Shell Prelude FLNG
Explosion proof cranes installed in Korean shipyard

Conoco Phillips
Ekofisk 2\4Z

In Focus
Manual Spark Proof Hoist Units

Experience List
New International Projects
Editorial

Welcome to the first issue of the JBC newsletter. This publication is designed to increase awareness of our existing product range and current ongoing international projects. 2014 has been a very busy period for the company with new project awards in Australia, China, North America, Middle East and both the UK and Norwegian sectors of the North Sea. Our order book this year has seen a mix of Upstream, Mid-Stream and Downstream projects with our explosion proof cranes making up the bulk of the orders. I hope you enjoy reading the magazine and also your interest in J Barnsley Cranes.

Managing Director - J. Satchwell

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In Focus

Manual Spark Proof Monorail Hoists

Our extensive range of spark proof manual hoist units come in various configurations and capacities:

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<table>
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<tbody>
<tr>
<td>Trolley (Push travel)</td>
<td>0.5-10t</td>
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<tr>
<td>Trolley (Geared travel)</td>
<td>0.5-20t</td>
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<tr>
<td>Hook Suspension</td>
<td>0.5-20t</td>
</tr>
<tr>
<td>Monorail Hoist (Push travel)</td>
<td>0.5-10t</td>
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<tr>
<td>Monorail Hoist (Geared travel)</td>
<td>0.5-20t</td>
</tr>
<tr>
<td>Ultra Low Headroom Monorail Hoist (Geared travel)</td>
<td>0.5-20t</td>
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</table>

There are also options for articulated trolleys to negotiate tight bend radiuses.

Hoist safety features at a glance:

- Protection against overloading
- 5:1 Hoist Chain Safety Factor
- Load Chain | Material-Grade ‘T’ High Tensile Steel
- According to DIN EN 818-7. (ASTM A391/A391M-07)
- Brass Hand Chains
- Asbestos-Free Brake Linnings
- Wheels in AB2 Bronze Anti-Sparking Material
- Hook in Bronze Anti-Sparking Material
- Stainless Steel Slack Chain Collector

Please contact our sales team at sales@jbarnsleycranes.com for further information.
The Prelude FLNG system will be used in the Prelude and Concerto gas fields in the Browse LNG Basin, 200 km off the coast of Australia; drilling is expected to begin in 2017, and have a planned life expectancy of 25 years.

Prelude FLNG is the world’s first floating liquified gas platform in addition to being the largest offshore facility ever constructed. It is 488 metres (1,601 ft) long, 74 metres (243 ft) wide, and made with more than 250,000 tonnes of steel.

The photograph on the following page shows the 75Te Double Girder Ex Compressor Crane being installed in the yard in Korea.
Crane Specification

SWL: 75Te
Span: 14.01m
Lifting height: 25.5m

- Cranes designed to ATEX & IECEx for all Electrical Equipment – ATEX for overall package
- Rack & Pinion Design
- Area Classification: Zone 2 Gas Group IIA, Temperature T3
- Supply Voltage: 690v 3ph 60Hz
- Mobile Pendant control

Features

- IP56 Enclosure Protection
- Overload Protection
- Thermistor Protection to Motors
- Non-sparking Bronze Wheels & Ramshorn Load Hook
- Non-sparking Anti-Derailment device for Crab and Crane
- Stainless Steel Festoon Systems
- JBC OSPS1 Paint specification
- Single Walkway with Hand Rail
- Storm Parking Anchors
Notes from Head Office

Cranes supplied to a variety of different sectors

Over the last three years we have seen an interesting variation in sectors to which our cranes are headed. J Barnsley Cranes is known internationally as a market leader in the design, manufacture and installation of Explosion-Proof overhead Cranes which has been built up from decades of experience. We have a number of engineers who have worked with J Barnsley Cranes for many years resulting in the company being held in high esteem by some of the biggest onshore and offshore operators worldwide.

We take pride in the service we offer from initial design concepts through to the final installation and commissioning of our cranes and hoists. By working together with operators and engineering houses in the pre-FEED and FEED stages gives our clients reassurance that the mechanical handling concept initially drawn up can be seen through to completion and make the EPC stage of the project a smoother process.

