



# GREENSEA

# CRAWLER

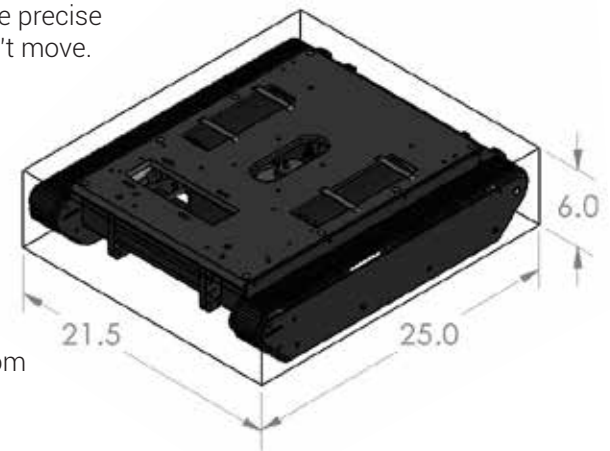
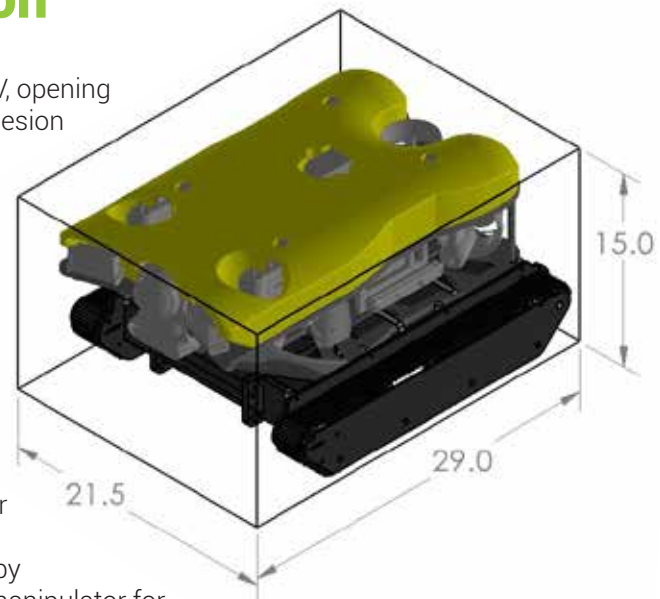
## Easy-to-Operate Crawler Enables Robotic Inspection and Intervention

The Greensea Crawler mounts quickly to the Videoray MSS Defender ROV, opening up a new realm of capabilities for the ROV. With low pressure suction adhesion and rubber tracks, the Greensea Crawler equipped ROV can safely transit ship hulls, tank walls, or other hard surfaces to perform inspection and intervention tasks. By retaining both free flying and crawling capabilities, as well as a non-magnetic method of attachment, this technology offers greater flexibility of application being able to crawl on steel and aluminum vessels, concrete walls, or polycarbonate tanks and then fly to a new point of interest. With Greensea's proven control technology, the operator can easily pilot the ROV into position, attach to a surface in a matter of seconds and begin crawler operations.

The tracks and adhesion force create a level of stability and precision control not achievable by a vehicle flying in the water column. Underwater Inspection in Lieu of Drydocking (UWILD) inspectors can produce higher quality videos with the benefits of a "fixed" camera position not buffeted by currents. Explosive Ordnance Disposal (EOD) technicians can operate a manipulator for intervention tasks with the security of a stable base. Engineers can determine precise measurements from 3-D laser scans with confidence that their sensors didn't move.

### *New Capabilities Coming Soon*

The Greensea Crawler can be upgraded to incorporate a FOG-based inertial navigation system (INS) and advanced control software. By merging INS and feature-based sonar navigation into the Crawler, Greensea's technology will be able to provide a previously unavailable level of precision positioning and control for an ROV on a ship's hull. Coupling this precision navigation capability with task automation, the system will be able to be quickly programmed to execute automated inspection tasks, freeing the operator from active piloting actions.



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## Specifications

### Requires Greensea Professional Workspace

**Depth Rating:** 30 m

**Dimensions:** 25 in x 21.5 in x 6 in (635 mm x 546 mm x 152 mm)

**Weight (air):** 39.6 lb (18 kg)

**Buoyancy (salt water):** 8 lb (3.2 kg)

**Min. Speed:** 1.2 in/s (3 cm/s)

**Max. Speed:** 14 in/s (36 cm/s)

**Attractive Force:** 25 lb (114 N)

**Propulsive Force:** 15 lb (120 N) (Dependent on Coating Type and Fouling Level)

**Ground Clearance:** 0.9 in (23 mm)

**Shipping Dimensions:** 33.4 in x 28.4 in x 17.7 in

**Shipping Weight:** 82.5 lb

**Navigation Capability:** Relies on ROV navigation sensors.

**Crawling Surface:** Optimized for antifouling bottom-paint (copper ablative and self-polishing)

**Turn Radius and Maneuverability:** 0-radius capable

**Operating Temperature:** 2° – 30° C (35.6° - 86° F)

**Power Requirements:** ~400W from VideoRay MSS Defender

**Integration to ROV:** 4 bolts, 2 electrical connections, and 6 lb ballast

**Maximum Current:** 1.5 kts, coating and fouling dependent

Specifications subject to change.



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