



Extended Reach -
Robot cleans above
and below the
waterline



**Versatile Fouling
Removal** - Effectively
targets light slime to
heavy animal fouling



**Environmentally
Friendly** - Reduces
transportation of
invasive species



Gentle on Antifouling
- Utilizes non-damaging
technology for cleaning



**Accessible Anytime,
Anywhere** - Onboard
cleaning capabilities



**Efficiency Through
Cleaning** - Reduces
fuel consumption and
GHG emissions



**Flexible Cleaning
Solution** - Fewer
restrictions on when
and where



Easy to Control -
Streamlined operations

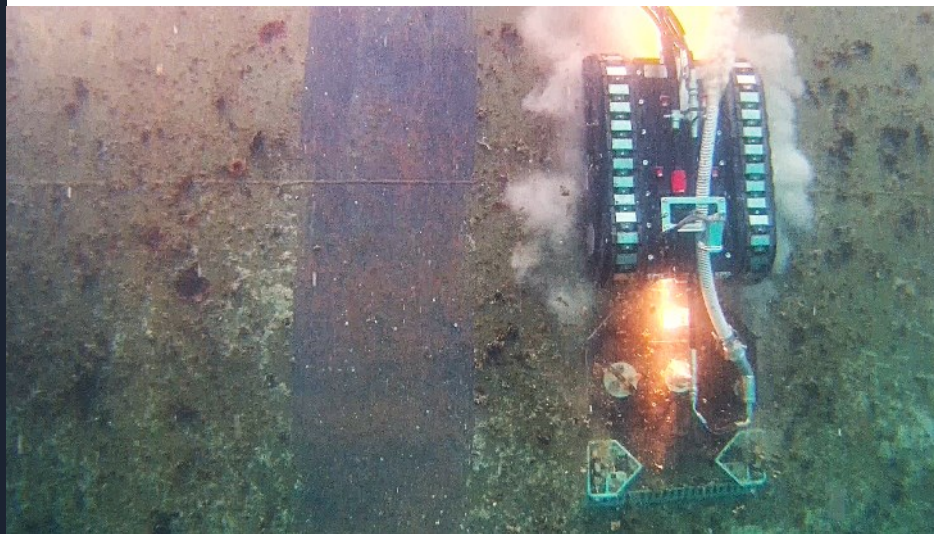
Robotic Antifouling

Biofouling management made easy

Introducing CLIIN Robotics' Antifouling System: a groundbreaking operational solution for hull grooming (proactive) and cleaning (reactive), enhancing sustainability and efficiency in vessel operations. As both an on- and offshore solution, it's accessible for repeated usage on board. Designed to navigate seamlessly through strong currents both above and below the waterline, it ensures thorough grooming/cleaning without disrupting operations.

Versatile and effective, our system targets various levels of marine biofouling, ranging from light slime to heavy animal fouling, optimizing hull performance across diverse conditions. By utilizing proven cavitation or brush technology, our solution is not only environmentally friendly but also cost-effective. Proactive maintenance, such as keeping hull surfaces smooth, has been proven to reduce fuel consumption, resulting in lower greenhouse gas emissions and minimizing the transfer of invasive species.

Accessible anytime, anywhere, our on-demand cleaning capabilities are operated remotely with ease and safety, for smooth and user-friendly operations.



