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Shipyards – P.R. of China

Dalian

Shipyards – Serbia

Belgrade

Sites – The Netherlands

Alblasserdam
Apeldoorn
Delfgauw
Dordrecht
Goes
Hardinxveld-Giessendam
Kinderdijk
Raamsdonksveer

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Sliedrecht

Blandford Forum – United Kingdom Komarno – Slovakia Stocksfield – United Kingdom Rijeka – Croatia Verberie – France

Sites - P.R. of China

Shanghai Guangzhou

Sites – USA

Houston, TX Wayne, NJ

Sites – South Africa

Cape Town

Representative offices

Beijing – P.R. of China New Delhi – India

Regional IHC Organisations

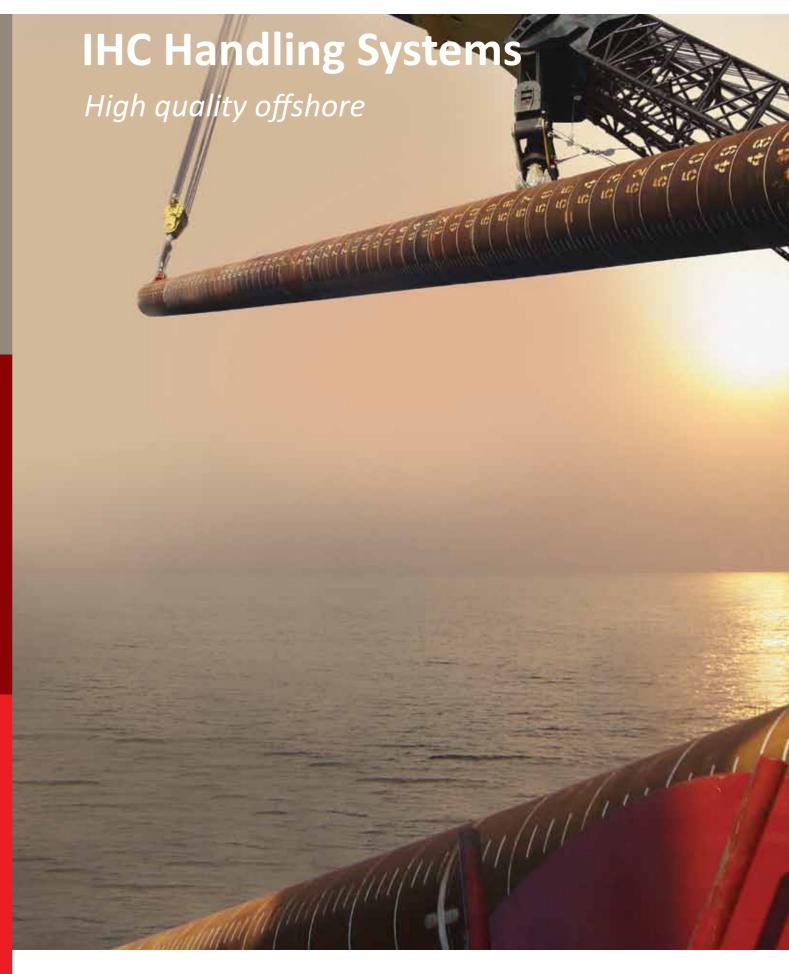
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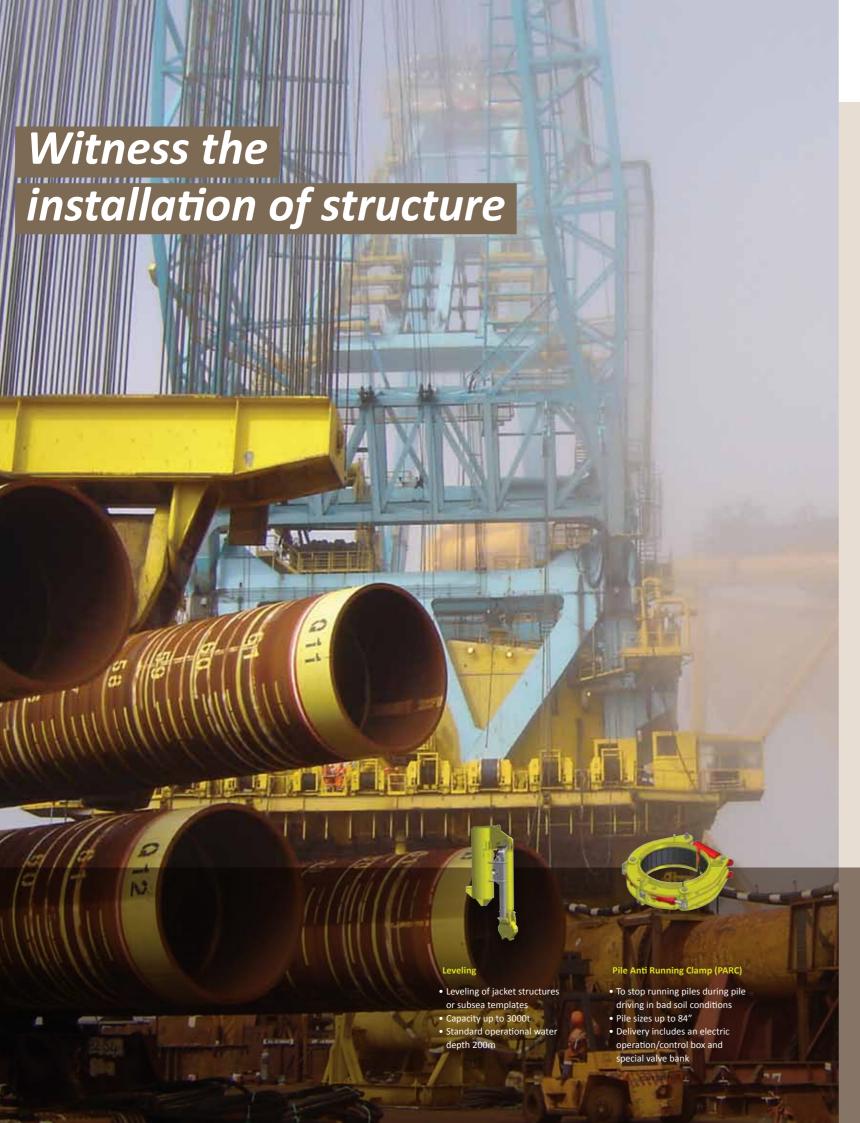




