

Hull Cleaning and Repair

Phoenix's ship repair division consists of experienced commercial divers that perform underwater hull cleaning and repairs for commercial and military customers alike. Our Certified Diver Technicians carry out the following hull related activities:

- Hull Cleaning (site permitting)
- Hull Coating (inspection and treatment)
- Hull Inspection & Thickness Gauging
 - Includes a technical report containing a detailed assessment of the hull's general condition as well as the state of the paint coating, cathodic protection, and any recordable damages
- Hull Repair
- Clad Welding of Cavitated Areas
- Crack repairs using Cofferdams
- In-Water Sea Chest Installation
- Pipe/flange Repairs or Replacements
- Renewal of Damaged Hull Plating, large or small areas

Permanent Underwater Repairs

Phoenix has an American Bureau of Shipping (ABS) approved, Class A wet underwater fillet Welding Procedure Specification for ASTM A 131 and Group II steels of the American Welding Society's D1.1 structural welding code. With this procedure, Phoenix can perform permanent underwater weld repairs to classed vessels and structures.

Contact us to learn more

www.phnx-international.com

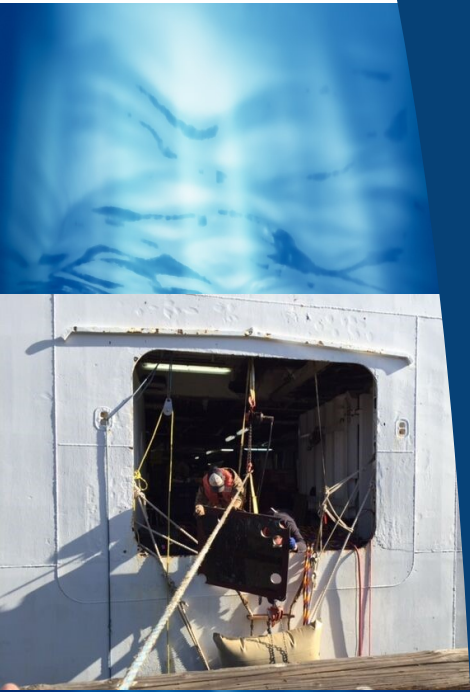
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Hull Cleaning

Fuel consumption is the single largest operating cost of a vessel, and hull efficiency is key to a vessel's economic success. Fouling of ship hulls by shellfish, seaweed, sea moss, barnacles or tubeworms, can result in clogging underwater intakes, covering antifouling paint, and creating a thick layer on the ship's hull. As a result of the build-up of marine fouling, ships can experience increased drag, causing an unfavorable impact on a vessel's hydrodynamic performance leading to decreased speed, power performance and fuel consumption. Additional effects include turbulence, cavitation, and noise, which can affect the performance of sonars, speed logs and other hull mounted sensors.

Routine hull cleaning can also help ship operators combat early stage fouling and the spread of invasive species. Our expert divers use approved and patented hull cleaning machines to remove biological roughness or fouling to restore performance and speed. Our advanced cleaning techniques and equipment ensure that no damage is done to anti-fouling systems, including silicone and other soft-coated paints.

Mini-Pamper Vehicle

The mini-pamper vehicle is a versatile, compact hull-cleaning machine capable of removing hull fouling from a variety of coatings, including low surface energy coatings typically used on military and commercial vessels. It is fitted with two counter-rotating brushes that create a suction force of several hundred kilograms on the hull. With this force, a stable platform is created that can be driven by the diver/operator and steered over the hull while the brushes glide over the surface without damaging the coating.

Partner Network & Support Facilities

Phoenix diving teams have rapid response capabilities to any port across the globe. Additionally, we have partner network and support facilities in the following locations:

Cape Town, South Africa | Cartagena, Columbia | Curacao |
Manama, Kingdom of Bahrain | Rotterdam, The Netherlands |
Valparaiso, Chile



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ISO 9001