No limits
No boundaries

Offshore Product Overview

The technology innovator.
No limits, no boundaries. This means that issues such as ‘large’, ‘heavy’ and ‘deep’ are relative terms to us. The crux is identifying opportunities and translating these into practical applications.

As a global expert in the field of tools for installing and decommissioning foundations and structures, we know our market. And our market - in turn - is fully aware of what we have to offer as a technology innovator, as a reliable partner and as a producer of efficient fail-safe tools to ensure the best possible safety.

IHC IQIP, part of Royal IHC, is a globally operating market leader of Dutch origin, which supplies innovative equipment and smart solutions for foundation, installation and decommissioning in the oil & gas, offshore wind and coastal & civil market. Founded in 2015 by combining four well known Royal IHC subsidiaries IHC Hydrohammer, IHC FUNDEX Equipment, IHC Handling Systems and IHC Sea Steel, we draw on more than 200 years of combined experience and expertise and an unbridled passion for service and innovation to meet the demands of a broad customer base, including oil and gas corporations, installation contractors, engineering agencies and government authorities.

Our strengths include our high focus on quality, an impressive track record in various markets, our progressive and continuous search for improvement through innovation, experience with tailor-made solutions and a strong global and local presence. Moreover, IHC IQIP is a sustainability leader in its sector.

We invite you to step into our world in order to learn more about our company, products and services and the reason we are proud to say ‘No limits, no boundaries’.
In an ever-changing market, it is important to keep looking ahead. That is why IHC IQIP is continuously looking for improvements, optimisations and new possibilities. Always with one clear goal: to help clients reduce costs, increase efficiency and ensure safety in order to achieve better results on their projects. This promise is founded on several key principles.

**Integrated approach**
IHC IQIP is the full service partner for all offshore installation, foundation and decommissioning equipment and related services. This means less interfaces, one contract, one partner, one crew and ultimately less risks and lower costs.

**Reliability is key**
Years of experience, a professional production process and extensive testing procedures ensure our equipment and solutions are of the highest standards. Clients can rely on our excellent track record and on-time project completion.

**Leading-edge equipment**
IHC IQIP constantly pushes the boundaries of technology and innovation to make the impossible possible. Our continuous investments in R&D have led to revolutionary products that make offshore installation, foundation and decommissioning more efficient, cost-effective and safer.

**Smart and tailored solutions**
Standard equipment combined with the ability to offer tailor-made solutions through in-house engineering, enables IHC IQIP to help businesses overcome any challenge.

**Act global, think local**
IHC IQIP footholds are spread out across the globe ensuring clients fast access to service, support and materials, wherever they are.

**Largest rental fleet**
Through continuous investments IHC IQIP currently has the largest and most diverse rental fleet available worldwide. All of our equipment presented in this booklet is available for rent, enabling our clients to manage their inventory efficient and flexible. And because of our ‘act global, think local’ policy, the right equipment is almost always available near to your project.
Royal IHC

The technology innovator

In an ever-changing political and economic landscape, Royal IHC enables its customers to execute complex projects from sea level to ocean floor in the most challenging of maritime environments. We are a reliable supplier of innovative and efficient equipment, vessels and services for the offshore, dredging and wet mining markets.

With a history steeped in Dutch shipbuilding since the mid-17th Century, we have in-depth knowledge and expertise of engineering and manufacturing high-performance integrated vessels and equipment, and providing sustainable services. From our head office in The Netherlands and with 3,000 employees working from sites and offices on a global basis, we are able to ensure a local presence and support on every continent.

Dredging operators, oil and gas corporations, offshore contractors, mining houses and government authorities all over the world benefit from IHC’s high-quality solutions and services. With our commitment to technological innovation, in which sustainability and safety are key, we strive to continuously meet the specific needs of each customer in a rapidly evolving world.
IHC IQIP draws on a long history of designing, constructing, delivering and maintaining a broad range of offshore equipment for various applications in the oil and gas sector.

**Structure Installation**

IHC IQIP’s long history in the oil & gas industry has a strong connection with the installation of fixed structures. The challenges, faced by our customers led to the design and fabrication of dedicated equipment which is available on a rental or a purchase basis.

**FPS Mooring**

Floating production systems require reliable mooring because they are applied for oil and gas exploration in deeper water and remote locations far from other infrastructure in often extreme climates. IHC IQIP is world market leader in supplying pile installation equipment and offers complete piling spreads for mooring of floating production systems.

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(Ultra)deep Water
Over the years, the oil & gas industry moved (and still is moving) from shallow to deeper, and even ultra-deep waters. IHC IQIP supports its customers during this ‘evolution’ by designing and producing equipment that has proven its capability and reliability in deep water conditions.

Conductor Installation
IHC IQIP has been involved in driving piles for conductors on- and offshore since the early 1970s, with the invention of our Hydrohammer. Since that time we have installed thousands of conductors while continuously developing new equipment and techniques.

Subsea Field Development
IHC IQIP’s involvement in subsea field development and pipe laying started in the mid 90’s with the supply of our first line-up clamps. Since then, the growth of subsea activities led to a demand for a wide range of equipment, for installation of subsea infrastructure, like templates, manifolds and pipelines.

Decommissioning
A relatively new market which IHC IQIP is involved in is the removal market. The removal of structures, jackets, subsea templates and pipelines requires specialized and customized equipment or, in other cases, equipment that is a ‘spin-off’ from existing tools.

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The offshore wind market is growing. During the coming decades sizeable wind farms will be created, especially offshore. IHC IQIP has been supporting the growth of its customers in this market from the very start with innovative equipment and smart solutions.

**Monopile (XL) Installation**
Because wind farms are continuously located in deeper water and with more powerful turbines, the size of monopiles is increasing substantially. Installing these large diameter piles requires powerful and reliable tools. With our big hammers and handling equipment, we are able to install even the biggest monopiles in the market.

**Jackets & Tripods**
Large monopiles are currently dominating the offshore wind market. But as the shift to deeper water and larger turbines continues, jackets and tripods are becoming chosen more often as foundation type. For the installation of these foundations IHC IQIP can contribute its experiences and proven technology from the oil & gas market.

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Mooring of Floating Wind Turbines
IHC IQIP is world leading in supplying installation equipment for floating production systems in the oil and gas industry. We can use this experience to provide attractive and cost effective piling spread packages and handling tools for mooring of floating wind turbines as well.

