



FLANGE CLAMP TOOL

The Flange Clamp Tool (FCT) is designed by IQIP to create a temporary connection between two flange structures. The tool is remotely operated by radio control and has a fail safe system engagement. The FCT is multifunctional and is beneficial to safety during on- and offshore operations:

It has successfully been used in offshore wind projects as a smart solution to temporarily secure wind turbines without the necessary presence of personnel within the wind turbine.

FLANGE CLAMP TOOL

Flange Clamp Tools are used to temporarily secure the axial connection between the flanges of tower and substructure of a wind turbine generator prior and during the installation of permanent bolting. After installation of the majority (or all) of the installation bolts, all FCTs are removed.

A FCT system consists of a predetermined number of preinstalled Flange Clamp Tools, preferably equally divided over the circumference of the WTG tower flange. Each system is connected to a Termination Panel and operated / controlled by means of a remote HPU which is connected to a Termination Panel by means of an Umbilical.

FUNCTIONALITIES

Each FCT consists of two separate double acting cylinders which have the following functionalities:

1. To extend and retract the internal clamp section (into / from hole on substructure flange);
2. To clamp and release the internal clamp;
3. To pull and release the entire Flange Clamp Tool.

Actions 1 and 3 are performed by the Main Cylinder. Action 2 is performed by the Internal Clamp Cylinder.

SPECIFICATIONS

Capacities up to 60t

- Remotely operated
- Failsafe principle
- Complete system includes: Termination Panels, HPU, Control Unit and Umbilical Reel
- Available for purchase and rental

MORE INFORMATION?

Interested in our Flange Clamp Tool and curious about its possibilities?

Please contact us at info@iqip.com for extra information. Visit iqip.com to find out about IQIP's other innovative offshore tools.

