

CAPABILITY STATEMENT



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SCOPE OF SERVICES

Established in 2005, **Insight Marine Projects Ltd.** provides a range of survey and inspection services to the coastal, inshore and offshore marine industries. Our core skills include hydrographic, visual and technical condition surveys of structures such as pipelines, cable installations, marinas and reservoirs.

Insight Marine operates a range of equipment including multibeam and singlebeam echosounders, high resolution imaging sonars and compact mini-ROVs (Remotely Operated Vehicles). We aim to ensure that our approach to each project is designed to fulfil the individual needs of each customer across the various marine industry sectors.

We have experience in the following disciplines within the marine environment:

- High Resolution Hydrographic Surveys
- Swath Bathymetry
- Survey Planning, Implementation and Management
- Remotely Operated Vehicle video studies
- Water Quality Studies
- Sidescan Sonar Surveys
- Oceanographic Surveys
- Magnetometer Surveys
- Hazard and clearance surveys
- Cable & Pipeline Surveys
- Precision Navigation using DGPS and RTK
- Current & Physical Characteristics Profiling (ADCP)
- Environmental Impact Assessment
- Float Tracking
- Shallow geophysical surveys (Sub-Bottom profiling)
- Seabed sampling and analysis
- Mooring deployment and retrieval
- Sediment and Pollutant Studies
- Tidal Monitoring
- Contaminant and dispersion modelling
- Underwater Archaeological Surveys
- Benthic Community Studies
- Vibrocore Sampling



MARINE SERVICES

Insight Marine offers a wide range of skills and services to the marine industry. We specialise in the provision of hydrographic data for the purposes of navigation, construction, debris clearance etc. We also offer visual inspection of underwater structures using remotely operated equipment, in particular observation class ROVs (Remotely Operated Vehicles). These vehicles allow us to offer a unparalleled access to confined spaces or areas too dangerous for divers.

Hydrography

The Insight team undertake hydrographic surveys for coastal, inshore and offshore projects. We are able to supply a fully integrated service from initial quote through to completion and data delivery. All data is collected digitally and delivered to the client in digital and paper formats as required. Rapid mobilisation of the survey team and data turn-around time is seen as a key to our success. In the field we use equipment which is suited to fast deployment and as such we are able to offer a Rapid Response service to customers, for example ports and harbours that may require under keel surveys at short notice.

- Multibeam bathymetry
- Surveys for civil engineering & dredging projects
- Sidescan sonar surveys & mosaicing
- Magnetometry
- Seabed sampling and analysis
- Single beam bathymetry
- Shallow geophysical & sub-bottom profiling surveys
- Wire sweeps and safe clearance investigation
- Precise positioning (RTK GPS)
- Pipeline location

Subsea Inspection

We are able to offer visual condition surveys on structures such as outfalls, piling, pontoons, mooring chains, and ship hulls. Use of ROVs enables us to mobilise with little notice and at very competitive rates. Typical services include:

- Clearance surveys
- Anchor & mooring surveys
- Scour surveys
- Search & recovery
- Hull & U/W gear inspections
- Commercial diver support
- Structural inspections
- Contaminated spaces
- Aquaculture/Mariculture
- Maritime security
- Subsea structure inspections
- Reservoir/ dam inspections
- Confined spaces
- Underwater filming
- Cathodic potential surveys
- Research and exploration
- NDT (Non Destructive Testing)
- Environmental monitoring
- Salvage Assessment
- Bore hole surveys

Oceanographic & Environmental

The need for oceanographic and environmental data has become an integral part of any marine construction project and as such we are able to offer a range of different techniques during the field work phase to meet our customers needs. Typical methods include:

- Current profiling
- Wave measurement
- Drogue tracking
- Temperature/Salinity
- ROV sample collection
- Self recording current meters
- Tide measurement
- Remote sample collection
- Turbidity measurements
- ROV photographic/video analysis

Data Archive

All data and reports produced by **Insight Marine** are made available to our customers in a dedicated secure area online, this provides not only a method of backing up data but also allows the end client to share the data quickly and easily over the internet. This is particularly useful when large file sizes are involved such as the MPEG video format collected by ROV. This service is provided free of charge to all of our customers.

EQUIPMENT

We operate a wide variety of specialised equipment during the different survey tasks we undertake.

Hydrographic Equipment

Rapid deployment for hydrographic surveys is possible due to the portable nature of the equipment we use.

Single Beam Echo Sounder: The Ceeducer is a highly portable, easy to install and easy to use professional hydrographic survey system. It provides the user DGPS positioning, single channel echosounder and internal logging in a durable and rugged housing.



Datasheet:

[Ceeducer Specifications](#)

Navigation & Processing: We use the HYPACK® MAX data acquisition and processing package which gives us the flexibility and power needed to perform a range of survey tasks. It supports single beam, dual frequency, multiple transducer and multibeam echosounders, along with gyros, magnetometers, telemetry tide gauges and other survey devices.

The program can be configured to display and track single vessels, multiple vessels, or the main vessel and ROVs or towfish. Users can display the vessel positions against background files of DXF, DGN, TIF, S-57, BSB, C-Map, or VPF file format.

