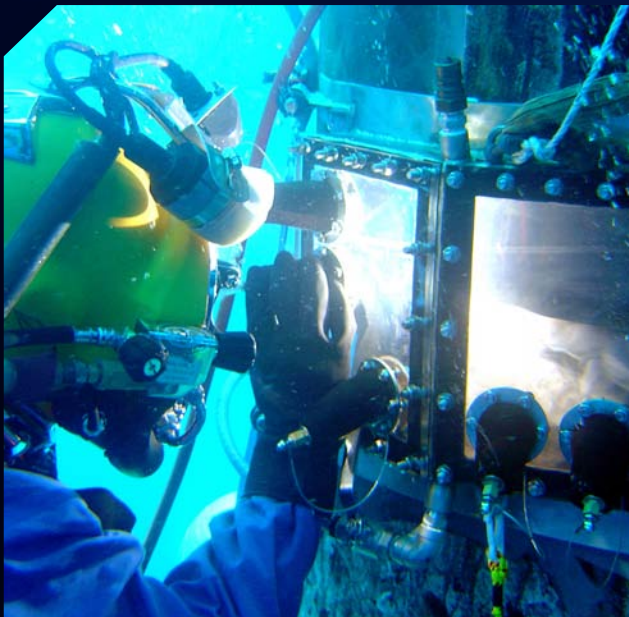


NEPSYS® DRY UNDERWATER WELDING

The Neptune Dry Underwater Welding System, NEPSYS®, is a unique, class approved technology that produces a permanent surface quality weld in an underwater environment.

Patented internationally, the process allows an effective and cost efficient solution which negates the need for dry docking or more complex hyperbaric repairs as the entire welding process is carried out in-situ, using compact NEPSYS® welding habitats.

For each application a custom designed welding habitat is secured to the weld area creating a controlled environment that fully encloses and isolates the weld zone. Ideal welding conditions are created and maintained within the habitat through the continuous delivery of heated inert gas, which eliminates hydrogen from the area, prevents quenching and provides even thermal distribution. The welder remains safely outside the habitat at all times.



The portability and flexibility of the NEPSYS® system allows repairs to be performed in-situ, providing an alternative repair solution for a variety of different applications in the oil and gas industry. The NEPSYS® system has a demonstrated track record and has been employed successfully to repair a variety of offshore assets including oil rigs, platforms, pipelines and various other subsea structures.

APPLICATIONS

- Jacket Structural Repairs
- FPSO Repairs
- Spud Cans
- Pontoon Structure Repairs
- Leg Strengthening
- Retrofit Risers and Appurtenances
- Pipelines
- Bridge Structures
- Ship Repairs and Modifications

FEATURES AND BENEFITS

- Permanent structural weld
- Portable system
- Flexible solutions
- Low operational impact
- Repairs performed in-situ
- Safe applications over alternate methods
- NEPSYS® system & processes class approved
- Engineered applications and repair solutions
- Currently certified to -70m depth



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TECHNICAL CHARACTERISTICS

The NEPSYS® technology enables a range of weld configurations that meet rigorous class society standards. In the field, the technology consistently achieves superior quality results that are equal to surface weld standards.

NEPSYS® qualifications and approvals to date include:

- Mil Spec NAVSEA S9074-AQ-G1B010/248 Dec 1995
- AWS D3.6 Class A Specification for underwater welding
- ISO 15614-10 Specifications & Qualifications of welding procedures for metallic materials (Hyperbaric welding)
- AWS D1.1 Structural welding code for steel
- Class societies including Lloyds Register & ABS

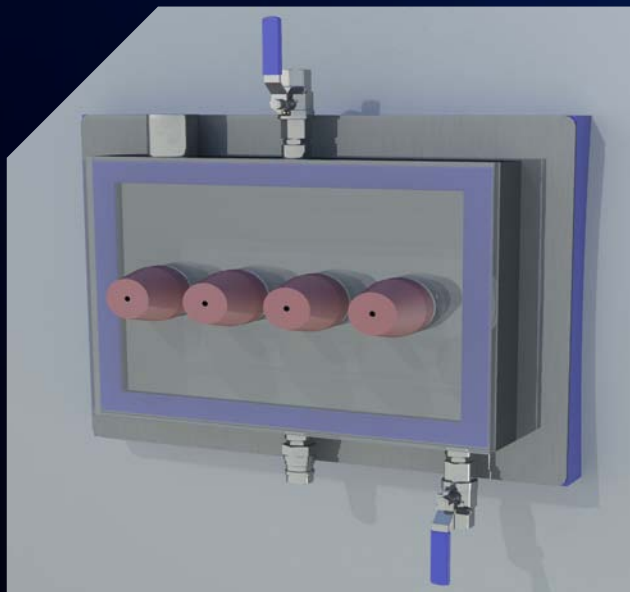
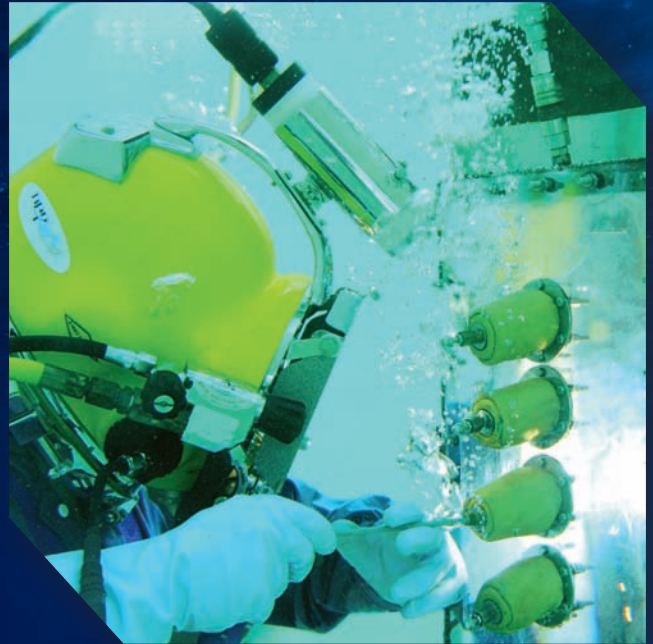
Germanischer Lloyd (GL) has also approved the use of NEPSYS® for repairs to class vessels including naval vessels and offshore oil and gas industry assets.

Comprehensive training and test tank facilities in Australia ensure all NEPSYS® diver/welders are trained and certified to the highest standards and ready to mobilise anywhere in the world.

NEPSYS® operates within Neptune's quality, environmental and safety management systems which have each achieved DNV / GL accreditation.

RESEARCH AND DEVELOPMENT

Neptune is working collaboratively with operators to ensure NEPSYS® remains at the leading edge of underwater welding technology. Through an extensive program of research and development the technology is being developed to address a wider range of applications.



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