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.
J Barnsley Cranes have been manufacturing cranes for the oil and gas industry for over 25 years. We have particular expertise in manufacturing explosion-proof cranes for hazardous environments worldwide.

**CRANE TYPES**

- **Single Girder Top Running Bridge Crane**
- **Double Girder Top Running Bridge Crane**
- **Single Girder Under-Slung Bridge Crane**

J.Barnsley cranes are designed specifically for Zone 1 or Zone 2 hazardous areas including motors and electrical systems in ignition protection, ‘flameproof’ enclosures Ex de IIB T4 & Ex ndeA IIB/C T3.

With spans up to 35m and capacities up to 100Te we work with engineering houses around the world on specially designed cranes for standard and off-standard applications.
Specifications

- The crane structure is manufactured from material according to EN 10025 GRADE S275 JR. Designed to withstand all imposed loadings, with a maximum deflection of 1/750th of the span.

- The crane is driven by a matching pair of braked motors. The drive is transmitted through a direct, live axle, maintenance free, gear box via hardened and ground helical gears in a sealed oil bath. Operation is via a single reversing contactor type controller with an automatic slow to fast speed timing device. This provides smooth acceleration and a balanced tandem operation with no skidding or crabbing of the crane in any load permutation.

- A 600mm wide access walkway with gate is provided along one girder. (Double girder cranes only)

- The proprietary series built hoist unit would be selected from our extensive range of units which have a world wide reputation for reliability, modern design, safety and the very latest manufacturing techniques.

- The rope drum is mounted in maintenance free bearings (Located within the hoist bearer frame). The drum is accurately machine grooved to accommodate the hoisting rope in one layer. It is also designed to leave a minimum of 3 (three) turns on the drum when maximum lift height is reached. A rope guide is provided to prevent slack rope and to smoothly guide the rope onto the drum.

- The bottom hook block is of the safety type, having fully guarded deep grooved sheaves, running in sealed ball bearings. The hook is a forged steel single point “C” Type, mounted on a ball thrust race and fitted with a spring return safety catch.

- The special non-rotating hoist rope is manufactured from high strength galvanised steel. The standard construction is 6*36+SES with a minimum safety factor of 5:1. Over-hoist/over-lower limit switches are provided located within the hoist control panel.

- The Hoist & Travel drive motors with integral brakes are totally enclosed, fan cooled and are of squirrel cage induction type. They have class “F” insulation with class “B” temperature rise. The motors are tropicalized and climate proof with a minimum electrical protection of IP55.

- The heavy duty, totally enclosed, fail safe disc brakes are automatically and instantaneously applied when the power supply is interrupted. Brake linings are asbestos free.

- Electrical control of the complete crane would be from floor level via a heavy duty, weather-proof pendant control station. This is fully mobile across the crane span to allow operation of the crane at a safe distance from the load. Radio control is also available for safe and hazardous areas.

- A watertight control panel would be mounted at one end of the crane bridge containing the complete control systems. This comprises of a pair of electrically and mechanically linked contactors for each crane motion.
Technical Features

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

**YCLHY:** Combined Low Headroom Monorail
**YHSY:** Hook Suspension
**YLHY:** Ultra Low Headroom

**Designed according to:**
BS EN 13157 & BS 3243
Supply of Machinery (Safety) Regulations, 1992 (S.I. 1992/3073)
ATEX Directive 214/34/EU

**Hoisting/lowering:** Manually operated by endless pendant brass hand chain

**Travelling:** Manually operated by endless pendant brass hand chain

**Environment:** Hazardous Area Zone 1 & 2. IIA/IIB T3. ATEX.

**Safety Features:**
- Overload protection device
- Stainless Steel Slack Chain Collector

**Load Chain:** Material-Grade 'T' High Tensile steel

**Spark Resistant Materials:**
- Brass hand chains
- Bronze trolley wheels
- Bronze load chain sprocket
- Bronze Idler chain Rollers
- Bronze brake ratchet wheel
- Bronze Coated High Tensile, Forged Steel, Hook and Safety Catch

**Anti Corrosion Protection:**
- Load chain Galvanised
- Galvanised Cast Steel Hand Chain wheels
- Galvanised Hand Chain Guide
- Galvanised Stay Bars, Washers & Nuts
- Zinc Plated Fasteners

**Surface Treatment:**
3-Coat Epoxy Marine Painting System
Type: OSPS-1
Shot Blast to SA 2.5
Total DFT: 220
Colour: 08E51 Golden Yellow
Our comprehensive range of pneumatic trolley hoists are suited to all types of industrial and marine environments. They are designed for use in areas where there is a risk of explosion due to flammable gases or dust. We have the perfect lifting solution for where the duty is high, or where a robust hoist is required to withstand harsh conditions.

