JBC Newsletter

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Lundin Edvard Grieg
25Te Intervention Deck Cranes

In Focus
Goliath & Semi Goliath Cranes

2015
A year in the life of a site engineer
Editorial

We would like to take this opportunity to extend our best wishes to all of our readers in 2016. The coming year will be challenging for all companies associated with the energy sector. Whilst we can't hide from this fact 2015 proved to be a year in which we received project awards for North America, Norway, UK, Australia, The Middle East and Kazakhstan. As in 2014 the majority of our order book was for explosion protected overhead bridge cranes. Encouragingly though we saw an increase in orders for Jib Cranes, Monorail Trolley Hoists and miscellaneous material handling equipment.

We continue to grow our Mid-Stream LNG Project portfolio in conjunction with growth in both the upstream and downstream sectors.

We look forward to being able to share some project information with you in future editions and thank you for your continued interest in J Barnsley Cranes.

Director - J. Satchwell

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In Focus

Goliath & Semi Goliath Cranes

J Barnsley Cranes have been manufacturing goliath & semi-goliath cranes for the oil and gas, power generation, water treatment, pharmaceutical and chemical industries for over 25 years.

Goliath & Semi-Goliath cranes designed specifically for Zone 1 or Zone 2 hazardous areas worldwide including motors and electrical systems in ignition protection mode, “flameproof” enclosures: Ex de IIB/IIC T4 & Ex ndeA IIB/C T3.

Also known as Portal Cranes they can be supplied with spans in excess of 20 metres and with single or double cantilevers at each end of the crane. We can offer both single girder or twin girder goliaths and where there is one side of supporting steelwork we can offer them as semi goliath cranes. Goliath cranes can be used inside where the existing structure is not adequate for additional loading or free standing steel work is not possible.

Cranes designed to:
- BS 2573 1983, Part 1 and 1980 Part 2
- BS EN 13001-2:2014
- DD CEN/TS 13001-3-2
- DIN 1508 H2 B3. & FEM
- Supply of Machinery (Safety) Regulations, 1992 (S.I. 1992/3073)

Country Approvals:
- ATEX (Europe)
- IECEx (International)
- CUTR (Russia)
- ENACT/DPP (Algeria)
- CSA (Canada)
- CMAA 70 (USA)
- AS/NZS 60079 (Australia/New Zealand)

Please contact our sales team at sales@jbarnsleycranes.com for further information.
Lundin Edvard Grieg

J Barnsley Cranes have delivered a package of Explosion-Proof Cranes for the Edvard Grieg Topsides facility. The cranes were installed at Kvaerner’s Stord fabrication yard in Western Norway. The platform will be located in PL338 in block 16/1 in the North Sea approximately 180Km West of Stavanger.

The Edvard Grieg field consists of a platform resting on the seabed (steel jacket), with a full process facility, dry wellheads with external jack-up drilling and living quarters. The platform has been successfully installed and commissioning is ongoing.

The Edvard Grieg platform is designed as a field centre and will receive and process hydrocarbons from other discoveries in the surrounding area. A dedicated pipeline has been laid from the Edvard Grieg platform to the existing Grane oil pipeline for export to the Sture oil terminal. Similarly, a dedicated gas pipeline has been laid to the SAGE transport system on the UK shelf for export of rich gas to St. Fergus in Scotland.

Prior to leaving our works both static and dynamic load tests were performed on our Load Test Rig. The test rig not only allows for a 125% static load test to be performed but also a 100% dynamic load test also giving the client the assurance that the crane is functioning correctly prior to leaving our works.
Installation of 25Te Wellbay Crane

J. Barnsley Cranes arrive at Kvaerner’s Facility in Stord, Norway

Crane Specifications

- S.W.L.: 25Te
- Span: 18.2m
- Lifting height: 17m
- Cranes Design: Norsok R-002
- Area Classification: Zone 2, Gas Group IIB, Temp T3
- Supply Voltage: 690v 3ph 60Hz
- Non-Sparking Wheels, Hook and Anti-Derailment Device, Anti-Collision, Radio Control, Maintenance Walkway
Notes from Head Office

Internationally Accepted Name in the World of Explosion-Proof Cranes and Hoists

Exporting cranes accounts for almost 90% of our business today. This means working with Operators/Engineering houses on a global scale in the early stages of Design.

**PRE-FEED/FEED Assistance**

Working together with engineering houses in Pre-FEED/FEED stage allows for technical issues to be clarified before the project moves into the EPC phase. In many instances over the last few years our design department have provided technical assistance with issues such as space restrictions regarding headroom and side approach dimensions, hoist redundancy issues, low temperature requirements and special cable and gland requirements.

Most cranes especially ones destined for Offshore Installations/vessels are designed around tight dimensional restrictions. The 100Te BOP Cranes on the Exxon Mobil Arktun-Dagi Platform were two such cranes where space restriction and hoist redundancy were just two issues facing our design team.

