

An underwater photograph showing divers working on a large structure, possibly a ship's hull or a large pipe. The scene is dimly lit with blue and green tones. A diver in the foreground is wearing a yellow and blue helmet and a black wetsuit. Another diver is visible in the background. Various cables and equipment are attached to the structure.

RAPID
COST-EFFECTIVE
WORLDWIDE
UNDERWATER SOLUTIONS



SUBSEA SOLUTIONS
A L L I A N C E



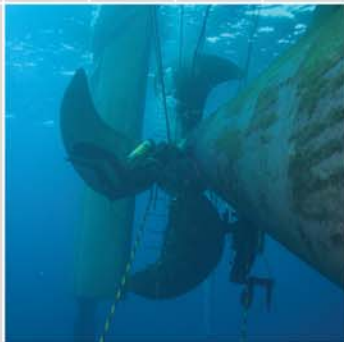
SUBSEA SOLUTIONS
ALLIANCE

TRIDENT BV
The Netherlands • Malta

MIAMI DIVER INC
Miami • Panama • Curacao

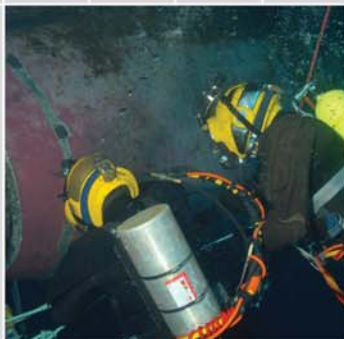
ALL-SEA ENTERPRISES LTD
Vancouver • Great Lakes • Atlantic

PARKER DIVING SERVICE
Los Angeles



The SUBSEA SOLUTIONS ALLIANCE provides the fastest response time and the most cost effective and innovative underwater ship repair solutions, worldwide. Bringing together the resources and expertise of leading companies in underwater ship repair, we provide you with high quality class approved service wherever your ships are.

Our team provides factory trained service personnel and specialized equipment to carry out maintenance or highly specialized repairs underwater, anywhere in the world. The SUBSEA SOLUTIONS ALLIANCE was created to keep ships in operation longer!



RAPID COST EFFECTIVE UNDERWATER SOLUTIONS

-  Propeller Straightening Repair & Modification
-  Azimuthing and Tunnel Thruster Replacement & Repairs
-  Stern Seal Replacement & Repair
-  Machinery Replacement & Repair
-  Permanent Shell Plating Replacement & Repair
-  Underwater Maintenance and Inspection Services



UNDERWATER MAINTENANCE AND INSPECTION SERVICES

The SUBSEA SOLUTIONS ALLIANCE, as full service underwater ship maintenance specialists, continue to provide the following underwater maintenance and inspection services, worldwide:



In-Water Survey SOLUTIONS:

- Underwater examinations for extension of Class
- Pre-purchase, pre/post charter surveys
- Pre and post dry dock inspections
- Damage assessment inspections
- Hull coating inspections

Propeller Polishing SOLUTIONS:

- Multi-stage micro-polishing of all surfaces
- Video or still camera inspection of propeller before & after polishing
- Detailed written report with photographs (pre & post polishing) and of any anomalies sighted during the general inspection



Hull Cleaning SOLUTIONS:

- Cleaning performed in hours using hydraulic multi-brush systems (including cleaning of new non-polluting low surface energy coatings)
- General inspection of hull and appendages

Non-Destructive Testing SOLUTIONS

- Ultrasonic thickness measurement
- Ultrasonic shear wave (weld flaw & crack detection)
- Magnetic particle (crack detection)

Valve Repair SOLUTIONS:

- Large stock selection of intake blanks and discharge plugs
- Fabrication of custom blanks in hours





UNDERWATER STERN SEAL REPLACEMENT & REPAIR

The SUBSEA SOLUTIONS ALLIANCE provides rapid, factory authorized underwater stern seal repairs worldwide. TransHab is a lightweight, inflatable habitat that is fitted around the stern seal to provide a dry environment in which repairs are carried out.



