



*“One Company, Many Locations, Servicing Globally”*



EC  GLOBAL

**Oil & Gas**

# Eilbeck Cranes in Offshore

Eilbeck Cranes is a privately owned, 100% Australian Company established since 1907. Having been involved in engineering for over a century, Eilbeck has gained an invaluable knowledge and understanding of the materials handling industry. Now globally renowned as one of the only remaining Australian companies building large heavy-duty cranes, standard cranes &

special cranes for both onshore and offshore applications, Eilbeck is specialising in the manufacture of cranes and hoists for the Oil and Gas Industry. As Woodside's preferred crane supplier, Eilbeck has supplied special cranes for their LNG plants and offshore facilities in Australia and around the globe.

Onshore LNG plant cranes supplied include Woodside Train 4, Train 5 and Pluto plus replacement cranes for Train 2 and Train 3. GLNG Train 1 & Train 2, Algeria LNG, Nigeria LNG, PNG LNG, INPEX Ichthys LNG, Gorgon LNG and Wheatstone LNG.

Having supplied cranes and hoists for offshore projects such as North Rankin for Woodside and recently special cranes for INPEX's Ichthys LNG Project in the Northern Territory through DSME and SHI, Eilbeck's

capabilities include manufacturing to meet the specialised requirements of TOTAL Specification and DNV including:

- Special design approval & Standards
- Special quality & Inspection

requirements

- Full load testing of cranes up to 120t in house including inclined runways
- Special documentation requirement
- Strict delivery commitments

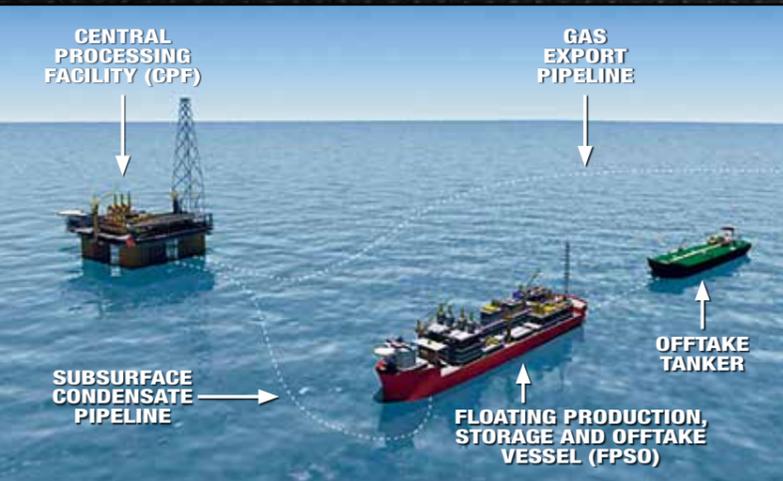


Eilbeck Cranes is FPAL registered company

# Offshore Cranes

Supplied recently cranes for INPEX Ichthys Project have the following features:

- Cranes are based on INPEX Specification (Project specifications are specification of TOTAL)
- Rigorous project quality, special material requirements and material certification as per project specification
- Detailed Hazardous Area Inspection for Australian Standards and project requirements
- DNV Design Verification & Certification
- DNV & Client Inspection
- DNV Load test certification of cranes @125%SWL



