Atlantic Marine & Aviation LTD
Maritime House
Hove, Sussex, BN41 1WR
Phone: 01273 248800
Fax: 01273 248700
E-Mail: paul@atlantic-marine.co.uk
Web: www.atlantic-marine.co.uk

Atlantic Explorer +

W.ROV R.O.G.E.

R.emote O.perated G.rab
E.xcavator

Survey & support...

• Subsea Recovery
• Deep water Geotechnical
• Mattress Lay
• Seabed Clearance
• Boulders / UXO removal
• Subsea Salvage
• Work Class ROGE (ROV)

SPECIFICATIONS  ROGE

04.10.2013


**ROGE-ROV OPERATIONS**

**Vessel & Equipment Specification: (ROGE / ROV)**

Atlantic Marine and ROGE Systems ltd operate 2 complete ROGE WROV spreads. One spread is permanently installed on board the Atlantic Explorer. The second is a portable / containerised system, capable of launch from any offshore PSV with a large crane and moon pool, including Atlantic Marine’s ship Atlantic Carrier:

Offshore multi-role ship MV Atlantic Explorer is a 71M offshore specialist recovery, subsea operations and survey vessel.

Atlantic Explorer can accommodate 16 to 18 clients in addition to her 12 marine crew. There are normally 5 persons in the ROV-ROGE operations team. There is a moon pool, with ROGE-ROV subsea system, and a large crane with 360 degree 15 Ton SWL over-side launch and recovery capability. There is a high degree of fuel economy with her ability to operate her two main engines or only on her three azimuth thrusters and single tunnel thrusters when operating in DP mode (depending on duties).

The two ships Holds can accommodate up to 300 tons of cargo or equipment.

**Atlantic Explorer**
Primary Roles

- Subsea boulder removal
- Subsea wreck and debris salvage
- UXO survey and removal
- Trenching and seabed preparation works
- ROV survey (pipelines / cable)
- Rock bag placement or recover
- Mattress protection lay or recovery
- Seabed excavations
- Soil and seabed sampling
- Deep ocean survey and recovery missions

Quick specification

- Ship: 71M LOA - DP system installed
- Only 2.5 tons/ day fuel consumption on DP operations
- ROGE ROV can lift 15 tons from seabed, excavate / move boulders or debris & survey
- 4000m umbilical subsea high speed winch – 25 tons lift – twin hydraulic drives
- Dynamically positioned DP1 – Nautronix NM6000 DP (not classed)
- 3 x 360 degree azimuth thrusters & one x tunnel thrust with independent power source and control system, designed to provide 100% redundancy for close quarters offshore “zone” operations.
- 1 x 68 T/M crane for over-side operations
- 20/25Ton Gantry for ROGE-ROV SUBSEA Deployment via 4.2M x 4.5M Moon Pool
- ROGE INSPECTION: Blue View + SONAR+GAP USBL+CCTV+LIGHTS+VIDEO Link+FIBRE OPTICS
- ROGE TOOLS: Tone Grab + Clamshell Grab + Shear Grab + Mass Flow Excavator
- Water Depth Operations 10m to 4000m.
Atlantic Explorer - multi-purpose support

Dynamic Positioning

ROV-ROGE Control room

Close Proximity operations

ROG E.W.ROV with GRAB

ROG E.W.ROV Telemetry

Nautronix DP System
ROCK PAG DEPLOYMENT

ROGE ROV over the ship's side by crane and accurately placed using the ROGE W.ROV
SUBSEA MATTRESS PROTECTION; POSITION AND LAY

Mattress prepared above moon pool

Mattress – hydraulic spreader

Deployed via moon pool
SUBSEA MATTRESS LAY – OVERSIDE FRAME DEPLOYMENT
ROGE SYSTEMS

Specifications

General ROGE Platform Specifications are:

**MODEL:** ROGE 3

**Size / Weight:** 2040mm x 2040mm x 1440mm 3 ½ Ton with the Grab attached, 2 Ton when not fitted

**Depth Rating:** Max depth is rated to approx. 4000m but determined by winch and umbilical

**Max Lift:** Approx 20 Ton dependant on the umbilical, tooling and application

**Camera:** Optional camera fitment is dependent on tasking 1 x Tritech Typhoon colour cameras, 2 x Tornado low light camera

**Thrusters:** 4 x horizontal Sub Atlantic SA380 thrusters

**Sonar:** Blueview P900

**Lights:** 6 x Rovtech Seabeam dimmable 3 pin 110v lights

**Control:** Field Proven Tritech Control system

**Power Requirements:** 2000v supplied by umbilical and stepped down to 110v and 440v 3 phase by subsea transformer

**HPU Output:** Producing a pressure of approx. 220bar – flow rate of 60 Ltrs per minute 4000 meter

**Other Options:** Other tooling options include sheer grab, clamshell grab and mass flow excavator. Bespoke solutions can be catered for by our in house design and engineering team
ROGE-ROV EQUIPMENT HIRE TERMS

- SYSTEM provided by ROGE SYSTEMS LIMITED in association with Atlantic Marine & Aviation LLP
- ROGE-ROV 5 man operational Team (4 pilots + 1 supervisor)
- 22 hour operations PD + 2 hours per 24 hour cumulative allowance for repairs and maintenance
- Breakdown:
  - ROGE breakdown: 50% of vessel hire remains payable.
  - Vessel breakdown: 50% of ROGE hire remains payable
- Operational limits - Maximum 2M Sig Wave + 2 knots current
- Knock for Knock liability on all equipment
- Seabed operations and Crown license liability/responsibility for charterers only
- Charterers to indemnify and hold harmless Ocean Force and Atlantic Marine in event of subsea accident, claim, legal proceedings from fisheries groups or local/national authority in respect seabed destruction or disturbance.
- Weather time that cannot be worked at sea shall entitle the ship to return to port in order to facilitate equipment repairs and maintenance.
- All port calls or transfers to/from the vessel at sea for parts and service provision, crew changes, personnel transfer and reporting / HSE audits, including port call costs during ROGE breakdown, to charterers account.
- Other terms and conditions subject to contract.
Summary

Atlantic Explorer

Load Bearing ROV
This unique deep water system has been purpose built to provide an efficient method for the deployment, operation and recovery of various subsea tools.

A high speed winch holding 1800m of armoured umbilical provides the load bearing ROV with power comms and lift. The load bearing ROV has multiple functions and is equipped with the latest in subsea navigation and survey equipment. There are a range of interchangeable tools for various applications. In addition to this there is survey equipment available for hire.

Interchangeable Tooling

Mass Flow Excavator  Tine Grab  Shear Grab  Clamshell Grab