We can offer a range of ATEX classifications to suit your requirements.

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
- Compact and lightweight for easy handling
- Variable speed for raising and lowering
- Alloy steel hooks with safety catches
- Mechanical upper and lower hoist limits Lifting heights to meet your needs
- Choice of cord, pendant control or control systems
- Low noise level down to 80 dB (Silencer and Filter easily changed)
- Air pressure from 4.5 to 6 Bar (7 Bar maximum)
- Durable in harsh environments
- Self cooling air motor with the exhaust over the motor
- Spark-Proof materials available on request
J.Barnsley Cranes has been supplying the SH Wire Rope Hoist Model into the Oil & Gas, Pharmaceutical, Chemical, Nuclear and Automotive Industries for over 25 years. The SH wire rope hoist programme has been the embodiment of perfection in lifting and crane technology all over the world for many years.

As a market leader in the explosion proof crane industry we appreciate the modular system based on field proven, low maintenance components.

Series manufacture of the standard components means economic advantages for the client. This combined with precise manufacture of off-standard components makes the SH wire rope hoist a widely acknowledged top quality product.

The SH Monorail series is available for the load capacity range 500-25000 Kg in five frame sizes with 26 load capacity variants.

Various off-standard designs are available for use in particular conditions. IP66 protection for example is required for outdoor use when the hoist can be exposed to the harsh environment. Space heaters can be added if there is a danger of formation of condensation or in arctic temperatures.
J.Barnsley Jib Cranes are explosion protected for use in Zone 1 or Zone 2 hazardous areas worldwide. Standard features include motors and electrical systems in ignition protection mode, “flameproof” enclosures: Ex de IIB/IIC T4 & Ex ndeA IIB/C T3, hooks and “ferrous to ferrous” items in non-sparking materials. Operation can be by push travel, hand geared, pneumatic and electric (pushbutton or radio control).

Our Jib Cranes help to increase effectiveness of labour, e.g. in preventing waiting time for EOT cranes, which coupled with their competitive price pays for the initial cost very quickly.

<table>
<thead>
<tr>
<th>STANDARD JIB CRANE TYPES</th>
<th>CAPACITY</th>
<th>RADIUS TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall Mounted (Over braced)</td>
<td>0.08-12t</td>
<td>6m</td>
</tr>
<tr>
<td>Wall Mounted (Under braced)</td>
<td>0.15-10t</td>
<td>12m</td>
</tr>
<tr>
<td>Floor Mounted (Over braced)</td>
<td>0.08-2t</td>
<td>6m</td>
</tr>
<tr>
<td>Floor Mounted (Under braced)</td>
<td>0.15-10t</td>
<td>12m</td>
</tr>
<tr>
<td>Floor Mounted (Without brace)</td>
<td>0.15-10t</td>
<td>20m</td>
</tr>
</tbody>
</table>
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 specially 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.
Upstream Projects

Hebron - Topsides Package
Edvard Grieg - Offshore Platform
Shell Prelude FLNG
Ekofisk 2/4 Z Wellhead Platform
Eldfisk Platform 2/7 S
Hebron - Topsides Package

The Hebron oil field is located offshore Newfoundland and Labrador, Canada in the Jeanne d’Arc Basin 350km 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.

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.

**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
Installation of 25Te Wellbay Crane

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

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 with 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 (1,601ft) long, 74 metres (243ft) wide, and made with more than 250,000 tonnes of steel.

The photograph on the following page shows the J.Barnsley 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
Ekofisk 2/4 Z Wellhead Platform

Ekofisk 2/4 Z is a wellhead platform in the Ekofisk Complex with 36 well slots, 35 of which are for production and one is dedicated to the reinjection of cuttings. The wells will be drilled by a jack up drilling rig placed next to the 2/4 Z-platform.

The platform is designed and constructed to carry out multiple simultaneous operations, such as production, drilling, well maintenance and well intervention activities.

A number of explosion proof overhead cranes were installed at a facility on the west coast of Norway in 2013. The image shows testing using water bags with a weight of 25T. The cranes were commissioned 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
Eldfisk is an oil field that also contains some gas. The field was discovered in 1970, approved for development in 1975 and started production in 1979.

Eldfisk is the second largest of four producing fields in the Greater Ekofisk Area and one of the largest on the Norwegian continental shelf. The field is located in block 2/7, about 16 kilometers south of Ekofisk, not far from the UK and Danish shelves. The water depth in the area is just under 70 meters.

Eldfisk is developed with a total of four platforms. Three of them are connected with bridges (the Eldfisk Complex), while the fourth, Eldfisk 2/7 Bravo, is located about six kilometers northwest of the Eldfisk Complex. The Eldfisk II project will contribute to continued production towards 2050. The integrated platform Eldfisk 2/7 S was installed in 2014 and production is started in 2015.