70t Thruster Crane for FPSO under load testing



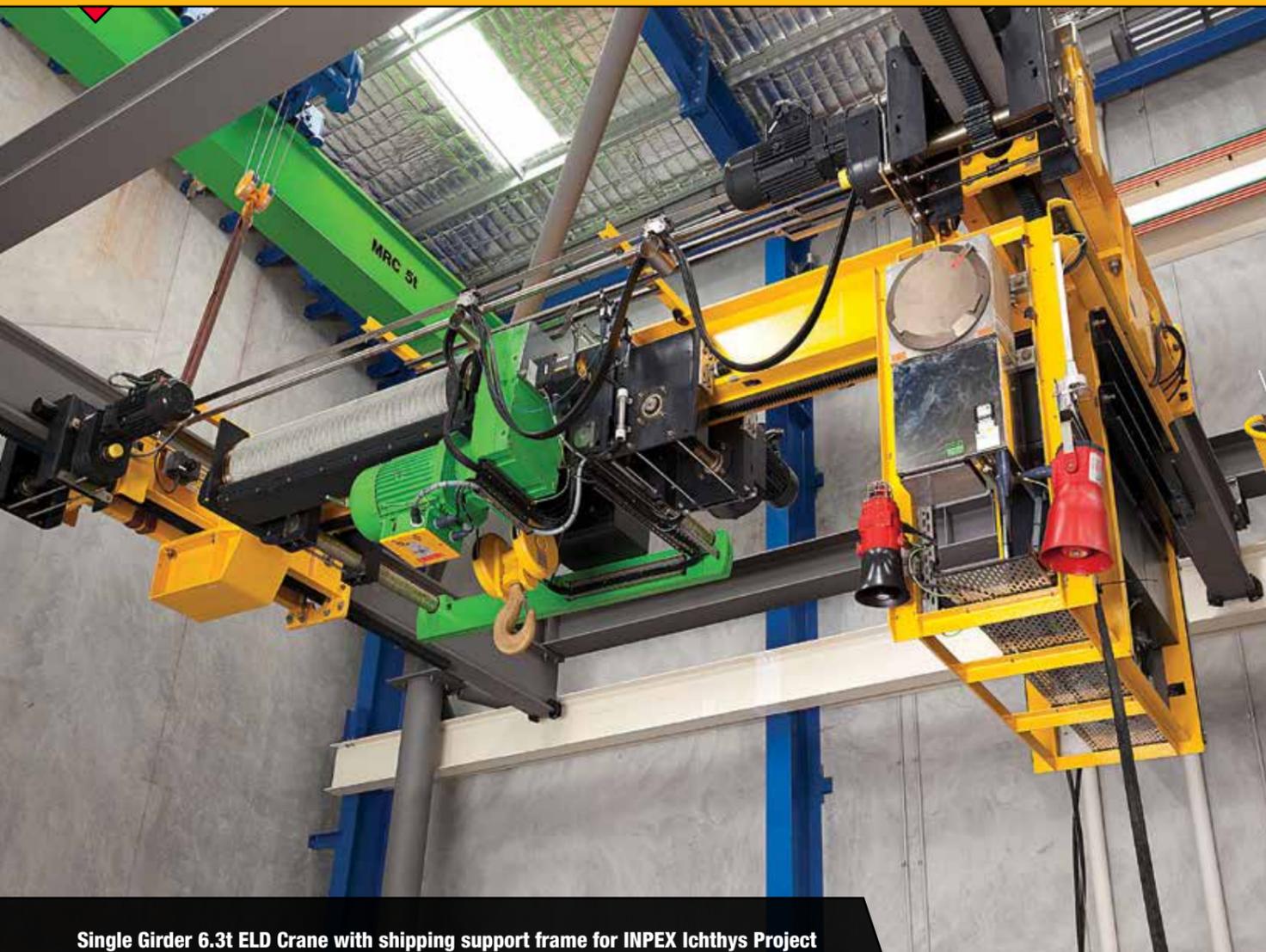
## Product Range

- Overhead Cranes
- Portal (Gantry) Cranes
- Jib Cranes
- Luffing Jib Cranes
- Electric Wire Rope Hoists
- Electric Chain Hoists
- Pneumatic Rope Hoists
- Pneumatic Chain Hoists
- Electric Winches
- Pneumatic Winches
- Hydraulic Hoists
- Hydraulic Winches
- Manual Hoists and Trolleys

12.5t FPSO Crane under load testing

27.5t FPSO Ex Crane under load testing





Single Girder 6.3t ELD Crane with shipping support frame for INPEX Ichthys Project

12.5t EDL Crane ready to be delivered to site



**Packing**

- Project Specification.
- Crane Design to ship to any part of the world in containerised packing.
- 20' ISO container required, lifting points to be removed following loading.

# Onshore Cranes

8 off 63t and 2 off 90t Cranes at Perth manufacturing facility in assemble



In-house load testing of 10t EDL LNG Onshore Crane, LNG Modules transported to Thailand



63t Hoist double rail trolley



20t ZLK Cranes in transport for APLNG site



4t x 6.3m ELK Cranes for Santos GLNG Upstream Project, Flour Manila



30t ZLK Cranes for INPEX Ichthys Project



5t ZLK Crane for Main Sub-station, Ichthys Onshore LNG Facilities Project



100t, 25t and 15t Ex Cranes for Woodside TRAIN 4, 5 and Pluto



# Jib Cranes in Africa



Tank Jib Cranes servicing LNG pumps  
Bonny Island, Nigeria



7.6t x 15m Box Jib Cranes - Entrepose Contracting  
New LNG Train Skikda, Algeria