Deck Equipment
Choosing the right deck layout is crucial to the efficiency of the operational and service quality of any offshore installation vessel. IHC IQIP is therefore increasingly involved in the handling of structures and piles on deck of installation vessels.

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IHC IQIP has a rich history as an innovative ‘problem-solving’ company and has gained extensive experience through various offshore installation or decommissioning ‘challenges’. Innovation and thinking in terms of solutions for our customers are deeply entrenched in our company, starting from our experienced sales team, through our engineering and our service department. IHC IQIP is capable of limitless conceptualization.

**Recently Developed Concepts**

- Flange Structure Lifting Tool 142
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- Pre-Piling Template 148
- Upending Hinge/Bucket 150

**Services**

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As the offshore industry ventures into more challenging environments, the quality and reliability of equipment becomes even more important. IHC IQIP delivers a wide range of standard equipment that can be used in both the oil & gas market and the offshore wind market and has demonstrated to hold its own in the most demanding environment.

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S-series

Hydrohammer

Hydraulic piling hammer for driving steel piles for conductors, jackets, tripods, mooring systems, monopiles and starter piles for pipe laying.

Specifications
- Hydraulic impact hammer
- For use above and under water
- Installation of foundation piles for conductors, jackets, tripods, FPS mooring, monopiles and starter piles for pipe laying

Available range
- 30 KJ – 4000 KJ
- Available for rent and purchase
- Wide range of sleeves up to 7.5 meters

Features
- Additional acceleration of ram weight through Nitrogen gas spring includes Pile Inclination Measurement Equipment (PIME) for measuring the level of inclination
- Can be used for driving free standing anchor piles through the Fast Frame (or pile guide frame)
- Possible to operate at full power at any inclination

Advantages
- Great track record
- Very low down time rate
- Advanced piling techniques available, such as HiLo (high frequency, low energy) driving in order to minimize fatigue damage
**Hydrohammer®**

**Technical data**

1. Connection plate
2. Piston
3. Accumulator
4. Upper Bearing
5. Valve Ring
6. Hammer Housing
7. Upper Leader Attachment
8. Ram
9. Lower Bearing
10. Lower Leader Attachment
11. Shock Absorber
12. Pile Sleeve
13. Anvil
14. Pile

**Operating Principle**

The operating cycle begins with the lifting phase of the ram (ram weight, ram pin and piston rod are forged in one piece). Here, valve P in the pressure line is opened and valve R in the return line is closed. When the preset stroke position is reached, the valves are automatically reversed allowing the ram to start its downward stroke. The ram is accelerated by the pressure of the gas above the piston and reaches a maximum acceleration of 2g. This reduces the maximum stroke that is required and at the same time increases the blow rate of the hammer. After impact, the cycle is repeated automatically. Due to the independently set acceleration force, the Hydrohammer® can operate at any inclination, even horizontally. The hammer can operate leader guided or free hanging.
Reliability results in very low downtime

- **Solid piece Ram**: Forged in one piece to avoid risk of parts separating.
- **Materials**: Forged alloy steel guarantees durability and allows unlimited piling on steel at full power.
- **Shock absorber**: Robust construction sustainably resist the reaction forces from the pile.
- **Bearings**: Lubricated bearings reduces ram wear to a minimum.
- **Limited parts**: Lowers risk of failures and fewer spare parts.

More possibilities

- **Enclosed hammer housing**: Hammer supplies same energy above and below water.
- **Sleeve design**: Due to flat anvil any pile diameter is possible.
- **Multifunctional**: The Hydrohammer® can operate leader guided and free hanging.
- **Raked pile driving**: Possible to operate at full power at any inclination.
- **Acceleration energy**: Relatively low weight and high peak force ideal to overcome soil resistance.
- **Forged pieces**: Suitable for driving steel on steel because of high-quality forged and alloyed parts.

More efficiency

- **Hammer control**: All hydraulic functions are electronically controlled and monitored, allowing the optimal blow energy to be set.
- **Modular structure**: Parts that could need attention between major services are easily accessible.
- **Oil flow**: Possible to realise a high blow count at a relatively low oil flow.
- **Real time monitoring**: Piling data is directly printed on site or stored in a data logger to allow detailed analysis of the driving operation.

Increased safety

- **Environmentally friendly**: The Hydrohammer® can use biodegradable oil.
- **Noise levels**: Noise reduction packages available.
- **Safety provisions**: Signals from the hammer sensors are centrally processed. If the length of the ram stroke is too long or too short, the hammer stops. If the hammer/pile positioning is incorrect, the hammer cannot be started.

The Hydrohammer’s unique design makes it suitable for all types of offshore piling and foundation work, ranging from starter piles for pipe laying, to the biggest monopiles in the world.
## Hydrohammer® spread Possibilities

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SW-series

Waterhammer

Environmentally friendly hydraulic piling hammer running on water only. Can be used for all piling jobs, like driving pipeline initiation piles, piles for jackets, conductors and mooring systems. Especially designed for (ultra)deepwater.

Specifications

- Hydraulic impact hammer using water (fresh or salt) as medium instead of hydraulic oil
- Operable in ultra deep water

Available range

- 90 KJ
- 500 KJ
- Available for rent and purchase
- Wide range of pile sleeves from 30” up to 96”

Advantages

- Reliable technology
- No high voltage cable
- Simple control/ wireless
- Water as power transmission medium
  - no hydraulic oil spill
  - single hose (no return hose)
**Chain Clamp**

Chain clamps are used for the positioning of mooring chains.

**Specifications**
- Project related lifting capacities
- Unlimited operating depth
- Certified and designed according to Lloyds Lifting Appliances
- Available for purchase

**Features**
- Positioning of deep water mooring chain
- Various chain link sizes possible
- Fail safe design
- Hydraulic release by ROV

**Advantages**
- Efficient positioning of anchor chains
- Mechanical locked / fail safe possible
- ROV operated
Widely Used Offshore Tools

Fast Frame

**Fast Frame**

Used to support, level and orientate free standing impact driven piles.

