

EverClean Inspection Robot

INTELLIGENT SOLUTIONS

SOFTWARE
// ROBOTIC SERVICES
OCEAN VEHICLES

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Comprehensive Hull Inspection

A first-of-its-kind hybrid solution combining the hull crawling and underwater flight capabilities of the EverClean hull cleaning robot with multiple integrated ultrasonic metal thickness sensors and cameras to create a powerful new underwater inspection tool.



EverClean Inspection Robot Technical Data

Expanding the inspection capabilities of to provide a complete hull inspection and change detection tool.

Improve Maintenance Decisions

- Comprehensive data collection enables predictive maintenance analytics.
- Ultrasonic thickness inspection enhances detection of hull changes.

Streamline Maintenance Efforts

- Notice small issues below the water line before they become major problems.
- Save money by reducing time in dry dock with targeted repairs.

Enhance Change Detection

EverClean Inspection Robot enhances long-term analysis of:

- Ship performance to hull condition relationship
- Fouling rates
- Coatings performance
- Corrosion
- Hull thickness, roughness, deformation, or damage



Specifications subject to change without notice.

LENGTH	1075 MM
WIDTH	700 MM
HEIGHT	256 MM
DRY WEIGHT	35 Kg
COVERAGE RATE	1.0 M/s
NAVIGATION POSITIONING	Greensea IQ OPENINS
COMMAND & CONTROL SOFTWARE	OPENSEA Greensea IQ Workspace user interface

EVERCLEAN INSPECTION ROBOT FEATURES

- Single person portable
- Efficient, scalable, cost effective, and convenient
- Coating agnostic; tested and validated for use on all coating types
- Designed for coating condition survey, hull plating thickness measurement
- Inspection of niche areas such as sea-chest or tunnel thrusters
- Data collection integrates with EverClean IQ to deliver a complete picture of vessel health

EVERCLEAN INSPECTION ROBOT COMPONENTS

Attractor

- Non-magnetic hull attractor
- Operational flexibility
- Detach for free-flight inspections

Modular Inspection Deck

- 2x 2.25 MHz Ultrasonic probes in articulated mounts
- 1x Downward HD camera and lighting system
- Video coverage rate: up to 0.75 m/s
- Programmable sample intervals for UT thickness readings

High Performance Sensor Suite

- Optimizes autonomy, navigation & hull intelligence
- Standard fwd/aft high-definition cameras
- Obstacle detection, avoidance & hull mapping
- High-resolution multi beam sonar

Specialized Treads

- Maximizes operational performance
- No damage to coatings

Advanced Autonomy

- Powered by Greensea IQ's OPENSEA
- Proven technology used by the Defense industry