

# COMBI LIFTING SPREAD



## LET'S BUILD

In the harsh conditions of the offshore wind market, crane operations can often be labour-intensive and come with risks. IHC IQIP has developed the Combi Lifting Spread to overcome these challenges on safety and allows you to execute projects without the need of hands on deck. Furthermore, the tool reduces operational time and costs, which will maximise the efficiency of projects offshore.



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# COMBI LIFTING SPREAD

The Combi Lifting Spread exists of multiple installation tools, that can be used for foundation installations. The Hydrohammer, Transition Piece Lifting Tool (TPLT), Flange Pile Upending Tool (FPUT) and Integrated Monopile Installer all have interface sockets that connect easily with the Lifting Connector to serve as a replacement system from the conventional shackle and rigging connections.

## LIFTING CONNECTOR

The Lifting Connector is the main piece of the Combi Lifting Spread and is the connection between the crane and tools. This system can serve as a replacement system from a typical crane hook. One of the key design principles on the Lifting Connector is the ring of latches around its center. These can slot seamlessly into the corresponding sockets. The latches connect underneath the flange of each socket on the corresponding equipment, which creates a fail-safe lift and allows each tool to be introduced quickly as required.

The Lifting Connector can be fitted with several additional features, such as a global positioning system (GPS) and a video image processing unit (ViP). Once connected to other equipment, the benefits of these features are transferred. This allows crane operators to achieve the highest level of accuracy.

## INCREASING SAFETY AND EFFICIENCY

The Combi Lifting Spread is remotely controlled which eliminates direct human contact and improves the safety on board for the riggers. In addition, the Combi Lifting Spread reduces crane movements, vertical transits, interfaces, risks, operational and spare equipment, deck space and wear and tear on sheaves and wires which increases the efficiency.

## A MULTIFUNCTIONAL LIFTING SPREAD

The Combi Lifting Spread is especially developed for offshore wind projects, but can also be used in the Oil & Gas and Coastal & Civil market. At the moment, the Combi Lifting Spread exists of the Lifting Connector and the Hydrohammer, TPLT, FPUT and Integrated Monopile Installer. This spread can be expanded and can be applied for all lifts that are needed at your next project.

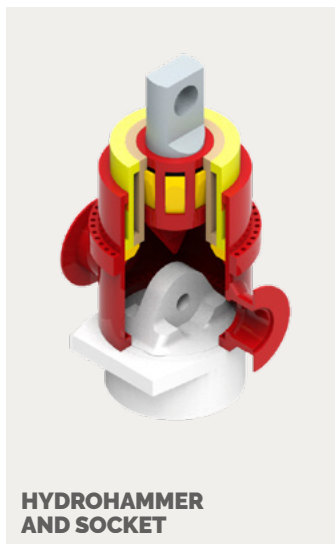


## SPECIFICATIONS

- The Combi Lifting Spread includes: the Lifting Connector along with the corresponding lifting sockets that presently connect to our Hydrohammers, Flange Pile Upending Tools (FPUT), Transition Piece Lifting Tools (TPLT) and Integrated Monopile Installer including the Noise Mitigation System (NMS)
- Lifting Connector equipped with fail-safe principle
- Vertical Lift and handling only
- Available for rent

## ADVANTAGES

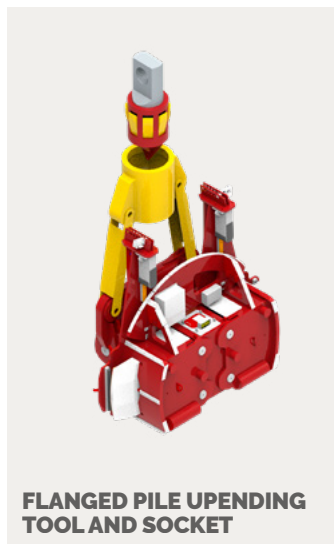
- Time efficient installation
- Increases safety by reducing human interference
- Reduced crane movements and the number of interfaces
- Less deck space needed
- Less wear of cables and sheaves



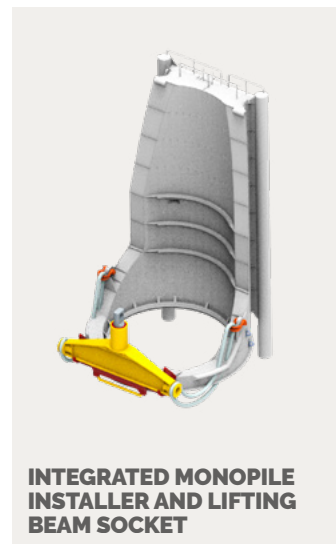
HYDROHAMMER AND SOCKET



TRANSITION PIECE LIFTING TOOL AND SOCKET



FLANGED PILE UPENDING TOOL AND SOCKET



INTEGRATED MONOPILE INSTALLER AND LIFTING BEAM SOCKET