Professional technicians trained and certified by the major seal manufacturers carry out replacements and repairs at anchor or dockside. The SUBSEA SOLUTIONS ALLIANCE offers complete rebuilds, including the bonding of new seal rings underwater, using TransHab.



The SUBSEA SOLUTIONS ALLIANCE Underwater Stern Seal Replacement & Repair Services Include:

- Lip seals - dry repair and replacement of complete systems. Seal ring bonding
- Face seals - wet repairs and replacement (Deep Sea, Cedarvall)
- Controlled Pitch blade palm seal replacement
- Bow/Stern thrusters - shaft seal, blade palm seal, gear case seal replacement
- Stabilizers - fin shaft seal, crux replacement
- Stern tube sealing to facilitate inboard repacking of water lubricated stern seals



UNDERWATER PERMANENT SHELL PLATING REPAIRS

The SUBSEA SOLUTIONS ALLIANCE provides fast response for underwater permanent shell plating repair needs worldwide. Using specially designed cofferdams & hyperbaric chambers, defective shell plating sections can be replaced underwater by class approved permanent dry welding. When necessary, custom fabrication of habitats is carried out on-site.

In addition the SUBSEA SOLUTIONS ALLIANCE has certification for proprietary wet welding procedures accepted as permanent repairs. Underwater welding services include:

- Dry weld permanent repair of shell plating and appendages
- Dry weld installation and replacement of hull apertures
- Wet weld temporary and permanent repairs
- Anode installation



UNDERWATER MACHINERY REPLACEMENT & REPAIR

The SUBSEA SOLUTIONS ALLIANCE provides quality technical repairs and complete replacement of underwater machinery, in both wet and dry environments, using lightweight cofferdams and habitats. We offer fast response worldwide for your underwater repair needs.

The SUBSEA SOLUTIONS ALLIANCE underwater machinery replacement & repair services include:

- Bow/Stern Thruster internal repairs and complete unit replacement
- Stabilizer crux internal repairs and complete fin & flap replacement
- Azimuth drive internal repairs and complete unit replacement
- Becker rudder repairs and component replacement
- Transducer replacement (echo sounder, speed log)
- Impressed current cathodic protection component repair and replacement



UNDERWATER PROPELLER STRAIGHTENING AND REPAIR

The SUBSEA SOLUTIONS ALLIANCE provides fast response worldwide for all underwater propeller repair & maintenance requirements. The team offers you technicians who are qualified to accurately assess propeller condition and determine the best repair solution to maximize propulsive efficiency.

Our certified propeller technicians perform sophisticated, shop quality, underwater propeller repairs and design modifications.

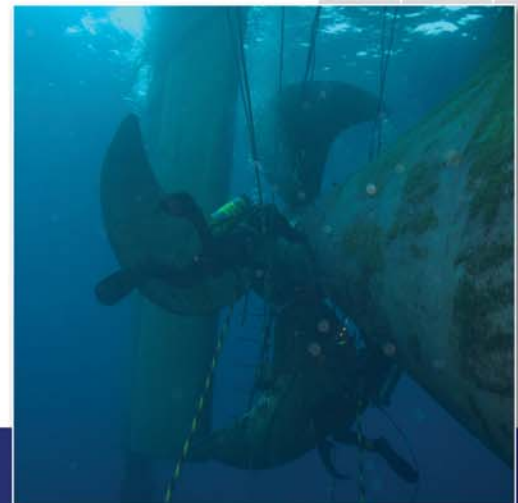
The SUBSEA SOLUTIONS ALLIANCE Underwater Propeller Repair Services include:

Repair SOLUTIONS:

- Straightening large bends
- Removal of damaged blade sections
- Crack repair and propagation control
- Restoration of hydrodynamic edge contours
- Hydrodynamic and static balancing (calculations on-site)
- Replacement of C.P. blades and blade seals

Design Modification SOLUTIONS:

- Pitch and camber alteration
- Diameter and blade area reduction
- Correction of propeller induced engine overload
- Contour modification to eliminate cavitation
- Edge modification, including anti-singing edge correction







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