# Wheatstone LNG Tank Jib Cranes

Project: Wheatstone LNG Project  
 Location: Onslow Western Australia  
 Project Owner: Chevron Australia  
 Engineering, Procurement and  
 Construction: Bechtel Houston  
 Buyer: ETJV (Entrepose France and Thiess  
 Australia)

## Brief description of Cranes:

- 2 off LNG Tank Pump handling Jib Cranes
- Capacity: 7.35t @ 17.125m radius, 5.4t @ 19.125m radius & 0.9t@ 20.125m radius
- Under side of jib arm to base of the jib crane: 11.86m & lifting height 71m
- Zone 2 Ex de IIB T3 IECEx
- Fully designed to project specification
- Full maintenance access ladder and platform

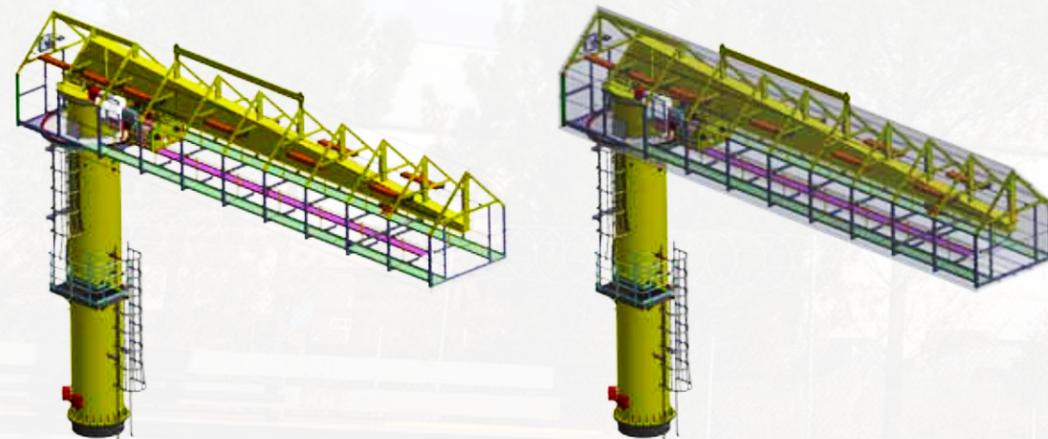
- Non sparking features as solid bronze wheels and bronze coated hooks
- Lightening protection
- Motors and gear box of cast iron body suitable for corrosive environments

- Non-sparking diamond track SS catenary system for power supply system
- Manual lowering in case of power failure

- Designed for cyclonic area complete with manual storm lock



2 off LNG Tank Pump Handling Jib Cranes - Woodside LNG Karratha Plant, Karratha WA



## JSC Yamal LNG

### Cranes for the Arctic region to operate in temperatures dropping to -50°C.

The Yamal LNG Project is an integrated natural gas liquefaction complex with a capacity of 16.5 million tonnes per year developed on the basis of gas reserves within the South Tambey Field. The plant site is located north of the Arctic Circle on the Eastern shore of the Yamal Peninsular in Northwest Siberia, Russia. Average temperatures vary from -27°C in winter to +6°C in summer, with the extreme low of -50°C.

- 4 off 7.5t MRC at 17m jib arm radius and 12.5m to underside of jib arm
- LNG tank Jib Cranes located outdoors on top of LNG tanks
- Special Low temperature steel with minimum V-notch impact strength of the steel 27 joules at -50°C
- All selected components including motors, gear boxes, ropes, limit switches, electrics, lights, cables, control panels, gas detectors, exhaust fan, all suitable for -50°C
- Complete jib arm including all electro-mechanical items such as hoists and controls are enclosed in an insulated

- heated enclosure
- Constantly connected heaters inside the enclosure maintain the internal temperature above 0°C
- Zone 2 IIB T3 as per ATEX
- Designed to European Standards
- Russian certification and dual language documentation (English and Russian)
- The complete assembled jib arm including hoist to be transported on specially designed transport stands and mechanically protected by a steel sheet for sea freight, enclosure size 21m (L) x 4.3m (W) x 4.7m (H)



80/15t Hydraulic Luffing Crane



# Special Features for Classified Area Cranes

## Electrics

Can be designed based on any project equipment configuration.