**Applications**
- FPSO, FSO and FLNG anchor arrays
- Single Point Moorings for Offshore Loading Systems
- Riser and mid-water arch anchors
- Pipeline initiations and Conductor pre-installation
- Accurate pre-driven installations for wind farm jackets, test piles and anemometer masts

**Specifications**
- Capacity 20” – 96” Diameter
- Modular & Containerised construction (up to 60” diameter)
- Digital inclinometer for pile sleeve accurate to 0.1 degrees slope
- Fully Automated Pile Release
- Automatic pile orientation
- Levelling up to 5° ± 0.5° accuracy
- Digital inclination telemetry
- Folding mudmat extensions
- Multiple pile diameters per mobilisation
- DNV Certified
- ROV/Diver contingency intervention
- Opening sleeves for pile ancillaries and seamless operation to seabed

**Available Range**
- Levelling capability for pile diameter ranges from 30” to 96” pile diameter
- Non levelling capability from 20” to 96” pile diameter
- Semi-automated option for all frames, negating the requirement for pile plates. Requires ROV intervention
- Custom pile sizes and bespoke adaptations available upon request
- Multiple sized spacer sets for continuous installation
- Mudmats size ranges: from 12m x 12m to 18m x 18m (Fixed) and from 5m x 6m to 12m x 12m (folding)
Widely Used Offshore Tools

Fast Frame

Fast Frame

Features
- Pile orientation system allows up to 170° alignment window and maintains orientation until adequate soil holding is achieved
- Sleeves are triggered open by the pile without the need for ROV intervention
- Proven levelling system caters for up to 5° inclined seabed
- Allows for protruding pile ancillaries to travel through the frame
- Frame can be used without followers
- Pre-calibrated spacer sets can be changed offshore without the need for survey, allowing multiple pile diameters to be driven in a single campaign

Advantages
- Proven levelling system
- Extensive track record

Widely Used Tools

Fast Frame

Oil & Gas

Offshore Wind

Concepts & Services
Widely Used Offshore Tools

Slotted Frame

Used to support, and orientate free standing impact driven piles on the seabed.

Applications
- FPSO, FSO and FLNG anchor arrays
- Single Point Moorings for Offshore Loading Systems
- Riser and mid-water arch anchors
- Pipeline initiations and Conductor pre-installation
- Accurate pre-driven installations for wind farm jackets, test piles and anemometer masts

Specifications
- Capacity 24” – 96”
- Remote controlled
- Static Frame with no hydraulics
- Suitable for piles with low padeyes

Features
- Pile orientation system allows up to 140° alignment window
- Designed to cater for short piles and low padeye positions
- Allows pre-attached padeye and chain to be used with the frame
- Adaptable for multiple pile diameters without recovering back to deck
- Operates in all water depths
- ROV friendly interaction
- Equipment globally available
- Digital inclinometer for seabed slope

Advantages
- Low pile padeye compatible
- Soft soil conditions
- Low lift height
- Light weight
- Basic function and cost effective
- Accurate pile orientation

Available Range
- Pile ranges between 24” - 96” diameter with larger ranges available
- Sleeve Inserts for installing multiple sized piles
- Mudmats sizes from 12m x 12m to 18m x 18m

SF
Slotted Frame
Hydraulic Release Shackle

Hydraulic release shackles are used for lifting and positioning structures both subsea as well as at the surface.

Specifications
- Capacity 17.5t - 2000t
- Remote controlled engagement and disengagement of shackles
- Available for rent and purchase
- Independent of shackle brand
- Ultra deep water versions available

Features
- Hydraulic operated pin
- Standard suitable for 500m water depth
- Several, optional, back-up activation methods available:
  - Hot Stab
  - Secondary back-up cylinders
  - Accumulators
  - Mechanical back-up

New
- New patented mechanical pin lock design

Advantages
- Compact design
- Modular design
- Number of redundancy options
- ROV friendly
- Shackle brand independent
- Possible to modify existing shackles
Internal Lifting Tool

**Specifications**
- Standard pile range 16” - 96”
- Lifting capacities of 200t - 2000t
- Standard operating water depth is 500m
- Special modifications allow for:
  - pile OD 108”
  - capacity up to 2000t
  - Certified and designed according Lloyd’s
- Lifting Appliances
- Available for rent and purchase

**Fail safe principle**
Equipped with innovative fail safe principle:
- Mechanical load applied on the tool in longitudinal direction results in a transversal force on the pile which creates the ‘locking / fail safe’ connection

**Advantages**
- Wide use, great track record in:
  - Pile handling
  - Module & buoyancy lifting
  - Template installation
- Extremely reliable
- Shortens upending/operation time compared to shackles

**Applications**
An evolution in ILT use has taken place over the years from simple pile handling into use during various installations, such as:
- Lifting of buoyancy tanks
- Lifting of jackets
- Lifting of topside modules
- Lifting of subsea manifolds

**Product range**

16” - 30” 200t
20” - 36” 300t
24” - 42” 250t
42” - 60” 500t
60” - 96” 1200t

Used for upending of piles, conductors and lifting and decommissioning of jackets, templates, buoyancy tanks and modules.
ELT

External Lifting Tool

ELT’s are used for pile upending, pile lifting and as a hang off clamp.

Specifications
- Pile range 20” - 112”
- Lifting capacity up to 1200t
- Max. operating depth of 250m
- Certified and designed according Lloyds Lifting Appliances
- Available for purchase

Features
The ELT has some specific innovative features.
- Subsea operation via ROV or umbilical
- ELT can be optional delivered with side opening
- Centralizing system improving position prior to clamping

Applications
- Pile upending in a dual crane operation
- Use as hang-off clamp
- Use a temporary clamping device during welding of leg piles

Fail safe principle
Equipped with innovative fail safe principle:
- Mechanical load applied on the tool in longitudinal direction results in a transversal force on the pile which creates the ‘locking / fail safe’ connection

Advantages
- Wide use, great track record in pile handling
- Shorten upending/operation time
- Extremely reliable

Widely Used Offshore Tools

External Lifting Tool
### Jacket Pile Gripper

Pile grippers are used to create a temporary connection between the pile and jacket.

#### Specifications
- Capacities are limitless
- Pile diameters are limitless
- Hydraulically operated
- 3rd party certification is optional
- Available for purchase

#### Features
- Securing jacket during bad weather conditions and abandonment
- Retaining elevated position after leveling
- Provides high jacket stability during grouting process
- Operated from surface with subsea redundancy control
- Optional completely subsea controlled
- Optional multiple hydraulic circuits

#### Specials
- Inside-out Jacket Pile Gripper;
  - Jacket pile gripper which is part of the pile grips internally in skirt sleeve or bucket arrangement

#### Advantages
- Extensive track record
- Optional combination with rubber diaphragms
- Several redundancy options possible
- Back-up operation via ROV is standard
- Resistant for shock loads during pile driving
Leveling Tools can be used for the leveling of jackets and/or templates.

