

Rudder Repair

A ship's rudder can be prone to damage, erosion, and corrosion, resulting in costly repairs to or replacement of this integral part of the ship's underwater navigation equipment. Phoenix's ship repair division's experienced commercial divers perform modern, class approved underwater rudder repairs on a regular basis.

Our certified divers can carry out the following rudder related activities:

Rudder Repairs

- Rudder Blade Installation, Repair or Removal
- Rudder Clearance Measurements
- Rudder Stock Installation, Repair, or Removal
- Permanent Weld Repairs for Corrosion or Erosion Damage
- Shaft Wrap
- Underwater Crack and Damage Inspection and Repair
- Emptying Flooded Rudders
- Drain Plug Replacement

Stabilizer Repairs

- Fin Stabilizer Repair
- Rudder Flap Repair or Isolation
- Rudder Seal Repair or Replacement
- Rudder Stabilizer Crux Repair

Contact us to learn more

www.phnx-international.com

985.399.0606—Bayou Vista, LA | 954.523.4038—Ft. Lauderdale, FL

281.815.8050—Houston, TX | 301.341.7800—Largo, MD

757.855.7516—Chesapeake, VA | 808.486.6595—Aiea, HI

619.207.0871—San Diego, CA | 228.731.7898—Stennis Space Center, MS





Detecting Abnormalities

Abnormalities on the weld joints, loose bolts, and cracks on the rudder or rudder plate can severely affect the functionality and performance. Early detection and repair are key to preventing the further expansion of an existing problem.

Phoenix divers start by taking nondestructive measurements in and around the keyways of the fractures before initiating any repair. Depending upon the location of the damage, ballasting can offer a dry environment for permanent repairs to take place under the direct supervision of the classifying society.

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 D1.1 structural welding code. With this procedure, Phoenix can perform permanent underwater weld repairs to classed vessels including:

- Eroded rudder weld seams
- Mechanical repairs to Hi-Lift rudders

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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