Australian Locations

Perth
404 Orrong Road, Welshpool, Western Australia, 6106
P: +61 8 6242 2222
E: info@neptunems.com

Darwin
9 & 10 Fisherman’s Wharf Frances Bay, Darwin 0800
P: +61 8 8946 9300
E: darwin@neptunems.com

Melbourne
3/273 Williamstown Road, Port Melbourne, Victoria 3207
P: +61 3 9392 2901
E: melbourne@neptunems.com

Regional Head Offices

Aberdeen
15 Carden Place
Aberdeen, UK, AB10 1UR
P: +44 1224 659 950
E: infoUK@neptunems.com

Singapore
54 Loyang Way
Singapore, 508747
P: +65 6542 4143
E: infoSEA@neptunems.com

Batam
JL.RE Martadinata, Sekupang
Batam, 29428, Indonesia
P: +62 778 322 655
E: infoSEA@neptunems.com

Houston
14521 Old Katy Road, Suite 232
Houston, Texas 77079 USA
P: +1 281 506 7607
E: neptunesubsea@neptunems.com

Abu Dhabi
17th Floor Mansoori Tower, Salam Street
Abu Dhabi, United Arab Emirates
E: infoME@neptunems.com

Shared Regional Base with MTQ
Building 498, Road 1508, Hidd 115
PO Box 60095, Manama
Kingdom of Bahrain

MTQ Singapore
182 Pandan Loop, Singapore 128373
P: +65 6777 7651
F: +65 6777 6433
E: info@mtq.com.sg
INSPECTION, MAINTENANCE & REPAIR Solutions

Headquartered in Perth, Western Australia and with a presence spanning Australia, South East Asia, the Middle East and the UK, Neptune is a leading provider of integrated inspection, maintenance and repair solutions to the international oil and gas, marine and renewable energy industries.

Neptune’s flexible and dynamic approach ensures its range of specialised capabilities can be utilised as individual areas of expertise or as a fully managed solution.

Neptune is dedicated to maintaining and operating to the highest health, safety and environmental standards. The Neptune group has various third party certifications across the areas of quality (ISO 9001), occupational health and safety (ISO 14001) and environmental management (OHSAS 18001) and is a registered member of the International Marine Contractors Association (IMCA).

TOPSIDE & SUBSEA IMR

- Asset Integrity
- Commercial Diving
- Remotely Operated Vehicles
- Survey & Positioning
- Subsea, Pipeline & Topside Engineering
- Subsea Protection & Stabilisation
- NEPSYS® Dry Underwater Welding
- Manufacturing, Assembly & Testing
- Vessel Services
- Inspection Services
Neptune provides a complete range of commercial diving and subsea inspection, maintenance and repair services.

Combining state-of-the-art equipment, with the strategic allocation of resources and highly experienced personnel, Neptune has the capability to complete projects of any scale. Neptune’s diving services are performed to the highest industry standards and meet the stringent Australian regulatory requirements.

Furthermore, Neptune has achieved an excellent project and HSEQ performance history. Their reputation for delivering quality services in accordance with client’s cost and time constraints is well proven with a track record.
ASSET INTEGRITY
Services

Neptune works with clients to complete difficult and demanding inspection, NDT, maintenance and repair projects, using specialised access solutions.

Neptune is uniquely experienced with a proven track record for providing in-house engineered solutions and on-site execution for client challenges, which are cost effective and provide assurance of safety, quality and professionalism.

Neptune has the largest dedicated IRATA rope access training centre in Perth and additional training facilities in Darwin.

Neptune holds independently audited accreditations for NDT, lifting and visual inspections, classification society surveys, rope access operations, training, safety netting installation and quality management.

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<td>RPAS Aerial Inspection</td>
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<td>Coating Remediation</td>
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<td>Visual Asset Management</td>
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<td>Piping Insulation</td>
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<td>3D Laser Scanning</td>
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<tr>
<td>TRADING</td>
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<td>Environmental Habitats</td>
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</table>

PARTNERSHIPS
- RPAS Aerial Inspection
- Visual Asset Management
- 3D Laser Scanning
- Environmental Habitats
Neptune provides a wide range of offshore survey, construction support, positioning, geophysical and geotechnical services.

Employing state of the art technology and equipment, Neptune’s surveying services are efficient and rapidly delivered. As a result, Neptune has built a reputation for delivering high quality results that are based on working closely with customers.

Led by a highly qualified and diverse management team and boasting an experienced group of staff Surveyors, Geophysicists and Engineers, Neptune is focused on providing innovative, cost-effective and client focused solutions.

Neptune also prides itself on its deep water construction expertise, including the latest technologies for acoustic positioning metrology.