Technical Data

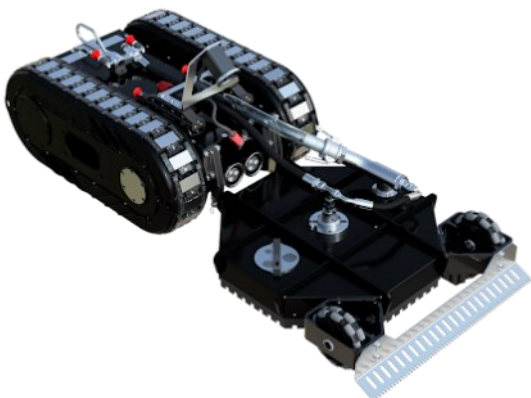
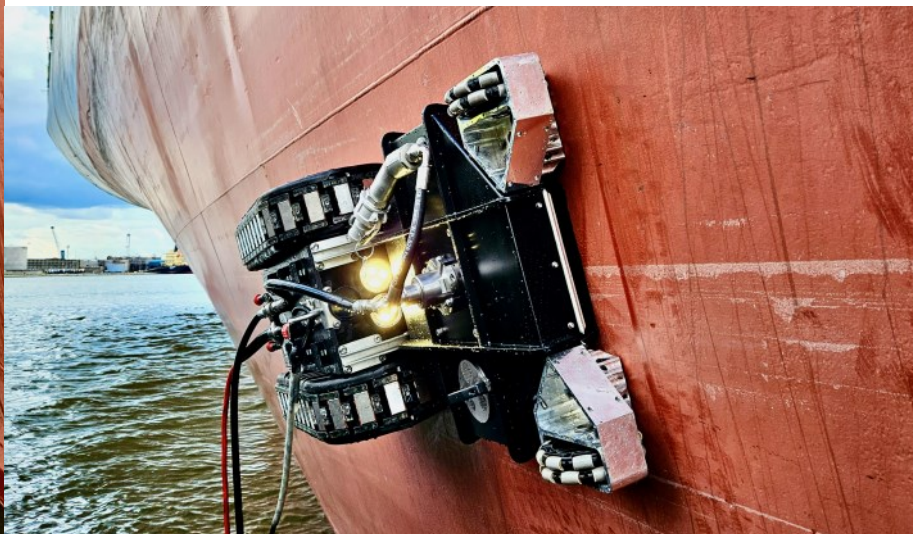
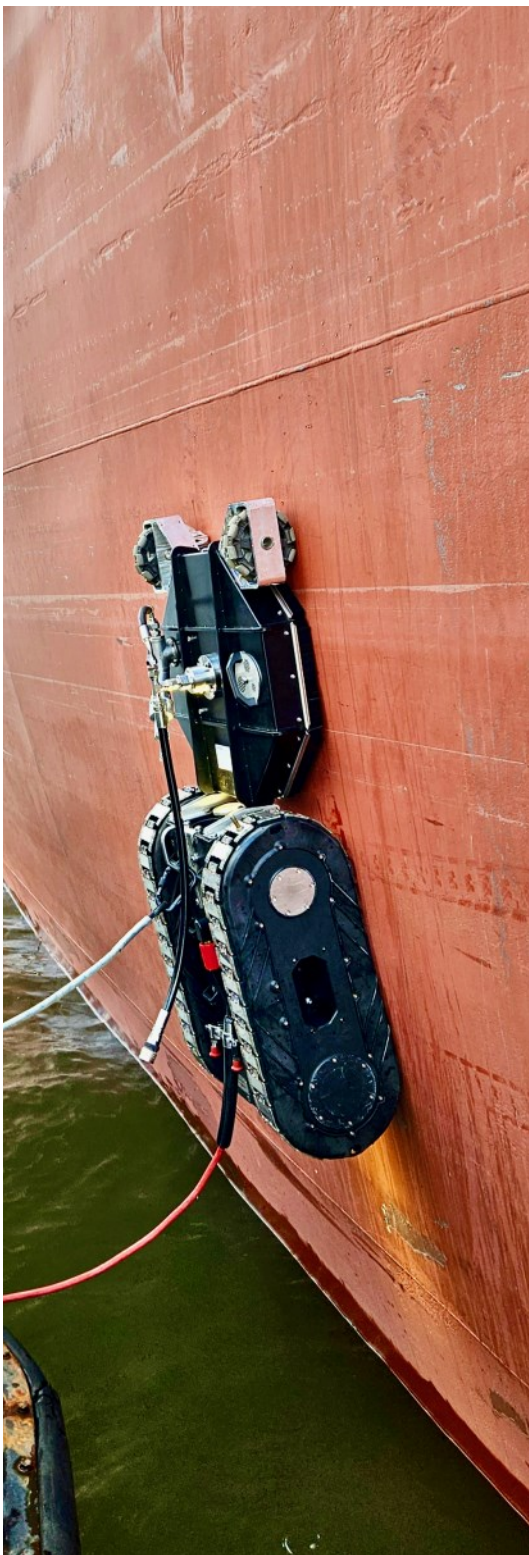
- Cleaning ability: 200 - 400 m²/h
- Weight: 89 kg + Hull Tool
- Dimensions of the Robot:
L: 747 mm, W: 562 mm, H: 310 mm
- Powered by 100-240V, 13A+, 50-60 hz
- Robust design of non-corrosive materials
- Proven reliability with over 4,000 hours of continuous underwater operation

Robotic Antifouling

Key Features Robotic Antifouling

- Equipped with permanent magnetic tracks for effective operation both below and above the water line.
- Operable even in strong currents
- Helps reduce fuel consumption by maintaining smooth surfaces, resulting in significant cost savings and improved operational efficiency.
- From light slime to heavy animal fouling, our system effectively targets and removes marine growth, ensuring optimal hull performance in various conditions.
- Can be installed directly onto vessels, ensuring accessibility and flexibility for maintenance operations whenever and wherever needed.
- Can be used for hull grooming (proactive) and cleaning (reactive).
- Gentle way of cleaning.
- Integrated camera system for real-time monitoring and documentation.

SIMPLE • SAFE • SUSTAINABLE



„CLIIN Robotics' innovative Robotic Antifouling system seamlessly operates above and below the waterline, even with strong currents. It efficiently removes marine biofouling from light slime to heavy animal fouling, optimizing sustainable hull performance while minimizing fuel consumption and operational costs.“