The technology innovator.

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Installation of structures

Since 1955, when our offshore activities began on board the drilling jack-up 'Shelf Driller', our range of services has grown rapidly. At that time IHC Handling Systems operated as a local supplier, now our operational territory covers the entire globe.

On the technical side we have seen the installation of structures move from shallow to deeper, and even ultra deep waters, as far as 3000m. During this evolution the capacities, capabilities and even the design of our equipment changed proportionally. Internal Lifting Tools (ILT), External Lifting Tools (ELT) and Hydraulic Release Shackles, which were the first handling tools in our product program, adapted from working in maximum depths of 200m to being operational at 3000m.

In addition, the demands from the market resulted in design and manufacturing of more handling equipment, including Leveling Tools, Upending Frames, Chain Clamps, Jacket Pile Grippers and Pile Anti Running Clamps.

Equipment shown in this brochure has been designed and fabricated as a response to the installation 'challenges' faced by our customers. Over the years this 'solution driven thinking' has helped IHC Handling Systems to build up their reputation as a innovative 'problem solving' company.

Most of the equipment is also available for hire, allowing customers to benefit from high quality, expertly maintained equipment without costly investments.



- Lifting of piles, conductors, small



- Lifting of structures subsea
- depth 500m, maximum



- piles with short boom cranes
 Pile diameters 54" 108"
 Lifting capacity 600t

Decommissioning

A relatively new market in which IHC Handling Systems is involved is the removal market. The removal of structures, jackets and pipe lines is a rapidly growing market segment as governments and authorities demand that oil companies remove production facilities after shut down.

The first project, in 2005, was the removal of the flare tower of Shell's world famous Brent Spar, and more specialized equipment has been designed since.

Often, standard IHC equipment with special features can be applied in creative ways: Internal Lifting Tools for example, normally used for pile upending, were used for lifting steel segments during the dismantling of jackets offshore.

Other customers require custom-made tools, as demonstrated in our most challenging removal project to date. This involved the removal of a complete jacket structure using buoyancy tanks. IHC's expertise in this project comprised the connection of buoyancy tanks to the jacket structure using external hydraulic grippers in combination with hydraulic pull-in systems. After connection of the buoyancy tanks and pumping out the water the jacket foundation piles were cut and the whole structure was floating again, ready for towage to a scrap yard.



'The removal of structures, jackets and pipe lines is a new market which is growing as well'





Pipe laying

IHC Handling Systems involvement in the pipe laying market originated in the mid 90's with the supply of our first line up clamps. Since then the supply of equipment related to the pipe laying contractors

Since then the supply of equipment related to the pipe laying contractors has increased and encompasses much more than just line up clamps.

Growth of offshore activities resulted in demand for: Pipe Recovery and/ or Abandonment Tools, Bear Cages, Pin Release Systems, Abandonment & Recovery Cable Connectors and, in relation to the pipe laying operations, Suction Pile Lifting Frames. In this market we have also seen, over the years, a move into deep and ultra deep waters. With customers laying pipe in water depth of 3000m, IHC Handling Systems anticipated

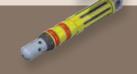
new challenges and responded by designing equipment to withstand these extreme conditions and high loads. Working in water depths up to 3000m with hydraulic equipment is challenging and requires special techniques.

IHC Handling Systems' philosophy in water depths like these is to operate the equipment fully subsea with the use of ROV's. In this case the hydraulic power is generated via the hydraulic power pack of the ROV or via hydraulic energy stored in the equipment itself, controlled by the ROV via a subsea control panel.





- Interface between A&R cable and pipe line complete with hydraulic operated release and pick up book
- Maximum capacity 1000t ir water depths up to 3000m



Pine Abandonment Tool (PA

- To seal off a pipeline in case o abandonment, a double seal
 arrangement shuts off the pipeline.
- Major operational savings compared to welding of time consuming A&R heads



Pine Recovery Tool (PR)

- To recover abandoned pipe line during offshore installation
- Recovery in dry or wet condition in water depths up to 3000m
- Pipe sizes various, from 8" 42"



Handling of pipe lines and/

offshore installation
• Operation via ROV in deep and

ultra deep waters

or PLEM constructions during

Deep water operations