**Specifications**
- Surface and subsea leveling operations
- Leveling capacity up to 3000t
- Fail safe design
- Certified and designed according Lloyds Lifting Appliances
- Available for rent and purchase

**Features 1600t - 3000t equipment**
- Subsea leveling tool
- Leveling capacity 1600t - 3000t
- Pile range 72” - 102”
- Guide cone requires an integrated rolled vertical ring only to facilitate leveling tool
- Leveling tool operates independent from pile stick up
- Operates in combination with a Jacket Pile Gripper
- Free orientation during installation of tool

**Features 200t - 1600t equipment**
- Above water and subsea use
- Leveling capacity 200t / 800t / 1600t
- Adjustable to all pile diameters
- Stroke 1000mm / 1800mm
- Emergency release via hot-stab (ROV)
- Stick-up height variable
- Recommended to operate in combination with a Jacket Pile Gripper during subsea leveling
- No special preparations to jacket/template structure are required:
  - Connects with pile guide / catcher plate in subsea use
  - Connects with jacket pad eye in surface use
Widely Used Offshore Tools

Leveling Tool

LT Leveling Tool

Fail safe principle
The LT is equipped with IHC’s innovative fail safe principle:
• Mechanical load applied on the tool in longitudinal direction results in a transversal force on the pile which creates the ‘locking / fail safe’ connection

Advantages
• Above water and subsea use
• Rental option available
• Extensive track record
MaXine® PHC

In heavy lift operations with need for heave compensation the MaXine® Passive Heave Compensator secures the lifting operation by reducing peak loads.

Specifications
MaXine® PHC 50
- SWL 50 Ton
- Stroke 3000 mm
- Weight 2.5 Ton
- Yoke to reduce lifting height
- No external power required
- Approved by Lloyds Register of Shipping

Available Range
- SWL range up to 500 ton
- Tandem assembly doubles capacity
- Start/stop functionality as an option
- Quick lift option
- MaXine® PHC outside the range can be developed quickly
- Available stroke range up to 4500mm

Features
- Available for rent worldwide
- For use both above water and underwater
- Reduces costs by enabling you to work longer at high sea states
- No special lifting frames required

Advantages
- No loose of lift height with yokes
- With some modification useable at serious / any water depths
- Can be used as Single, Series, Parallel, Series Parallel
- MaXine’s lift capacity can be boosted
- No external energy is needed for heave compensation
- No wear in wire and crane system, as a result of the high forces
- Gives protection against shock loads
- Increase of operational weather window

MaXine® PHC

Widely Used Offshore Tools

MaXine® PHC

Widely Used Tools

MaXine PHC - MX

Oil & Gas

Offshore Wind

Concepts & Services
Widely Used Offshore Tools

Pile Guide and Positioning Frame

PGPF

Pile Guide and Positioning Frame

The frame can be used for guiding of foundation piles during upending and for positioning of these piles during pile driving.

Specifications

- Increase of crane efficiency, no vertical pile movement after upending
- Significant reduction of offshore installation time
- Accurate positioning of monopile
- Adjusting verticality of monopile after upending
- Available for rent and purchase

Features

- Innovative design
- Handling of pile diameters up to 6000mm
- Hook holding capacity 700t
- Maximum tilting motion of PGPF ± 6°
- Upending angle range 0° - 93°
- Option to use in combination with other IHC deck equipment
- Upending tool required at top of monopile for upending

Advantages

- Accurate pile positioning
- Pile upending directly on pile position
- No time lost due to extra transfer after upending
- Efficiency

The frame can be used for guiding of foundation piles during upending and for positioning of these piles during pile driving.
Lifting Hook

Tool designed to work together with a Pile Lifting Tool to deploy piles offshore in a safe and controlled manner with ROV friendly handling.

Specifications
- Lift capacity up to 20Te
- Support piles up to 50mm W.T.
- Designed and Certified to DNV 2.22

Features
- Controlled horizontal deployment of piles
- Easy removal by ROV
- Proven lifting solution for offshore operations
- No hydraulics required

Advantages
- Lay down of pipelines in a controlled way
- ROV friendly operation
Widely Used Offshore Tools

Pile Lifting Tool

**PLT**

**Pile Lifting Tool**

ROV friendly tool used to deploy piles offshore in a controlled and safe manner with the capability to wet store piles ahead of piling campaigns.

**Specifications**
- Pile ranges from 24” – 96” OD piles
- Lifting Capacity Range up to 200Te for 96” piles
- Designed and CG3 Certified to DNV 2.22

**Features**
- Wet store capable solution
- Extensive track record
- Horizontal installation arm
- Pinned pile connection
- ROV operated
- Vented top cap

**Advantages**
- Basic use for pile and template handling
- Simple mechanical operation
- No water depth limitations
- Easy handling by deck crew
- ROV friendly design
- No hydraulics required
Skidding System

Skidding systems are used for accurate positioning, load out of heavy objects or launch of jacket structures.

Specifications
- Hydraulic push-pull system
- Movement of loads up to 10,000t
- Available for rent and purchase

Features
- Double hydraulic system: gripping and push-pull
- Easy to operate
- Controllable and accurate positioning
- No special skid beam preparations
- Low maintenance costs

Skidding principle
- Pressurize gripper jacks on beam
- Extend skid jacks (= push object)
- Release gripper jacks
- Retract skid jacks

Advantages
- Hydraulic push/pull system
- Hydraulic clamping
- Extensive track record
- Hydraulic or electric hydraulic
Upending Frames enable offshore installation contractors to increase their sphere of activity and efficiency by upending long piles with a relatively short crane boom.

**Specifications**
- Pile range 54" - 108"
- 600t holding capacity
- Requires ILT at the pile top
- Available for rent and purchase

**Features**
- Hydraulically operated
- Rotation of frame 0° - 100°
- Lateral freedom of movement ±10°
- Full pile weight can be taken by frame
- Frame can be equipped with inclino sensor for accurate digital angle information
- New design with hydraulic hinge back

**Advantages**
- Great track record
- Large rental fleet
- High technical level / intelligence

**Developments**
The latest frames are equipped with a hydraulic hinge back option, this additional device allows the Upending Frame to return into its horizontal position without additional tools, such as tugger winches and/or cranes. This latest design further improves the efficiency of offshore operations.
Widely Used Offshore Tools

Suction Pile Lifting Frame

SPLF

Suction Pile Lifting Frame

Suction pile lifting frames are specifically designed for upending and lifting of suction piles for (deep water) moorings used mainly for floating production systems such as FPSO’s.

