

# Support, Trials & Calibration

Drumgrange's Portland facility provides unrivalled expertise and support in the field of marine acoustic and underwater trials.

Located at Southwell Business Park, on Portland, Dorset, the company premises houses a transducer calibration laboratory, two test tanks, light and heavy workshop areas and extensive equipment storage and handling capabilities.

The company undertakes logistical management, installation, maintenance, repair, refurbishment and calibration of various sonar and underwater equipment including standard and bespoke sonar suites (both wet and dry ends), discrete and multi-element acoustic transducers, multi-element/multi-beam systems, transponder systems and array sound source deployment systems.



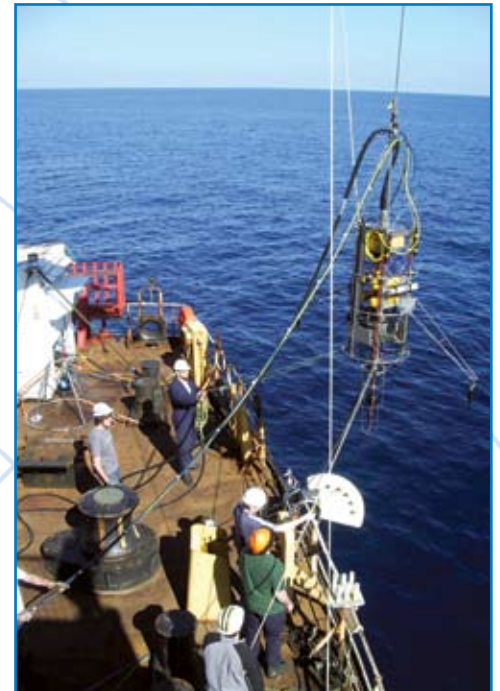
## CALIBRATIONS AND ANALYSIS

Drumgrange has extensive experience at providing logistic, support and equipment for the calibration of, both wet and dry end, sonar equipment and systems for defence based customers. The team at the Portland site regularly organise and support trials and exercises both at sea and in enclosed water environments, operating, handling and deploying equipment from sea going vessels or tethered platforms.

Drumgrange have a proven track record for delivering quality trials and analysis services on time and to short time scales. Drumgrange operates a Containerised Transportable Calibration Facility which provides both static and towed sound sources and acoustic measurement systems. Acoustic signals from Hz up to hundreds of kHz can be catered for. Other discrete calibration systems for in harbour and enclosed water calibration are also operated.

The measurement and analysis methods employed by Drumgrange take account of environment differences using both environmental monitoring and modelling techniques. Furthermore, where possible the methods employed validate results by using two or more different and separate measurement/analysis systems.

Support facilities include acoustic laboratory and extensive workshop and equipment storage, including ISO Container handling equipment (25 Tonne EOT Crane).



## COMPANY EXPERIENCE, EXPERTISE & SERVICES

- Trials Supports - Testing, acceptance and calibration of acoustic systems in 'at sea', harbour, enclosed water and Loch environments.
- Development and performance of calibration methods
- Calibration analysis and Measurement data evaluation
- System performance proving and validation.
- Specialist unit design, modifications and system integration
- Installation and integration of commercial and naval equipment – including surface, sub-surface and airborne sonar systems
- Substitution and reciprocal type acoustic calibrations
- Traceable to National Standards (NPL)
- Acoustic test/calibration tanks – one anechoic and one reverberant.
- Operational support to defence customers of frontline equipment.

## CURRENT PROJECT/CONTRACTS

- Special Communications System for Royal Navy
- Monitoring Equipment for British Armed Forces
- Sonar support for Royal Navy
- Training Systems and Simulators for the Military
- Radio and Acoustic Telemetry System



*“We design, develop and manufacture innovative products and are also experts at integrating existing technology to create successful, cost effective solutions.”*



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