



## First Marine Solutions

### 1st for Full Moorings Service

We provide expertise, technology, techniques and support to safely moor offshore drilling units.

As part of the largest privately owned oil company in Scotland - 1<sup>st</sup> Oil, we are a rapidly growing customer focused, specialist in providing support to offshore drilling activities for the Oil and Gas Industry, globally. Our fleet of mooring equipment encompasses the latest design and technology available in the industry, with the most modern hire fleet at your disposal.

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#### About Us;

Established in 2009, in the oil industry hub of Aberdeen, UK, FMS has grown to deliver mooring solutions to clients on a global basis

Supported by expertise in marine, technical, positioning and mooring equipment services

First Marine Solutions are capable of providing a complete single source rig move or mooring installation package, including:

- Rig Moving Services
  - Mooring Equipment – Rental and Sales
  - Marine / Technical Consultancy
  - AHV Vessel Selection and Audits
  - Survey & Positioning services
  - Mooring lines Inspection
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#### Our Services;

**Mooring Equipment** – Rental and Sales – FMS has a portfolio of mooring equipment, drag embedment and vertical lift anchors, mooring chain in grades R4 and R5, designed to enable deployment of systems such as conventional catenary systems, taut systems, inverted catenary systems, composite mooring systems with polyester and wire inserts for MODUs, FSO/FPSOs and with modern DP Units we can offer thruster assisted moorings

**Rig Moving Services** – First Marine Solutions develop our procedures in conjunction with our clients; our Tow masters act as the Offshore Installation Manager marine expert on-board the rig and advise the OIM in relation to marine matters. As the rig move service provider, we assist our clients and rig owners with the planning and risk assessment of the operation according to legislation, design regulations, guidelines and industry best practice. Based on the risk evaluation, we advise our clients with regards to the actions to be taken, in order to control the risk associated with the operation

**Marine / Technical Consultancy – Engineering Analysis** First Marine Solutions use a range of software for the assessment of mooring systems. Available suites are, but not limited to, Gmoor32 and Orcaflex. Our project engineers combine analytical expertise with their practical understanding of equipment and vessels to develop the best mooring solutions.

First Marine Solutions is building extensive experience in drilling riser analysis covering drilling operations worldwide. These include conventional shallow and deep-water MODU operations systems. We believe in a system approach to drilling riser assessment, whereby all components of the system including wellhead, conductor, casing, BOP, riser and tensioners and all stages of operation are considered in the course of the drilling riser assessment

**Survey & Positioning services** – FMS in co-operation with Neptune Survey offer a vast range of positioning equipment all owned by FMS and operated by Neptune giving our clients the security of knowing that our provision of survey and positioning equipment and technology is the best available. We provide on a global basis, In-field rig positioning services, Remote anchor handling vessels (AHV) positioning services, Provision of highly skilled hydrographic offshore survey personnel and project management services.

**AHV Vessels, Selection Audits/ Analysis** – First Marine Solutions also have the in house capability to advise clients on AHV selection based on bollard pull, locker size, and deck space and can carry out CMID and OMID certified inspections.

We also provide AHV's in co-operation with Siem Offshore, for rig tows, based on a 10 day hire at an extremely competitive fixed cost (excluding fuel) c/w ROV capability if required

The objective of the AHV analysis is to give an acceptable anchor handling methodology that ensures all loads and tensions are minimised. Based on the specific location, we produce calculations and tables providing information on line tensions, pay-outs and range and the ability to quantify additional environmental loading that may be expected. Analysis is also run to show the expected surface current to obtain approximate beam heading control loads (wind, wave & current)

**Marine Services – Spooling** FMS owns and operates one of the most modern fleet of spooling machines in the UK, with 3 each 75t, 2 each 150t and a 200t spooler along with a 60t traction winch and various coilers and turntables, capable of handling up to 200 tonnes of wire or fibre rope on a single reel. The spooling machines have been developed with leading manufacturers to ensure the equipment is safe to operate and provides the necessary back tension and speed control.

All equipment is fully tested for offshore use and is operated by fully trained experienced personnel

### **Mooring Line Inspection**

First Marine Solutions is able to provide full service requirements relating to as-laid review of installed anchors and mooring lines.

Utilising our expert in-house personnel along with trusted 3<sup>rd</sup> party partners, we are able to offer:

- *Provision of ROV Support Vessels*
- *ROV Inspection Procedures*
- *Provision of Expert Personnel*
- *Review of as-Laid Mooring Lines*
- *Conditional Analysis of Components*
- *As-laid Anchor Position*
- *Analysis of findings*



First Marine Solutions is also able to offer our services should intervention be required post review. Through our partnerships with vendors, we can provide the best equipment at the best prices. Our highly skilled site teams have experience in deployment and recovery of mooring systems (from the simple to the complicated, from the shallow to the deep) worldwide for some of the biggest drilling contractors (Transocean, Maersk, Cairn, and Total). Our dedicated team can be called upon to provide:

- *Replacement Components*
- *Provision of Specialist Vessels*
- *Provision of Experienced Site Teams*
- *Recovery, Change-out and Deployment Procedures*



### **Global Experience;**

UK North Sea,

Romania, Black Sea, with Transocean and Lukoil

Cyprus and Egypt in the Mediterranean with BP, Noble Drilling, Rashpetco, Maersk and BG

Morocco and Mauritania in the Atlantic Ocean with Cairn Energy and Genel

Ghana and Angola in West Africa with Tullow Oil and ENI

Newfoundland, Canada with Exxon Mobil

### Contact Us, Locations



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DNV QA Accredited to **ISO 9001** (2008), **ISO 14001** (2004) & **OHSAS 18001** (2007) Standard