



# Combi Lifting Spread

Improve lifting efficiency and project safety



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IQIP's Combi Lifting Spread (CLS) is comprised of multiple installation tools that can be used on foundation installation projects. The Hydrohammer®, Transition Piece Lifting Tool (TPLT), Flange Pile Upending Tool (FPUT) and Noise Mitigation System all have interface sockets that connect easily with the CLS Lifting Connector, to eliminate conventional shackle and rigging connection methods.

Using the CLS ensures that fewer people are involved in what can be labour-intensive and high-risk offshore crane operations. In addition to providing a safer offshore working environment, the use of IQIP's Combi Lifting Spread also allows monopiles and transition pieces to be placed with fewer crane movements and vertical transits, saving time and reducing wear and tear on cables and sheaves.

### Combi Lifting Tool

The Combi Lifting Tool is the main piece of the Combi Lifting Spread and is the connection between the crane and tools, replacing a traditional crane hook. One of the key design features on the Combi Lifting Tool is the ring of latches around its center, which 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 and efficiently. The Combi Lifting Tool 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, allowing crane operators to achieve the highest level of accuracy.

### Increasing safety and efficiency

The Combi Lifting Spread is remote controlled which eliminates direct human contact and improves the safety on board for riggers. By enabling automatic couplings and lifts via one connector and corresponding sockets on the tools, the CLS reduces the number of riggers required on deck and mitigates the risks that are involved with manual connections of crane hook, slings, and installation equipment. The CLS 3000t has delivered a 20% reduction to installation time on



previous projects. The more the CLS is used for lifting, the more installation time is saved.

### A multifunctional lifting spread

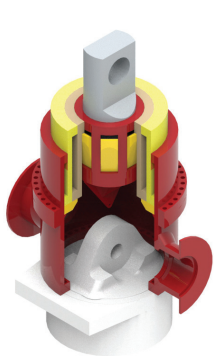
The Combi Lifting Spread is especially developed for offshore wind projects, but can also be used in the Oil & Gas and Coastal & Civil markets. At the moment, the Combi Lifting Spread exists of the Combi Lifting Tool and the Hydrohammer, TPLT, FPUT and Integrated Monopile Installer. This spread can be expanded, customised and tailored to meet the needs of each project.

#### Specifications

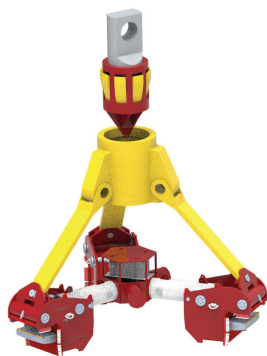
- The Combi Lifting Tool has a lifting capacity **up to 5000t**
- Lifting Connector equipped with fail-safe principle
- Vertical Lift and handling only
- Available for rent

#### 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



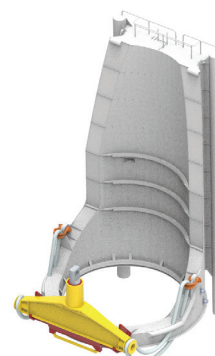
Hydrohammer and socket



Transition piece lifting tool and socket



Flanged pile upending tool and socket



Integrated monopile installer and lifting beam socket