- Protection Type Ex de IIB T4
- Anti-condensation heater
- Control panel can be stainless steel both Ex'd' and Ex 'e' section
- As a standard we supply marine grade cast box for Ex 'd' and SS Ex 'e' section
- Temperature range as per project requirement -50°C to 55°C
- Inclination switch linked with flashing light / horn for warning to stop using crane ASAP
- Flashing light and horn for all motion
- Metal Nickel plated brass cable glands
- Wiring to meet the project requirement
- Low smoke halogen free cables
- SS cable tray

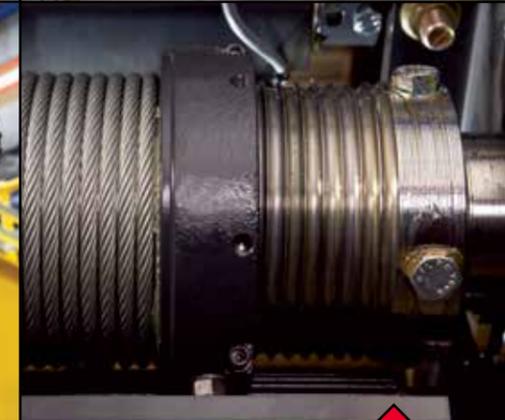
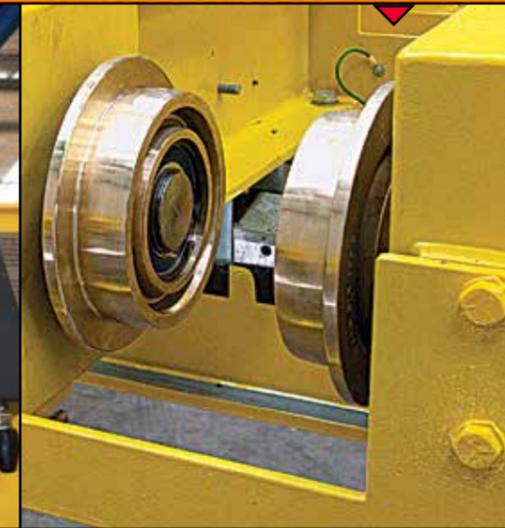
Electrics & Motor can be designed to meet any project requirement

## Motors

- Ex de IIB T4
- Anti-condensation heater
- Manual release lever
- Fail safe brakes
- Ambient temperature -50°C to 55°C

Flameproof Enclosures to increase safety

Non-sparking Solid Bronze Wheels



Flame-proof Limit Switches increase safety

Non-sparking Bronze coated Hook Blocks

Wear-resistant Rope Guide is extremely durable and not subject to temperature limitations



Motors made of grey cast iron and IP 66 rated, the type of protection combines flameproof enclosure, increased safety and protection by housing

Control Pendant Flameproof Housing Protection IP 66

Travel Limit Switch for FAST-SLOW-STOP

# Catenary

EC Non sparking 316 SS Square Track Catenary System certified for Ex area

The use of all 316 grade stainless steel components means that the product is not only considered to be spark resistant in explosive atmospheres, but also resistant to chemical attack and corrosion, hence suitable for use in some of the harshest and most corrosive atmospheres - such as underground mines, CHPP's, chemical plants, salt laden ocean, land based LNG and Oil extraction processing sites to name a few.

Additionally, the use of a diamond bar track allows for automatic dispersal of dust and particulate matter which would otherwise damage and foul rollers and bearings. Particularly effective when installed in excessively dusty environments.



# Positive Drives

Rack and Pinion Drives for Offshore Cranes



# Eilbeck Partners - Sheaves Gosan

GOSAN lifting and hoisting components are used in practically every industry involving machinery for lifting, hoisting and transporting materials. GOSAN's products are key components for critical use machinery such as that operating in ports, Oil & Gas, Marine Industry, Mining,

Heavy Industry & Construction. The main manufacturers and final users in these sectors trust GOSAN's products due to their quality, reliability and durability. Flexibility and experience make this company a reliable supplier for this wide range of final applications.

Gosan is assessed and recognised by the most exacting certification agencies:

- DIN 18800
- ISO 3834/2
- ISO 9001:2008
- API CERTIFICATION



# Certification

## DNV Certification for Recently Supplied Cranes



## ISO 9001 and OHS Certificates



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