<table>
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<tr>
<th>POSITIONING</th>
<th>GEOPHYSICAL</th>
<th>GEOTECHNICAL</th>
<th>INSPECTION &amp; REPAIR</th>
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<tr>
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<td>• Rig Hazard Site Surveys</td>
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<td>• Mooring &amp; Catenary Management</td>
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<td>• Remote Vessel Tracking</td>
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<td>• Construction Support</td>
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<td>• Subsea Acoustic Positioning</td>
<td>• AUV Services</td>
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<tr>
<td>• ROV &amp; Dive Support</td>
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<td>• Lab Sampling &amp; Analysis</td>
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<td>• Dimensional Control Surveys</td>
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<tr>
<td>• Laser Scanning</td>
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</tbody>
</table>

• Laser Scanning
NEPSYS® Dry Underwater Welding

Neptune performs dry underwater wet welding using its proprietary NEPSYS® technology.

The NEPSYS® system is a unique, class approved technology that produces a permanent workshop quality weld in an underwater wet environment.

It was recognised that existing underwater wet welding technologies provided only temporary solutions that required subsequent reworking and imposed significant operational impact at substantial costs. NEPSYS® delivers an underwater wet welding solution that achieves an approved, permanent weld that is equal to dry weld standards.

In addition to NEPSYS® Neptune also has welding procedures to AWS D3.6 Class B for wet welding.

FEATURES
- Permanent Repair Solution
- Produces High Quality Structural Weld
- Customised Solutions
- Minimal Operational Impact
- Certified & Accredited to ABS, Lloyds & DNV/GL standards
- Compliant to Welding Code & Standard AWS D3.6 Class A
- Patented
- Dedicated training facilities

1. Custom made habitat is fabricated to suit weld joint/configuration
2. Habitat is secured to weld area using adjustable seals, magnets or straps
3. Inert gas is purged through housing to dewater, heat and create a dry environment. Heating elements can be incorporated where required.
4. Control panel on surface monitors and regulates temperature and pressure
5. Diver performs dry weld in an underwater environment using proprietary NEPSYS® electrodes
6. Welding parameters are monitored and controlled topside during welding ops.

Welding is performed to international class society standards.
Neptune provides a range of specialist subsea engineering services from concept and detailed design, through to project engineering, installation and ongoing inspection, maintenance and repair (IMR) activities.

Combining its expertise in engineering, fabrication and associated disciplines, Neptune provides its clients with customised, engineered solutions that address their specific requirements.

<table>
<thead>
<tr>
<th>STRUCTURAL</th>
<th>SUBSEA</th>
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<tr>
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<td>• Conceptual Field Development Engineering, Front End Engineering (FEED), Detailed Design &amp; Construction Engineering</td>
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<td>• Structural Design Engineering</td>
<td>• Pipeline Design</td>
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<td>• Structural Verification &amp; Analysis</td>
<td>• Pipeline / Riser Installation &amp; Stabilisation Solutions</td>
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<td>• 3D Solid Modelling &amp; Finite Element Analysis</td>
<td>• Metocean &amp; Coastal Engineering</td>
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<td>• Seafastening Design &amp; Analysis</td>
<td>• Structural Grouting &amp; Testing</td>
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<td>• Structural Clamps</td>
<td>• Scour Protection Design</td>
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<tr>
<td>• In-House Welding Engineering</td>
<td>• Freespan Assessment &amp; Correction</td>
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<tr>
<td>• Fabrication Project Management</td>
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<tr>
<td>• Systems Integration Testing (SITs)</td>
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<tr>
<td>• Lift Frame Spreader Bar Design</td>
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</tbody>
</table>
Neptune designs, engineers, manufactures and installs a range of subsea protection and stabilisation systems, tested in some of the most demanding offshore and subsea conditions around the world.

We specialise in a range of products and offshore services including:

**OFFSHORE GROUTING SERVICES**
- Freespan Correction
- Structural Grouting
- Fabric Formwork Groutbags

**SUBSEA MATTRESSES**
- SEAMAT® flexible concrete mattresses
- LOGMAT® rigid concrete mattresses
- BITUMAT® bitumen mattresses

**SCOUR PROTECTION & PREVENTION SYSTEMS**
- Subsea Structure Scour Protection Systems
- Fronded Solutions

**PRE-CAST STRUCTURES**
- Dropped Object Protection Structures
- Crossing Support Structures
- Bridge Structures
- Bespoke Solutions

**ADDED VALUE SOLUTIONS**
- Offshore Rated Bulk-Bags
- Rock Units
- Installation and Recovery Equipment

With offshore supply bases in Australia, South-East Asia, the Middle-East and Europe we are well positioned to deliver local solutions.