J. Barnsley Cranes engineers assisted COP/Kvaerner with the Installation and commissioning at the Kvaerner yard in Stord, Western Norway.

2*25Te Explosion Proof cranes were installed on the topsides module on the Intervention Deck and a 6Te Crane Explosion Proof Crane on the Mezzanine floor.
LNG Projects

AP LNG
Shell Prelude FLNG
QC LNG
Gorgon LNG
Icthys LNG
Wheatstone LNG
**AP LNG**

Conoco Phillips has over 40 years experience in operating and developing LNG facilities around the globe. Working with engineering house Bechtel, J.Barnsley Cranes as supplied four Compressor House Bridge Cranes along with a number of Jib Cranes. The compressor cranes are rated at 64Te (55Te Main Hoist / 9Te Auxiliary) and were designed in accordance with AS1418.1, AS1418.3, BS466, CMAA 70, AS/NZS 60079 and IECEX. The area designated as Hazardous Area Zone 2.

**Shell Prelude FLNG**

In 2013/14 the Topsides modules were installed onto the Hull of the Prelude at the SHI yard in Korea. Some of the modules alone weighed as much as a typical offshore platform. J Barnsley Cranes supplied a total of five Explosion Proof Bridge cranes on the project the largest being the 75Te Double Girder Compressor House Crane. The engineering house on the project was Technip in France. The cranes were designed to ATEX and IECEX and are suitable for Hazardous area Zone 2.

**QC LNG**

This BG Group facility had virtually identical equipment to that of the AP LNG Project. Again working with engineering house Bechtel, J.Barnsley Cranes has supplied four Compressor House Bridge Cranes along with a number of Jib Cranes. The compressor cranes are rated at 64Te (55Te Main Hoist / 9Te Auxiliary) and were designed in accordance with AS1418.1, AS1418.3, BS466, CMAA 70, AS/NZS 60079 and IECEX. The area designated as Hazardous Area Zone 2.
Shell Prelude FLNG
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.

Wheatstone LNG
The Wheatstone facility is expected to have a capacity to produce up to 25mtpa of LNG. The initial phase is expected to have a capacity of 8.6mtpa LNG, with the final investment decision to be announced in 2011. Gas will be processed at an onshore facility located at Ashburton North, 12km west of Onslow in Western Australia’s Pilbara region.

Gorgon LNG
The Gorgon Project is developing the Gorgon and Jansz-1o gas fields, located within the Greater Gorgon area, between 130 and 220 kilometres off the northwest coast of Western Australia.

It includes the construction of a 15.6 million tonne per annum (MTPA) liquefied natural gas (LNG) plant on Barrow Island and a domestic gas plant with the capacity to supply 300 terajoules of gas per day to Western Australia.
**AP LNG**

The project involves the development of Australia Pacific LNG’s coal seam gas resources in the Surat and Bowen basins in central south west Queensland, a 520 kilometre transmission pipeline, and a multi-train LNG facility on Curtis Island, near Gladstone, Queensland.

**QC LNG**

The project’s first stage will comprise two processing units, known as LNG trains, at the Curtis Island plant. These trains, which have a design life of at least 20 years, will produce a combined 8.5 million tonnes of LNG a year. The site can accommodate an expansion to 12 million tonnes of LNG a year, subject to demand.

**Icthys LNG**

The Ichthys LNG Project is currently in construction and is ranked among the most significant oil and gas projects in the world. The Ichthys LNG Project is a Joint Venture between INPEX group companies (the Operator), major partner Total, CPC Corporation Taiwan and the Australian subsidiaries of Tokyo Gas, Osaka Gas, Kansai Electric Power, Chubu Electric Power and Toho Gas.
Gorgon LNG

The Gorgon project is operated by Chevron but is a Joint Venture of the Australian subsidiaries of Chevron, Exxon Mobil and Shell. Scope of supply on the project was 6 * 100Te Explosion Proof Double Girder Compressor House Bridge Cranes and 3 * 6Te Bridge Cranes. The project was handled by KBR on behalf of Chevron and our engineers are completing the commissioning in 2016.

Icthys LNG

INPEX Australia discovered the giant Ichthys gas and condensate field in the Browse Basin in 2000. Located about 220 kilometres offshore Western Australia, Ichthys represents the largest discovery of hydrocarbon liquids in Australia in 40 years. Working with engineering houses JGC/KBR in Japan, J Barnsley Cranes have supplied a number of Jib Cranes and monorail hoists.