Specifications
- Pile diameters up to 6700mm
- Operating depth up to 3000m
- Certified and designed according Lloyd’s Lifting Appliances
- Available for purchase

Features
- Upending and positioning of suction piles
- Deepwater applications with accumulator
- ROV operated
- Standard modular design frame adapts to various pile diameters

Advantages
- ROV operated
- Pile upending and positioning
- Extensive track record for deep water
- Several back up activations available as redundancy
Oil & Gas

- MAXRIDE
- HYDROHAMMER
- LEVELING TOOL
- DEEP WATER INTERNAL LIFTING TOOL
- PILE LIFTING CLAMP
- WATERHAMMER
- PILE ANTI RUNNING CLAMP
- INTERNAL LIFTING TOOL
- JACKET PILE GRIPPER
- FAST FRAME
- ILOTTED FRAME
- PIPELINE RECOVERY TOOL

Widely Used Tools

- Oil & Gas
- Offshore Wind
IHC IQIP’s long history in the oil & gas industry has a strong connection with the installation of fixed structures. The challenges, faced by our customers led to the design and fabrication of dedicated equipment which is available on a rental or a purchase basis.

**Structure Installation**

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- Pile Anti Running Clamp 72
- Pile Plug 74

For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.
Bear Cage

Bear cages are used to line up piles and pipe lines prior to welding.

**Specifications**
- Suitable for various diameters
- For use at surface only

**Features**
- Line up of two pile sections
- Can operate on battered piles
- Hydraulic clamping
- Capacity to hold full pile section weight
- Welding platform can be integrated in design

**Advantages**
- Increase of safety during operation
- Hydraulic controllable weld gap
- No use for winches
- Efficiency
- Time saving operation
**Pile Anti Running Clamp**

Specifically designed clamp to stop pile running during pile driving.

**Specifications**
- Pile range 30” - 84”
- To prevent damage to jacket, crane and hammer caused by running piles
- Hydraulically controlled
- Available for purchase

**Features**
- PARC stops piles from running
- PARC operates in combination with a standard power pack and high pressure accumulator set
- Initial low clamping pressure of PARC during pile driving, to create pile / clamp contact
- When pile running occurs energy from the accumulator package is released in order to stop the pile run within milliseconds
- Automated or manual system
- PARC has the ability to overcome transversal welds between pile sections

**Advantages**
- Prevent damage to jacket, crane and/or hammer caused by running piles
- Optional manually or automatic operated
- Transversal pile section welds can remain and are no obstacle
**PiPl**

**Pile Plug**

Pile plugs create an air and water tight seal at one or both ends of a pile.

**Specifications**
- Can be used in combination with all standard foundation pile sizes
- Hydraulically controlled from surface or by ROV
- Available for purchase

**Features**
- Suitable for upending and/or transportation
- Suitable for shallow water depths
- Available for straight and angled pipe ends
- Hydraulically operated

**Latest development**
Special ILT with a fixed pile plug attached.
- Pile plug integrated with ILT which allows for a combined operation of pile upending and sealing.
Floating production systems require reliable mooring because they are applied for oil and gas exploration in deeper water and remote locations far from other infrastructure in often extreme climates. IHC IQIP is world market leader in supplying pile installation equipment and offers complete piling spreads for mooring of floating production systems.

For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.

- Hydrohammer 22
- Waterhammer 30
- Chain Clamp 32
- Fast Frame 34
- Slotted Frame 38
- Internal Lifting Tool 42
- MaXine 52
- Suction Pile Lifting Frame 64
Over the years, the oil & gas industry moved (and still is moving) from shallow to deeper, and even ultradeep waters. IHC IQIP supports its customers during this ‘evolution’ by designing and producing equipment that has proven its capability and reliability in deep water conditions.

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For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.
Deep Water Internal Lifting Tool

Deep Water Internal Lifting Tools are used for lifting and positioning mooring piles, conductors and subsea structures in ultra deep waters.

Specifications
- Standard pile range 16" - 96"
- Lifting capacities of 200t - 1200t
- Maximum operating depth of 2500m
- Certified and designed according to Lloyds Lifting Appliances
- Available for rent and purchase

Features
- ILT control panel is ROV operated
- Built-in accumulator pack

Fail safe principle
The ILT is equipped with IHC’s innovative fail safe principle:
- Mechanical load applied on the tool in longitudinal direction results in a transversal force on the pile which creates the ‘locking / fail safe’ connection.

Advantages
- Wide use, great track record in:
  - Pile handling
  - Module lifting
  - Buoyancy lifting
  - Template installation
- Extremely reliable
- Shortens upending/operation time compared to shackles
**Pin Release Mechanism**

Pin Release Mechanisms are operated in deep water for the installation of templates, structures and suction piles.

**Specifications**
- Custom made design
- Lifting capacities up to 2000t
- Maximum operating depth of 3000m
- Certified and designed according to Lloyds Lifting Appliances
- Available for purchase

**Features**
- Can be integrated in any structure or lifting beam arrangement
- Hydraulic operated pin
- Hydraulic energy through accumulators
- Mechanical back-up
- Many additional (back-up) options available
  - Hot Stab
  - Secondary cylinders
  - Separate hydraulic circuits

**Advantages**
- Extensive track record
- Several redundancy options
- Several applications:
  - Buoyancy tank connection
  - Spreader bars
  - Template installation
  - Integrated in client construction
**SCF**

**Subsea Connection Frame**

Subsea Connection Frames can be used for the connection of mooring chains.

**Specifications**
- Used to reconnect mooring chains
- Used during installation of new mooring chains
- Re-usable frame for several link sizes
- Available for purchase

**Features**
- Integrated system redundancy
- Subsea connection operation
- Operated by ROV from subsea control panel
- Pin locking by ROV
- Designed for re-use

Oil & Gas
(Ultra)deep Water
### Conductor installation

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IHC IQIP has been involved in driving piles for conductors on- and offshore since the early 1970s, with the invention of our Hydrohammer®. Since that time we have installed thousands of conductors while continuously developing new equipment and techniques.

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For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.
IHC IQIP’s involvement in subsea field development and pipe laying started in the mid 90’s with the supply of our first line-up clamps. Since then, the growth of subsea activities led to a demand for a wide range of equipment, for installation of subsea infrastructure, like templates, manifolds and pipelines.

For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.
Bear cages are used in pipe laying to line up pipes prior to welding.