Safety, quality and the environment are at the heart of our activities and we operate an integrated HSEQ Management System which is accredited by DNV for conformance to OHSAS 18001, ISO 9001, and ISO 14001 recognising our robust safety, quality and environmental operational policies.

Follow us on @NepSubsea
Neptune specialises in the provision of quality Remotely Operated Vehicle (ROV) services, including tooling solutions.

With a versatile fleet of 20 work and inspection class ROV systems, and a pool of highly skilled and experienced ROV crew and technical support, Neptune offers a unique and economic solution with uncompromised performance and dependability.

**ROV FLEET**
- 150 HP Swift XL Work Class
- 150 HP Triton MRV
- 100 HP Explorer Work Class
- 75 HP Explorer Work Class
- Comanche Light Work Class
- Sub Atlantic Mojave Inspection Class
- Seaeye Falcon Inspection Class
MANUFACTURING, Assembly & Testing

Neptune provides clients with a range of manufacturing solutions encompassing the design, manufacture, machining, assembly and testing of a wide range of equipment including, but not limited to:

- Subsea Production & Injection Trees
- Marine Renewable Energy Systems
- Flowbases
- Lower Riser & Emergency Disconnect Packages
- Workover Riser Systems, Stress & Special Joints
- Running & Emergency Tools
- Subsea Manifold Systems
- Pig Launchers & Receivers
- Riser Handling Equipment, Spiders & Guide Sleeves
- Wellhead Equipment
- Tubing Hanger Systems & Orientation Tooling
- Umbilical Reels
- Workover Control Systems
- Subsea Valves, Actuators & Choke Valves
- Hydraulic Systems, Control Line Fit Up & Flushing
- Drilling Riser & Slip Joints
- Heave Compensators & Tensioners
- Pile Top Hats, Clamps & Tethers
- Test Equipment

Neptune’s highly qualified personnel have substantial experience in equipment of this nature and an outstanding reputation for delivering high quality solutions.

Neptune also provides subsea system stack up interfaces that include system integration testing (SIT). These operations are performed within our customised test pit in our undercover workshop. Additionally, Neptune can provide offshore support for the stack-ups.

TURNKEY SOLUTION

- Engineering
- Manufacturing
- Assembly & Test
- Stack Up Testing
- Offshore Installation
VESSEL Services

Neptune has a fleet of small dedicated dive vessels operating from its regional bases in Dampier, Darwin and Melbourne.

In addition to these Neptune has established partnerships and joint ventures with key vessel operators in each of its geographical operating regions. These partnerships allow Neptune to provide clients with integrated inspection, maintenance and repair solutions, including the provision of a dedicated vessel.

Neptune has comprehensive in-house marine assurance procedures and are operating for clients under a OVMSA compliant management system.

Neptune is experienced in the chartering and managing of vessels and conducts comprehensive HSEQ assessments of all partners and sub-contractors.

Vessels previously chartered by Neptune include:

- Air Dive Support Vessels
- Saturation Dive Support Vessels
- Construction Support Vessels
- Platform Support & Supply Vessels
Neptune specialises in the provision of both scheduled and unscheduled subsea and topside inspection services and can assist clients in the development and implementation of routine inspection programmes. Neptune can offer rapid response times for unscheduled inspection and maintenance requirements from its numerous operational bases in Australia.

Neptune has the necessary equipment and in-house personnel for the collection, analysis, reporting and management of client’s inspection data.

Neptune has significant experience in performing UWILD (Under Water Inspection In-Lieu of Dry Docking) and is certified by various classification bodies including Lloyds.

### SUBSEA INSPECTION
- IMR Campaign Planning & Management
- ROV Structural & Pipeline Inspections
- Visual Inspections
- Video & Photographic Surveys
- ACFM Inspection (Diver)
- Digital Video Acquisition
- Data Management
- GIS Deliverables
- 3.4U Inspection Controllers
- UWILD
- Laser Scanning
- 3.1U & 3.2U Qualified Diver Inspections
- Offshore Inspection Management
- Cathodic Protection Services (CP)
- Flooded Member Detection (FMD)
- Ultrasonic Thickness Measurement (UT)
- Chain Measurement Services

### TOPSIDE INSPECTION
- In-Service Inspection
- Non-Destructive Testing
- Piping System Surveys
- Lifting Equipment Certifications
- IACS Class Society Surveys
- SPS in conjunction with UWILD
- Base Line Surveys
- ACFM
- MPI (Magnetic Particle Inspection)
- Mechanical Testing
- Compliance Inspection
- Laser Scanning
- Cathodic Protection Services (CP)
- Ultrasonic Thickness Measurement (UT)