Datasheet:

[Hypack Max v4.0](#)

Differential GPS: Accuracy in positioning is critical to the integrity of the surveys we undertake. Where necessary a standalone DGPS-MAX unit is used to supply sub-metre accuracy in horizontal positions. The unit is also capable of running in Real Time Kinematic (RTK) mode giving a potential overall accuracy of 5cms, (95% confidence).



Datasheet:
[DGPS Max Specifications](#)

Tidal Data: Survey vertical control is obtained with the Ohmex TidaLite tide gauge. This is a low cost, portable device with a specification designed for use in hydrographic, oceanographic and dredging applications. The device can be used as a conventional display tide gauge, a radio telemetry tide gauge or as a logging gauge with time tagged data stored internally.



Datasheet:
[Ohmex EDAS Tidalite](#)

Remote Inspection

Primary hardware for the remote inspection of subsea structures and plant is the Outland 1000 ROV. This vehicle represents the leading edge in remote access technology and is the leader in its class of small ROVs.



The vehicle carries two video cameras, one high resolution colour and one B&W camera suitable for low light levels. Internal and external lights allow the vehicle to be used in low visibility water both at sea and in rivers and reservoirs. A surface control box is used to monitor and steer the vehicle to a maximum depth of 150m. Four thrusters allow the tethered vehicle to move from side to side and up and down.

Datasheet:

[Outland 1000 Specifications](#)

Oceanographic Equipment

Water Quality: Multi-parameter HydroLab H2O sonde capable of direct reading of C, T, D, pH, DO & Redox to a depth of 50m. Hydrolab water quality instruments are known for their excellent construction and reliability in the field. Accurate, reliable water quality data is displayed on the hand-held data unit, alternative logging to a PC is possible with serial data ports.



Datasheet:

[Hydrolab Sonde Specifications](#)

Water Sampling: The NIO plastic reversing water bottle was first designed at the National Institute of Oceanography (NIO) during the 1970s and still offers arguably the best sealing messenger operated sampling system. This bottle is used successfully today by leading marine and freshwater research organisations worldwide.

In cases where we need extra equipment we are able to make use of the extensive national hire pool available to us.



POLICY DOCUMENTS

INSIGHT MARINE PROJECTS LTD HEALTH SAFETY & ENVIRONMENTAL STATEMENT

Insight Marine Projects Ltd seeks to protect the environment, the health and safety of our employees, clients, subcontractors and others who may be involved with our industry and the communities within which we operate.

Accordingly Insight Marine Projects Ltd is committed to the following basic principles:

- We will identify, define and manage risks arising from the services we supply and the activities which we engage in.
- We will continuously review our activities and services to identify and take opportunities to reduce risk levels and increase margins of safety for our employees. We will consult, listen and respond openly to our employees, clients and contractors to help us achieve this objective.
- We will comply with applicable laws and regulations in the regions of the world in which we operate. Where local laws are insufficient to adequately protect safety, health and the environment we will comply with the relevant industry guidelines.
- We believe that a zero accident / incident target is achievable through education implementation and review. Policies and procedures consistent with this belief will be implemented and continuously improved.
- We will make economical use of resources and minimise adverse environmental impact. We will strive to reduce environmental emissions and waste and pursue opportunities to recycle where possible and efficiently utilise energy and raw materials.
- We will communicate the known risks and hazards of our activities and that of our industry together with the identified methods for environmental health and safety protection to everyone involved.

Insight Marine Projects Ltd will continue to ensure that we conduct all of our operations in a safe and environmentally responsible manner and, through a process of sustainable continuous improvement and employee awareness will achieve and demonstrate continuing improvement across all aspects of Environment, Health and Safety.

*This policy has been endorsed by **Alex Richards** and has the full support of the management.*

*The policy was approved on **10th August 2005**, following consultation with the management and staff.*

Alex Richards

Director

Insight Marine Projects Ltd



INSIGHT MARINE PROJECTS LTD QUALITY POLICY

Insight Marine Projects Ltd provides a wide range of hydrographic, construction support, ROV and positioning services. Clients include oil and gas exploration companies, engineering contractors, telecommunications companies, civil engineering concerns, port and harbour authorities and government agencies. The services provided include project management, fieldwork and data acquisition, data processing and interpretation, and reporting.

It is the policy of Insight Marine Projects Limited to manage its business and to provide services to the highest standards of quality achievable commensurate with its contractual requirements in order to ensure total customer satisfaction. This shall be achieved through the development and implementation of an Integrated Management System (IMS) covering all services provided.

This IMS will be based on the International Standard EN ISO 9001:2000 and shall ensure that all company activities comply with the appropriate statutory and regulatory requirements.

Key Quality Objectives

- Review and monitoring of IMS leading to continuous improvement thus enabling enhanced customer satisfaction and business performance.
- Monitor and review training requirements and provide training appropriate to employee development and business needs, including training in the IMS.
- Development of all staff, in order to meet business objectives.
- Promote awareness and understanding of all staff of their responsibilities in relation to the IMS processes and the business objectives.
- Maintain necessary knowledge of quality standards, legislation, Codes of Practice and other appropriate technical and guidance material relating to company activities. Ensure this material is made available within the company.
- Ensure suppliers have a QMS appropriate to their activities and that the performance of key suppliers is monitored and reviewed.
- Through appropriate planning, ensure that the integrity of the IMS is maintained at all times in particular during periods of change.

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Director

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