**Specifications**
- For use at surface only
- Suitable for a various range of diameters

**Features**
- Final weld between landfall and sea pipeline
- Hydraulic clamping
- Hydraulic controlled weld gap adjust
- Clamp and line up of two pipe ends

**Advantages**
- Increase of safety during operation
- Hydraulic controllable weld gap
- No use for winches
- Efficiency
- Time saving operation
Pin release mechanisms can be used for installation of pipelines or PLEM constructions.

**Specifications**
- Custom made design
- Lifting capacities up to 2000t
- Maximum operating depth of 3000m
- Certified and designed according Lloyds
- Lifting Appliances
- Available for purchase

**Features**
- Subsea system
- Power supply via integrated accumulator(s)
- Several, optional, back-up activation methods available:
  - Hot Stab
  - Secondary back-up cylinders
  - Mechanical back-up

**Advantages**
- Extensive track record
- Several redundancy options
- Several applications:
  - Buoyancy tank connection
  - Spreader bars
  - Template installation
  - Integrated in client construction
**PAT**

**Pipe Abandonment Tool**

A tool designed to seal off a pipeline in case of abandonment during pipe laying.

**Specifications**
- More efficient abandonment process compared to existing techniques
- Extends pipelay operation time
- Certified and designed according to Lloyds Lifting Appliances
- Available for purchase

**Features**
- Double seal element seals off pipeline
- Long friction pads prevent overstressing of pipe wall
- Integrated hydraulics
- Integrated check valve for subsea dewatering

**Fail safe principle**
The PAT is equipped with IHC’s innovative fail safe principle:
- Mechanical load applied on the tool in longitudinal direction results in a transversal force on the pipe which creates the ‘locking / fail safe’ connection.

**Advantages**
- Time saving in abandonment situations
- ROV operated
- Dual seal sets in order to prevent water entrance
- PAT acts as pull eye for A&R winch
**Pipe Recovery Tool**

*PRT*

A tool specifically designed for the recovery of pipes or pipelines.

**Specifications**
- Capacity up to 1000t
- Pipe range 8” - 42”
- Max water depth 3000m
- Subsea de-watering possible
- Certified and designed according to Lloyds Lifting Appliances
- Available for rent and purchase

**Features**
- Long friction pads prevent overstressing of pipe wall
- Removable lifting arm allows for retrieval via stinger

**Fail safe principle**
The PRT equipped with IHC’s innovative fail safe principle:
- Mechanical load applied on the tool in longitudinal direction results in a transversal force on the pipe which creates the ‘locking / fail safe’ connection

**Advantages**
- Extensive track record
- Dewatering subsea possible either from tool side or land fall
A relatively new market which IHC IQIP is involved in is the removal market. The removal of structures, jackets, subsea templates and pipelines requires specialized and customized equipment or, in other cases, equipment that is a ‘spin-off’ from existing tools.

For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.

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BuC

Buoyancy Clamps

Clamping equipment integrated in buoyancy tanks can be used for the removal of offshore structures in floating condition.

Specifications
- Fully computer controlled operation
- Available for purchase

Components
- Upper clamp
- Lower clamp
- Upper pull in system (750t)
- Lower pull in system (750t)
**Internal Lifting Tool**

The Internal Lifting Tool can be used for lifting structures, structure sections and topside modules during decommissioning operations.

**Specifications**
- High longitudinal capacity Internal Lifting Tool
- ILT's are equipped with accumulators to overcome use of hoses
- ILT's are equipped with IHC's innovative fail safe principle
- Certified and designed according Lloyds Lifting Appliances
- Available for rent and purchase

**Advantages**
- Wide use, great track record in:
  - Pile handling
  - Module lifting
  - Buoyancy lifting
  - Template installation
- Shortens upending/operation time compared to shackles

**Specifications**
- 20" - 36" 300t
- 36" - 54" 1000t
- 54" - 84" 1750t
- 84" - 120" 2500t
Pipe Cutter

Equipment designed to cut jacket and structures.

Specifications

- Hydraulically operated
- Innovative manipulator arm allows for subsea repositioning
- Current designs for pipe size 12” - 36” and 24” - 48”
- Pipe cutting forces 1000t - 1300t
- Designed for maximum water depth of 150m
- Cost and time effective design compared to existing alternatives

Advantages

- Hydraulically operated
- Manipulator arm allows for accurate subsea positioning
- Time saving over existing cutting devices
- Efficient

Equipment designed to cut jacket and structures.
Because wind farms are continuously located in deeper water and with more powerful turbines, the size of monopiles is increasing substantially. Installing these large diameter piles requires powerful and reliable tools. With our big hammers and handling equipment, we are able to install even the biggest monopiles in the market.

For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.

- Hydrohammer 22
- Waterhammer 30
- MaXine 52
- Pile Guide and Positioning Frame 54
- Flange Pile Upending Tool 110
- Monopile Plug 112
- Noise Mitigation System 114
- Upending Tool 120
- Transition Piece Lifting Tool 124
Flange Pile Upending Tool

Flange pile upending tools are used for the upending and lifting of large diameter piles with an integrated flange.

Specifications
- Using the flange geometry as a support during lifting
- Lifting capacities up to 1600t
- Certified and designed according to Lloyds Lifting Appliances
- Available for rent

Features
- Remotely operated using integrated power pack
- All contact areas covered with protective material
- Optional tool monitoring systems
- No special preparations of pile
- Integrated redundancy

Advantages
- Fail safe
- No markings on pile / flange
- Track record
- Remotely wireless operated
- High efficiency
Monopile Plug

Monopile plugs create an air and water tight seal at one or both ends of a pile.

Specifications
- For monopile diameters up to 8000mm
- Patented design
- Certified and designed according to Lloyds Lifting Appliances
- Available for purchase

Features
- Towing directly on plug
- No special preparations to monopiles required
- Can be used in combination with Upending Tool
- Sealing by solid rubber
- Hydraulically operated
- Design includes redundancy

Advantages
- Use in pile upending and transportation
- Use of plug as towing point
- Custom made
Noise Mitigation System

Used to mitigate underwater noise during monopile installation and reduce operational time as a handling tool. Additional installation features such as an inclination tool, rotation tool and shelter for wave and current impact save time in the total installation process.

