JBC Newsletter

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www.jbarnsleycranes.com

DESIGN • MANUFACTURE • INSTALL

Working Together with Major Engineering Contractors Globally
Upstream, Mid-Stream & Downstream

Hebron
Topsides Package

In Focus
Offshore Bridge Cranes

Baytown
Refinery Expansion
Welcome to the final issue of our newsletter in 2016. In this edition we focus on the high quality components that make up our Explosion Proof cranes bound for the harsh environments encountered in the offshore sector. We also look at an offshore project recently commissioned in Canada and an Onshore Downstream project in Houston, Texas.

2016 has seen our company move into the manufacturing phase of a very large wellhead pressure management project in Kazakhstan. The manufacturing phase is staggered with Explosion proof Bridge Cranes & Rail Mounted Jib Cranes making up the majority of the package. Manufacturing will continue on this project well into 2017.

We hope you enjoy reading this final issue of 2016 and your continued interest in J.Barnsley Cranes Ltd.

Director - J. Satchwell
The TCR, TCS and TNC series of pneumatic hoists are suited to all types of industrial and marine environments. For use in areas where there is a risk of explosion due to flammable gases or dust, we can offer a range of ATEX classifications to suit your requirements.

We have the perfect lifting solution for where the duty is high, or where a robust hoist is required to withstand harsh conditions. As standard, our pneumatic hoists are able to work within a temperature range of -10°C to +70°C, with some slight modifications we can make the hoists suitable to be used at -20°C.

**DESIGN FEATURES:**
- TOKU high quality vane motor and epicycle gearbox with long life grease
- Overload protection
- High strength cast steel housing for durability
- Variable speed for raising and lowering accurately
- Alloy steel hooks with safety catches (Bottom hook fitted with thrust bearing for easy operation)
- Failsafe automatic disk brake (fully enclosed) ensures the load cannot fall if power is lost
- Mechanical upper and lower hoist limits
- Low noise level down to 80 dB (Silencer and filter easily changed)
- Special designs of hoists and trolleys
- Ex classification to EC directive 94/9/EC (ATEX models)
- Various paint specifications and colours
Hebron - Topsides Package

The Hebron oil field is located offshore Newfoundland and Labrador, Canada in the Jeanne d’Arc Basin 350 kilometres southeast of St. John’s.

The Hebron field is being developed using a stand-alone concrete gravity based structure (GBS). The GBS consists of a reinforced concrete structure designed to withstand sea ice, icebergs and meteorological and oceanographic conditions. The GBS is designed to store approximately 1.2 million barrels of crude oil. Fabrication of the Derrick Equipment Set (DES) and the Utilities/Process Module (UPM) of the topsides was carried out in Ulsan, Korea.

20/5Te Hazardous Area Wellbay Intervention Area Crane

Korean Fabrication Facility in Ulsan

20/5Te Double Girder Underhung Hazardous Area Crane for Firewater & Seawater Pumps
Over the last 25 years J Barnsley Cranes has manufactured and installed numerous Hazardous Area Bridge cranes specially designed for use in the Offshore Sector. Our cranes have been installed on Fixed Platforms, Semi-submersibles, FPSO’s, FLNG’s and TLP’s. The specifications of the cranes have to be of the highest standards to withstand the harsh conditions faced offshore. Our cranes and hoists are available with ATEX / CSA / CU TR / IECEX or NEC / UL certification depending on the region.

Below is a selection of photo’s showing some of the features that are included as a minimum.

Solid Bronze Cross & Long Travel Wheels

Anti-Corrosive Offshore Paint Systems

Hoist/Trolley Mounted In-Between Crane Girders
Compact/Low Headroom Design

Stainless Steel Cable Tray,
ATEX Certified Visual & Audio Alarm
316 Grade Stainless Steel Electrical Enclosures

ATEX Certified Cross Travel Motor

Request Quotation

Please check our website or contact our sales team for further information.

www.jbarnsleycranes.com
sales@jbarnsleycranes.com

ATEX Certified Round Cable Glands

Highly Specialised Flexible Galvanised Hoist Rope, Rope guide in Spheroidal graphite cast iron and spring to ensure tension on rope. Minimum 3 dead turns of rope on drum.

ATEX Certified Drag Chains with Stainless Steel Trough
Baytown - Refinery Expansion

Through a well-known engineering house in Germany J Barnsley Cranes has supplied a number of Hazardous Area Electric Explosion Proof Cranes on the ExxonMobil Baytown Refinery Project.

The project is a multi-billion dollar ethane cracker. This project, and major investments ExxonMobil has made to develop oil and natural gas resources in the United States, including the merger with XTO Energy, demonstrates the company’s continuing commitment to American economic growth and job creation.

The steam cracker will have a capacity of up to 1.5 million tons per year and provide ethylene feedstock for downstream chemical processing, including processing at two new 650,000 tons per year high performance polyethylene lines at the company’s Mont Belvieu plastics plant.

SPECIFICATIONS:
• Anti-Collision Systems fitted to 100Te Compressor House Cranes
• Galvanized lifting rope
• Thermistor motor protection
• Stainless steel limit switch mechanism
• Non-sparking wheels
• Non-sparking anti-derailment device & seismic restraints
• Non-sparking hook. (c/w spring hook safety catch)
• Travel/Traverse Limit Switches.
• Open grid floor maintenance walkway 600 wide to client specification
• Visual and audible alarms on crane travel
• Workshop test in accordance with ASME b30.2-2011
• Crane design in accordance with ASME B30.2-2011, CMAA70, BS466:1984, BS2573:PART 1:1983 & PART 2:1980
• Area Classification:
  CLASS1, DIV 2 Ex GROUP B,T3 acc NEC 500 Hazardous Area
• Crane Rating: CLASS C, L2,N2,H2 (CMAA70)
100Te Double Girder Electric Explosion Proof Compressor House Crane

Explosion Proof crane control Panels
J. BARNESLEY Cranes Limited

Global Installation & Commissioning Team
J. Barnsley Cranes
Quarterly Newsletters

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