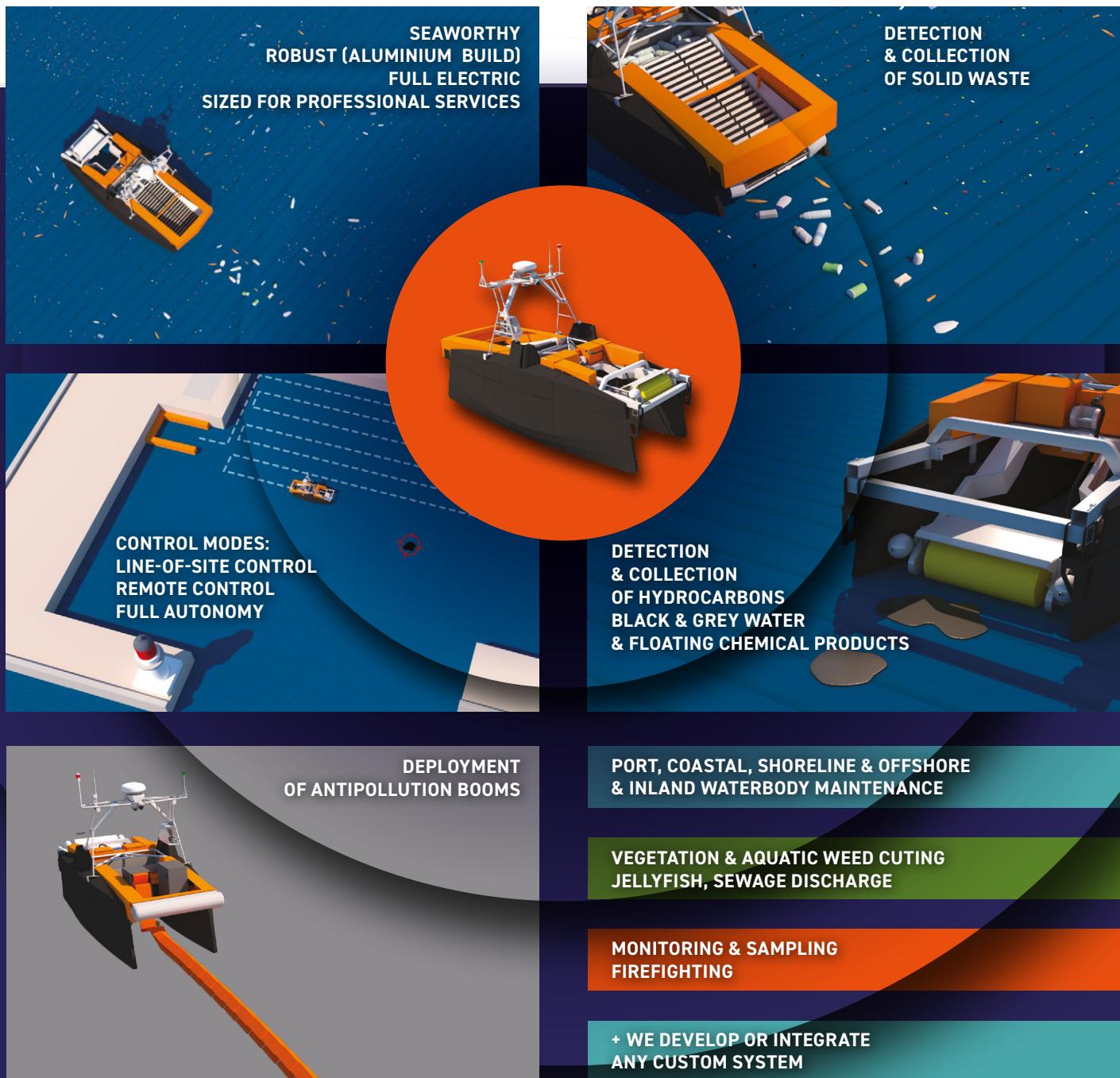


USV MASSCLEANER

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



MULTIMODAL | AUTONOMOUS | SMART | SEAWORTHY



TECHNICAL SPECIFICATIONS

CONSTRUCTION		DIMENSIONS		CLEANING CAPACITY	
Material	Aluminum	Length	5,5 m	Liquid waste tank	800 l
Certified vessel	Bureau Véritas	Width	2,4 m	Solid waste container	500 kg
Propulsion	2x10 kW (Pods)	Light Displacement	≈ 2 t	Estimated autonomy (Mixed) (Extendable on request)	8,5 h
Batteries	40 kWh	Max Draft	0,85 m	Range @5kt	10 NM
Max Speed	5,5 kt	Road-Legal Dimensions	yes	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.

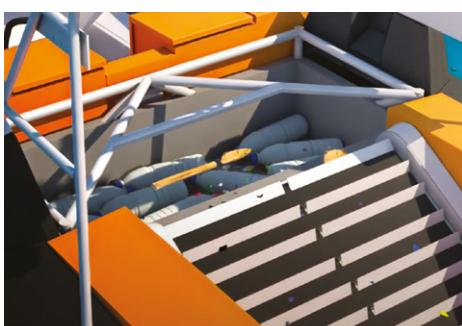


Deployment and Handling

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...

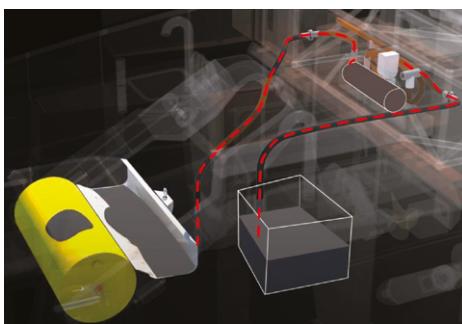
- waste detection
- collection on conveyor and unloading by crane
- onboard drone storage

- 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...