Specifications
- Noise mitigation system based on two principles
- Adjustable for various water depths
- Adjustable for various diameters
- Available for rent

Advantages
- Unique noise reduction capacity
- Unique tool with integrated multi functionality
- Enlarging weather window
- Safe working conditions
- Proven technology

Available range
The NMS “family” consists of three standard size ranges with different diameter capacities:
- NMS-6000 maximum diameter 6000mm
- NMS-6900 maximum diameter 6900mm variable
- NMS-8000 maximum diameter 8200mm
### NMS Guiding Tool available

A Noise Mitigation System Guiding Tool is available for the positioning and supporting of the NMS for the installation of monopiles.

- **NMS outer diameter:** 11 meter
- **Push capacity in horizontal plane:** 220 t
- **Skidding distance (tool positioning):** 7320 mm
- **Stroke longitudinally:** 3000 mm
- **Stroke transversally:** +/- 3100 mm
- **Overall length:** 23.2 m
- **Overall width:** 13.5 m
- **Available for purchase**
- **Modifications possible on request**

### Noise mitigation during piling

- **Noise mitigation to below 160 dB.**
- **With HiLo and BBC the NMS averages (16 piles) a sound level of 155 dB (151 - 156 dB).**
- **With HiLo but without BBC, the NMS averages (4 piles) a sound level of 160 dB (158 - 162 dB).**
- The NMS mitigates almost all water born noise radiating from a pile. A large portion of the ground born noise is also mitigated. To dampen this noise further, additional measures are required, for instance RUNS (under development) or a BBC.
- **Use of the NMS reduces contractor risks.** After proving that the NMS works, the lower risk of a sound violation can be included into the quotation.

---

**Offshore Wind**

**Monopile (XL) Installation**
Reducing installation time
The Noise Mitigation System is an installation tool that reduces the installation time per pile:

- Centers the pile by means of an adjustable upper guiding.
- Helps getting piles through the splash zone safer and faster by catching the wave movements.
- Equipped with GPS and inclination tool to assure piles are installed in the right location.
- Guiding tool and inclination tool enables movement along the longitudinal and lateral axis to ensure vertical pile installation.
- Rotational tool ensures correct monopile heading in less than one minute. This automated process increases on board safety and deck capacity because no additional equipment is needed and there are no wires running across the deck.

Larger weather window
The NMS can be used with a sea state of up to 2 meters, 0.5 meters higher than a monopile. If wind is not a factor, this could mean potentially 52% more working days.
**Upending Tool**

Upending Tool for upending large diameter piles.

**Specifications**
- Lift diameters up to 6500mm
- Lifting capacities of 290t, 700t, 1000t and 1400t
- Certified and designed according Lloyds Lifting Appliances
- Available for rent

**Features**
- Adjustable to any diameter (within range)
- Hydraulically operated
- UT’s are equipped with IHC’s innovative fail safe principle
- No special preparations of pile
- Compatible with IHC Monopile Plugs (pag. 112)
- Optional tool monitoring systems
**Offshore Wind**

**Monopile (XL) Installation**

**UT Upending Tool**

**Advantages**
- Extensive track record
- Large rental fleet
- High technical level / intelligence

*Upending tool 1000t at work*

*Upending Tool 1000t*

*New design Upending Tool 1400t*
Offshore Wind

**Monopile (XL) Installation**

---

**Transition Piece Lifting Tool (TPLT)**

Tool used to vertically lift transition pieces and jackets.

**Specifications**
- Outside flange diameter range 4,500 mm – 6,000 mm
- Working load limit (WLL) 400 - 800t
- Maximum flange thickness 200 mm
- Air temperature -10°C to +45°C
- Sea temperature 0°C to +35°C

**Advantages**
- No markings on pile / flange
- Extensive track record
- Remotely wireless operated
- High efficiency
- Center of gravity compensation

**Range**
- TPLT 400t
- TPLT 600t
- TPLT 800t

**Features**
- Available for rent
- Quick and safe locking to lifting object
- Fail-safe lifting principle
- Integrated power pack
- Remote and wireless operated
- Proximity switches
- Integrated backups
- Adjustable to any diameter within range
- No steel-to-steel contact

---

Oil & Gas

**Widely Used Tools**
Large monopiles are currently dominating the offshore wind market. But as the shift to deeper water and larger turbines continues, jackets and tripods are becoming chosen more often as foundation type. For the installation of these foundations IHC IQIP can contribute its experiences and proven technology from the oil & gas market.

For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.

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Offshore Wind | Jackets & Tripods

**Transition Piece Lifting Tool**

Tool used to vertically lift transition pieces and jackets.

**Specifications**

- Outside flange diameter range 4,500 mm – 6,000 mm
- Working load limit (WLL) 400 – 1200t
- Maximum flange thickness 200 mm
- Air temperature -10°C to +45°C
- Sea temperature 0°C to +35°C

**Advantages**

- No markings on pile / flange
- Extensive track record
- Remotely wireless operated
- High efficiency
- Center of gravity compensation

**Features**

- Available for rent
- Quick and safe locking to lifting object
- Fail-safe lifting principle
- Integrated power pack
- Remote and wireless operated
- Proximity switches
- Integrated backups
- Adjustable to any diameter within range
- No steel-to-steel contact
Mooring of Floating Wind Turbines

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IHC IQIP is world leading in supplying installation equipment for floating production systems in the oil and gas industry. We can use this experience to provide attractive and cost effective piling spread packages and handling tools for mooring of floating wind turbines as well.

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For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.
Choosing the right deck layout is crucial to the efficiency of the operational and service quality of any offshore installation vessel. IHC IQIP is therefore increasingly involved in the handling of structures and piles on deck of installation vessels.

Pile Guide and Positioning Frame 54
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Stacking Frame 136

For this application we have dedicated tools and tools that are also used for other applications. Please find above an overview of the tools and their associated pages.
The saddle and hook system creates a controlled fixed hinge point during the upending of long foundation piles.

**Specifications**
- Provides an extended working window for offshore cranes
- Significant reduction of offshore installation time
- Available for purchase

**Features**
- Hook takes axial load of pile
- Saddle to guide piles during upending
- Hook retrievable via a winch
- Lifting capacities up to 1000t

**Advantages**
- Simple mechanical hook and turning point (hinge)
- Efficient
- Extension of crane operating window
Stacking Frame

Stacking frames are used for stacking and handling multiple foundation piles on deck of an installation vessel.