**Documentation**

Our documentation team have become extremely adaptable to the different requirements of engineering houses around the world. Typical documentation levels can be viewed via our website with documents regularly submitted in a number of languages depending on the location of the project. Our equipment comes with the relevant country type approvals - ATEX, IECEX, CSA, CUTR, ENACT/DPP, etc ... A necessity for doing business on a global scale

**Site-Assistance**

As an exporter of cranes and hoists we are expected to provide site assistance during the commissioning phase of the projects. We have a number of suitably qualified engineers who together with local site assistance mobilise to the site location to install and commission our cranes. In 2015 we have mobilised engineers to Abu Dhabi, Dubai, Qatar, Algeria, Norway, Australia, Kazakhstan and Korea.
I have worked for J Barnsley cranes for over a decade, and working overseas on and off for the majority of those years, you get to experience different locations, climates, personalities, safety practices and expectations.

At the start of 2015 I was mobilized to undertake the task of installing two 64/9T EOT cranes on the QCLNG gas processing plant on Curtis island, Queensland Australia. QCLNG became the world’s first LNG facility to be supplied by natural gas sourced from coal seams, the gas reaches the plant on Curtis Island it is chilled to -162 degrees Celsius, changing its state to a liquid form which makes it 600 times smaller enabling it to be stored and transported in LNG vessels to markets around the world.

With any new project there are always new things to experience, obstacles to overcome and constant learning. Due to Australia having an abundance of minerals and a high demand for mining, strict health and safety rules are set in place to help protect the thousands of workers in the construction industry.

At J Barnsley cranes, we are nurtured around safe practices of work and taking a step back before starting a job, but there is always much to learn and if a job can be done safer, do it. Working in Australia helped me capitalise on this.

After arriving at QCLNG in January 2015, the beams to position the crane rails were not yet installed, these all had to be fully aligned within the relevant Australian standards, once complete this allows the crane to be installed to crane tracks and all of the ancillary equipment can start to be installed.
On a construction site of this size with thousands of employees from different trades trying to achieve different goals, conflicts of interest and personality clashes can sometimes lead to increased tension but I am pleased to say the project progressed and ultimately everyone reached their goal and went home safely.

Your day isn’t just confined to work though, you roughly work a 10-12 hour day, once you’re finished you can relax, go to the gym, go for a swim, enjoy the local amenities or whatever takes your fancy, just until that 5am alarm goes off again!

As QCLNG went into commissioning there was a presence of hydrocarbons which, if ignited, could be catastrophic. The majority of the equipment we work with is suited for hazardous areas and we are trained to work with such equipment, the risk factor is raised and the controls in place become even more restrictive, the final crane was commissioned and load tested and ready for operation.
As J Barnsley cranes’ time at QCLNG started coming to an end, another project in north western Australia was getting well underway.

Barrow island, an “A-class” reserve, the highest level of conservation protection available for Crown land in Australia, with 24 native species found nowhere else on earth. The animals are 10 per cent larger than mainland creatures, because they’re not scrawny from running for their lives. It is also home to Australia’s largest gas project, Gorgon, being built by American company Chevron.

Most important are the island’s remarkable quarantine procedures, including the shrink-wrapping and fumigation of pallets of incoming equipment, to stop mice, rats, snakes, insects and plant matter from making a break for it and starting new life on Barrow. Even Bulldosers are shrink wrapped!

From the start, enduring a one week induction highlighting the significance of the protected environment, the outstanding level of health and safety the quarantine procedures it was an interesting project.

The conditions were harsh, temperatures that come close to standing inside a giant oven, small flies constantly harassing you, and long days. Again similar to the QCLNG project, the health and safety culture was extremely vigilant and sometimes maybe over the top, but none the less there was still a job to do and it has to be done safely.
After my most interesting year to date working with the company, by the middle of December I was back on home soil and gearing up for Christmas. Not before one last minute trip to Norway’s Ekofisk field, located in the Norwegian sector of the North sea, accessible by helicopter only. It was a short and welcomed trip to carry out some minor repairs and modifications, Home just in time for the Christmas parties. 2015 proved to be the most interesting and challenging year to date.

Working here proved slightly challenging as it was much more remote than Curtis island. For an 8000 strong workforce, many rules have to be in place and enforced both at work and back on camp unable to leave you have to adapt your mindset and use it as a positive thing. The recreational facilities are state of the art. The food is second to none. The rules are strict. You can be sacked for feeding the wild animals running about camp.

The job here entailed commissioning two 100/15T EOT cranes, designed for maintenance of the GE compressors for cooling the Gas from the Jansz-Logasfields 200km off the coast to LNG ready for transport. Rigorous testing and checks were completed before allowing the cranes to be energised, final stages of construction were completed i.e. fitting the wire rope and bottom block removed for transportation and the Hazardous area compliance checks. During the commissioning phase, all creases were ironed out and the load test could take place, test loading the crane at 110 tonne.
J. Barnsley Cranes
Quarterly Newsletters

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