS...