Wheatstone LNG

The Wheatstone Project is one of Australia’s largest resource developments. Working with engineering house Bechtel, J.Barnsley Cranes as supplied four Compressor House Bridge Cranes along with a number of Jib Cranes and monorail hoists. The compressor cranes are rated at 64Te (55Te Main Hoist / 9Te Auxiliary) and were designed in accordance with AS1418.1, AS1418.3, BS466, CMAA 70, AS/NZS 60079 and IECEX. The area designated as Hazardous Area Zone 2.
Downstream Projects

Baytown - Refinery Expansion
Harweel Cluster Development PDO
In Salah Southern Fields Development Project, Algeria
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.

Crane Specification
- Anti-Collision Systems fitted to 100Te Compressor House Cranes
- Galvanized lifting rope
- Thermistor motor protection
- Non-sparking wheels
- Non-sparking anti-derailment device & seismic restraints
- Non-sparking hook. (c/w spring hook safety catch)
- Open grid floor maintenance walkway 600 wide to client specification
- 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
Harweel Cluster Development PDO

Petroleum Development Oman (PDO) and Petrofac, a leading international provider of oil and gas facilities services, delivered a contract for one of the largest field-development projects ever undertaken by PDO.

The contract for the engineering, procurement and construction (EPC) of a major new oil and gas processing station as well as gas-injection facilities near Harweel, in south Oman - formally launched PDO’s first full-scale enhanced oil recovery (EOR) project.

The EPC contract, valued at just under $1bn, was executed by Petrofac’s Engineering & Construction (E&C) division from its base in Sharjah, UAE.

Included in our scope;
4 * EX Bridge Cranes
9 * Manual EX Sparkproof Cranes
9 * EX Monorail Hoists
6 * Manual EX Sparkproof Cranes

Capacities ranged from;
1Te to 40Te SWL
Crane Specification

- SWL: 25Te
- AUX Hoist: 9Te
- Span: 18m
- Height of Lift: 12m
- Area Classification: Zone 1
- Supply Voltage: 400v 3ph 50Hz
- Ambient Temp: -20°C to +55°C

- Crane design in accordance with - BS 466, BS 2573.1, BS 2573.2
- Double Girder Construction
- Maintenance Walkway
In Salah Southern Fields (ISSF) development project is part of the In Salah Gas (ISG) project, which includes the development of seven gas fields located in the Saharan desert in Algeria. Starting in November 2001, the ISG project is the third largest gas development in the country.

The ISG project is operated by In Salah Gas, a joint venture between Sonatrach (35%), BP (33.15%) and Statoil (31.85%). Three gas fields, namely Krechba, Teg and Reg, were developed during the first phase of the ISG project.

The ISSF project forms the second phase of the ISG project which involves the development of the remaining four gas fields including Garet el Befinat, Hassi Moumene, In Salah and Gour Mohmoud. The project will help in maintaining production at plateau levels when production from the three existing fields declines.

JBC have worked with contractor Petrofac for over 20 years in the oil and gas sector and on this project supplied 2 safe area bridge cranes.
5Te Double Girder Bridge Crane for Workshop Maintenance

10Te Double Girder Bridge Crane for Chrome Pipe Warehouse

Crane Specification
- Area Designation: Safe
- Operating Temperature: +1 to +55°C
- Enclosure Protection: IP55
- Mobile Pendant Control

Features
- Anti-Derailment Device
- Stainless Steel Festoon Systems
- Audible Overload Device
- Single Maintenance Walkway
- True Vertical Lift
Typical Documentation Levels

- Supplier Document List (SDL)
- Production Plan (EPMS)
- Quality Plan, Including Test and Inspection Plan
- General Arrangement Drawings
- GA Panel Layout including Parts List
- Wiring Diagrams
- Cause & Effect Charts
- Instrument Loop Diagrams
- Lubrication Chart & Index
- Tag/Document Reference List
- Recommended Spare Parts List (RSPL)
- ATEX Schedule
- MRB Introduction and Index
- Weld Summary Index
- Electrical Data Sheets
- Noise Data Sheets
- Procedure for Installation and Hook-Up
- Operating & Maintenance Instructions
- Commissioning and Start-up Procedures
- Preservation, Storage, Packing and Unpacking Procedure
- Factory Acceptance Test Procedures & Reports
- Painting Procedures & Report
- NDE Test Procedures & Reports
- Welding Procedure/Specifications With Supporting PQRs
- Material Traceability List
- List of Certificates
- Certificate Of Conformity
- Documentation for CE Marking/EC Declaration of Conformity
- Material Certificates
- Certificates For Re-Certification Of Equipment
- List Of Content (LOC) For Final Documentation
- User Manual/Final Documentation
- Mechanical Completion & Certificates
- Manufacturing Record Book (MRB) - Total Version
PRODUCT DETAILS
INTERACTIVE WORLD MAP of our GLOBAL OPERATIONS
TECHNICAL DATA
newsletters &
brochure download
latest news

VISIT OUR WEBSITE TODAY
www.jbarnsleycranes.com