**Specifications**
- Storage and handling of foundation piles
- Efficient use of deck space
- Available for purchase

**Features**
- Fully hydraulically operated
- Option to use in combination with upending support such as:
  - saddle & hook
  - pile guide and positioning frame

Stacking frames are used for stacking and handling multiple foundation piles on deck of an installation vessel.
Equipment designed to lift structures equipped with a connection flange.

Features
- Remotely operated using integrated power pack
- Integrated optical warning systems
- Zero forces on flange during lifting
- Integrated redundancy
- Different lifting points for COG adjustment
- Remotely operated
- Integrated hydraulic power pack
- Minimum of bending stresses in pile

Specifications
- Lifting of transition pieces, jackets and tripods
- No special arrangement on flange required
- Increase in efficiency during offshore operations
- Current design for 1000t and pile diameter 6000mm
- Certified and designed according to Lloyd’s Lifting Appliances
- Available for purchase
IHC IQIP has a rich history as an innovative ‘problem-solving’ company and has gained extensive experience through various offshore installation or decommissioning ‘challenges’. Innovation and thinking in terms of solutions for our customers are deeply entrenched in our company, starting from our experienced sales team, through our engineering and our service department. IHC IQIP is capable of limitless conceptualization.
Equipment designed to lift structures equipped with a connection flange.

**Features**
- Remotely operated using integrated power pack
- Integrated optical warning systems
- Zero forces on flange during lifting
- Integrated redundancy
- Different lifting points for COG adjustment
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**Flange Structure Lifting Tool**
**Hammer Gripper**

Optional hydraulic hammer equipment used to lift and position upended piles.

**Specifications**
- Gripper frame designed for lifting piles with a hydraulic hammer
- Reduce the number of equipment changes during an offshore operation
- Time efficient installation
- Lifting tool for hydraulic hammer
- Vertical pile lift and handling only

**Gripping**
The upending frame takes the full longitudinal force by gripping the pile prior to lifting.

**Lifting**
The pile can be lifted into position by a special gripping frame connected to a hydraulic hammer or an internal Lifting Tool.
**SFC**

**Sea Fastening Clamp**

Modular clamp for sea fastening flanged structures.

**Specifications**
- Clamping force 715t
- Hydraulically operated
- Mechanically locked
- Fail safe

**Features**
- Load monitoring
Pre-Piling Template

Standalone pre-piling template used for the installation of tripods and jackets.

Specifications
- Assures accurate footprints for 3-4 leg jacket types
- Accommodates pile diameters from 1800mm up to 3000mm
- Available for rent and purchase

Features
- The template is operable with fixed or floating installation vessels.
- Reduced risk to assets and personnel due to the piles being supported independently of vessel.
- Increased safety and productivity in the field. Vessel not bound to template can detach as required during installation (reloading, crew changes, weather or emergency).
- Template takes care of verticality and alignment across all the installed piles.
- Use of standard ILT for subsea connection and lifting method.
- Built in levelling system to assure verticality of all legs.
- Built in survey system for pile height verification.
- Designed to work in deeper water depths.

Noise Mitigation
The Pre-Piling Template is designed to support IHC’s Noise Mitigation System
- NMS integrated into the pre-piling template to achieve 160dB sound levels.

Easy Piling Method
- Through sleeve pile driving without obstacles
- Low COG and one hoist option hammer & pile
- Secures compressed first layer, no grout mixing with soil
- No follower involved
- No dredging when driving below see bottom
**Upending Hinge/Bucket**

Equipment designed to support the lower end of a monopile during upending.

**Specifications**
- Capacity 1400t
- Suitable for unique pile diameter
- SPMT mounted or skidbeam based
- Requires upending tool at the top

**Features**
- Upend angle 0-93°
- Lateral freedom of movement +/- 5°
- Full pile weight can be taken by bucket
- Electronic upend and tilt angle measurement possible
Advisory Service

Based upon design and installation experience in onshore and offshore operation for the last 30 years, we can offer different advisory services.

**Specifications**
- Site investigation for drive ability
- Design of foundation element for installation
- Piling procedure
- Surveying and reporting
- Foundation installation method

**FEA Analyses**
For a correct foundation element design optimized for installation as well as operational loads advisory can be provide and usually is based upon dynamic FEA analyses. The exact behavior of the Hydrohammer® and Anvil used with the dimensions of the foundation element can be modeled and behavior can be simulated in FEA package for design optimisation.

**Hydrodynamics**
As part of the foundation installation method IHC IQIP performs full hydrodynamic services. IHC IQIP uses the ANSYS® AQWA™ Program Suite, which has a full function diffraction-based hydrodynamic modeling package. The results can be used as the basis for sea fastening design, over boarding method, mooring analysis, in vessel design, or as input into another scope of work.

**Surveying and reporting**
Position measurement and dynamic pile monitoring can be performed and will provide reports of the actual situation for each installed foundation.

**Driveability**
A proper choice for a hammer can only be made after careful interpretation and assessment of the properties of the soil. To support its users IHC IQIP has a staff of experienced engineers to assist them with pre- and post-pile driving analyses. These driveability studies are carried out using the most sophisticated computer programs (GEOWAVE). These programs are also used to enable IHC design engineers to optimize hammer components.
SE

Service Engineers

A global network of dedicated and experienced service engineers is available to operate, repair and maintain all of our equipment offshore.

Quick response
IHC IQIP is renowned for high-quality equipment – and a quick response to technical queries. Any delay has an enormous impact on a contracting company. This is one of the reasons that the IHC IQIP organization has been set up to be as flexible as possible. Thanks to short internal lines of communication it is possible to react quickly and adequately to requests for service anywhere in the world.

Experienced & motivated team
IHC IQIP offers its range of services through an experienced and motivated team of service engineers which can be deployed worldwide. Our engineers are fully trained to both operate our own equipment and carry out the necessary maintenance and repair work. Our service engineers can be hired alongside our equipment, as well as separately.

Of course IHC IQIP service engineers hold a valid medical certificate of fitness and are OPITO-certified.

Training opportunities
Technological innovations and the continuous focus on improving performance demand that people are trained in a way that fits the necessary competences to perform a specific job. In order to fully utilize the technical capability of its equipment and avoid unnecessary damage, IHC IQIP offers comprehensive training programs specifically tailored to the customers’ requirements. These trainings can take place at our own facilities, in the company’s factory and/or on the first job site where our equipment is being used. Naturally, (additional) training can also be provided once work with our equipment has started.
High-quality offshore

We invite you to step into our world of high-quality offshore equipment in order to learn more about our company and the reason we are proud to say ‘No limits, no boundaries’.

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