Facts about our products:

- An extensive range of hoist and crane components at every desired capacity up to 100Te
- Technically mature special-purpose cranes and hoists providing customised solutions
- Professional Support for all documentation requirements
- Certification in line with ATEX, IECEx, GOST, CSA
- Cranes suitable for Safe Area’s, Zones 1, 2, 21 and 22

This edition of our newsletter concentrates on offshore projects in both our case study’s and also our recent experience list but we have also been involved in several LNG and Downstream projects over the years for which experience lists will be contained in future editions. J Barnsley Cranes will continue to provide support and back-up on all completed, ongoing and future projects which is the one of the main reasons we continue to grow, particularly in the oil and gas sector.
J.Barnsley Cranes provide the complete explosion proof crane package including: Specialist EX cranes, EX ships cranes, jib cranes, spark resistant manual cranes, spark resistant manual hoists and specialist EX materials handling equipment.

Our extensive explosion proof crane experience is displayed via our clients page which lists J.Barnsley on-shore and off-shore crane projects worldwide. We continue to provide explosion proof cranes for the oil, gas, chemical, nuclear, water and sewage, power generation and waste handling industries.

J.Barnsley Cranes are approved by quality accreditations including our ISO 9001 Certificate, formally recognising our quality system for explosion proof crane design, manufacture and installation.
ConocoPhilips Ekofisk 2\4 Z Well Head Platform

Ekofisk 2\4 Z is a well head platform in the ekofisk complex located in the North Sea, Norwegien Sector. The platform is designed and constructed to carry out multiple simultaneous operations such as production, dilling and well maintenance.

A number of explosion proof overhead cranes were installed at a facility on the west coast of Norway in 2013. The following page shows an image of testing using water bags with a weight of 25T. The cranes were comissioned and handed over in November 2013.
Crane Specification
SWL: 25Te
Span: 19.35m
Lifting height: 16.78m
- Cranes designed to Norsok R-CR-002
- Area Classification: Zone 2 Gas Group IIB, Temperature T3
- Supply Voltage: 690v 3ph 60Hz
- Radio controlled with Back-Up Pendant

Features
- IP66 Enclosure Protection
- Overload protection
- Thermistor Protection to Motors
- Non-sparking Bronze Wheels & Load Hook
- Non sparking Anti-Derailment device for Crab and Crane
- Stainless Steel Festoon Systems
Our quality management system is approved by Lloyds Register in accordance with ISO 9001:2000. The system is applicable to: Design and Manufacture of Cranes and Material Handling Equipment. Management of associated site activities.


J. Barnsley Cranes install cranes throughout the world. Our Qualified and Professional Engineers have vast experience of Crane Installation in order to get the right solution to meet our customers needs.
## Experience List - Offshore

A selection of new international offshore projects from J.Barnsley Cranes.

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>COUNTRY</th>
<th>OPERATOR</th>
<th>ENG. HOUSE</th>
<th>EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hebron GBS</td>
<td>Canada</td>
<td>Exxon Mobil</td>
<td>Worley Parsons</td>
<td>5 * EX Cranes, Monorail Hoists, Materials Handling Package</td>
</tr>
<tr>
<td>Gina Krog</td>
<td>Norway</td>
<td>Statoil</td>
<td>DSME</td>
<td>5 * EX Cranes</td>
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<tr>
<td>Edvard Grieg</td>
<td>Norway</td>
<td>Lunedin</td>
<td>Kvaerner</td>
<td>EX Cranes</td>
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<tr>
<td>Stones FPSO</td>
<td>Gulf of Mexico</td>
<td>Shell</td>
<td>SBM</td>
<td>Various Manual Spark-Proof Hoists</td>
</tr>
<tr>
<td>Arktun Dagi Platform</td>
<td>Russia Sakhalin</td>
<td>Exxon Mobil</td>
<td>Worley Parsons</td>
<td>7 * EX Cranes, Monorail Hoists, Materials Handling Package</td>
</tr>
<tr>
<td>Prelude FLNG</td>
<td>Australia</td>
<td>Shell</td>
<td>Technip</td>
<td>5 * EX Cranes</td>
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<tr>
<td>Mariner Platform</td>
<td>UK</td>
<td>Statoil</td>
<td>CB&amp;I / DSME</td>
<td>4 * EX Cranes</td>
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</tbody>
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