Neptune provides a full range of end to end asset management solutions to the global offshore energy industry. Neptune’s flexible and dynamic approach ensures clients can utilise any of its individual areas of expertise or enjoy the confidence of a fully managed, engineered solution from project inception to completion.

Headquartered in Perth, Western Australia, Neptune’s primary focus is the offshore oil and gas sector where our comprehensive suite of services can be tailored to provide solutions that meet the demanding and diverse requirements of both new construction and existing inspection, maintenance and repair (IMR) projects.

With a global presence spanning Australia, Asia, the UK and Middle East, Neptune is emerging as a leading provider of engineered solutions to the international oil and gas, marine and renewable energy industries.

ENGINEERED SOLUTIONS

- Commercial Diving Services
- Engineering - Subsea and Pipeline
- Hydrographic Surveying, Positioning and Geophysical Services
- NDT and Inspection Services
- NEPSYS® Dry Underwater Welding
- Offshore Asset Integrity Management
- Pipeline Stabilisation and Protection
- Project Management
- Remotely Operated Vehicles
- Repair and Maintenance Services – Topsides and Subsea
- Specialist Fabrication and Associated Services
- Testing and Assembly Services
Neptune's Geomatics division adds a diverse array of offshore marine hydrographic survey and geotechnical services to Neptune's extensive list of capabilities. The division has principal operational centres in Perth Western Australia and Aberdeen.

Neptune Geomatics provides a comprehensive range of geophysical, geotechnical, positioning and construction survey services to the offshore energy industry, along with a number of dedicated services for harbour authorities and telecommunications companies.

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

Led by a highly qualified management team and boasting a highly experienced and trained group of Engineers, Geophysicists and Surveyors, Neptune Geomatics is dedicated to providing innovative, cost-effective and client focused solutions. Similarly dedicated to quality and safety, the division has attained DNV certification for its quality management system (ISO 9001:2008) and safety management system (OHSAS 18001:2007, AS/NZS 4801:2001).

Specialising in:

- Construction Survey Services
- Dimensional Control Surveys
- Geophysical Surveys
- Geotechnical Investigations
- GIS Desktop Studies
- Hydrographic Surveys
- Pipeline Route and Inspection Surveys
- Rig Hazard Site Surveys
- Rig Positioning Services
- ROV and IRM Survey Support Services
- Subsea Acoustic Positioning and Metrology
Neptune Geomatics offers a comprehensive range of rig positioning services to support offshore drilling operations and has extensive experience with Jack-up, Semi-Submersible and DrillShip positioning. In addition, the division has developed innovative solutions to enhance its rig positioning services, such as incorporating redundant data telemetry systems with the capabilities of its industry proven positioning software to offer a robust Anchor Handling Tug Tracking System.

Neptune Geomatics provides a client focused and responsible approach including dedicated project management – from planning through to execution of the project.

- Acoustic Subsea Positioning for Batch Drilling Operations or Inverted Rigmove
- Catenary Calculations
- In-Field Rig Moves
- Jack-Up Positioning and Drill Floor Heighting
- Precision Positioning Alongside In-Field Subsea Structures and Platforms
- Semi-Submersible Anchor Planning and Positioning
- Template and Guidebase Installations
- Vertical Seismic Profiles
GEOPHYSICAL AND GEOTECHNICAL SURVEY

Neptune Geomatics offers a comprehensive range of shallow geophysical and geotechnical services to support FEED, drilling, construction and asset maintenance activities and uses the latest in digital sidescan sonar and multibeam echosounder technologies as well as industry proven sub-bottom profilers. When used in combination, these technologies provide the best geophysical solution for a wide range of geological environments.

- As-Built Surveys
- Debris Clearance Surveys
- Engineering Analysis Surveys for Subsea Structure Installations
- Environmental Surveys
- Magnetometer Surveys
- Pipeline Inspection Surveys and Freespan Analysis
- Pipeline Route Surveys (pre FEED)
- Rig Hazard Site Surveys
- Wreck Investigation Surveys
- UXO Surveys

Neptune Geomatics also offers a comprehensive range of geotechnical services to support geophysical surveys.

- Cone Penetrometer Testing (CPT)
- Drop Coring
- Field Laboratory Testing
- Geotechnical Logging
- Piston Coring – 3m and 6m
- Vibrocoring – 3m and 6m
- Borehole Drilling and Sampling Using Sea-Floor Drill
Neptune Geomatics construction division specialises in providing acoustic and integrated positioning services for construction activities in all water depths, to beyond 3000m. Utilising the latest in acoustic positioning technology (LBL and USBL) and inertial navigation systems (INS) together with experienced offshore engineers and surveyors, Neptune Geomatics can provide the appropriate positioning solution from planning through to installation, calibration, operation and final result presentation.

Neptune Geomatics can provide and operate LBL and USBL acoustic positioning systems for all deepwater or wide area field developments and works closely with oil companies and installation contractors to analyse the positioning requirements for all components of a field development; including manifold and template installations, pipeline initiations and lay-downs and highly accurate metrology measurements.

- Acoustic Positioning Feasibility Studies
- Array Installation and Calibration
- Dimensional Control
- Integrated Positioning Services for Subsea Survey and Construction:
  - DSV Support
  - Metrology Surveys
  - Pipeline Installation and Cut-to-Length
  - Positioning for Deepwater ROV Based Multibeam Surveys
  - Subsea Structure Installation
  - Umbilical Installation
- LBL Array Planning and Positioning Analysis:
  - 3D Terrain and Line-Of-Sight Modelling
  - Position Accuracy Analysis
  - Ray Bending Analysis
- USBL System Calibration Service
Working closely with Neptune’s ROV division on either Neptune or third party vessels, Neptune Geomatics provides a comprehensive array of services to undertake ROV based Inspection, Maintenance and Repair (IMR) activities. Utilising the latest real-time video and data acquisition technologies and subsea inspection sensors, together with the provision of experienced and appropriately qualified personnel, Neptune Geomatics offers an integrated and professional solution for all subsea inspection activities, from data acquisition and interpretation through to the on time delivery of a qualitative final report.

Neptune Geomatics also provides survey and positioning services to assist with the installation of a range of stabilisation and protection systems for pipelines and subsea structures in conjunction with Neptune’s Stabilisation division.

- As-Built Surveys – Pipeline and Structures
- Cathodic Protection Surveys
- Flooded Member Detection Surveys
- General Video Inspection Surveys
- Out-of-Straightness Surveys
- Pipeline Inspection Surveys
- Pipeline Remedial Operations
  - Pipeline Freespan Supports
  - Pipeline Stabilisation Mattresses
  - Scour Control
- Structure Surveys
DIMENSIONAL CONTROL SURVEY

Neptune Geomatics can provide dimensional control survey solutions to assist with subsea metrology and onshore fabrication activities. Utilising the latest 3D survey software and the most accurate measurement technology such as reflectorless Leica Total Stations, Neptune Geomatics can provide the appropriate measurement solution.

Whether onshore or offshore, Neptune Geomatics can tailor a measurement solution for almost any situation and required accuracy.

- 3D Survey Setout
- Alignment Surveys for Metrology Tooling
- As-Constructed Surveys
- Measurement of In-Situ Objects
- Pipe Flange Surveys
  - Flange Inclinations and Bolt Hole Rotations
  - Pipe Spools
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