

PowerFrame® II Modular-Rail Tong-Positioning System

Houses and positions all Weatherford mechanized power tongs using remote operation

Applications

- Positioning Weatherford mechanized power tongs for drillpipe, casing, tubing, and production-riser running
- New-build rigs and rig-refurbishment applications

Features and Benefits

- Remote operation requires fewer rig-floor personnel, which enhances operational safety and reduces costs.
- The efficient tool design enables quick tong change-outs.
- The PowerFrame II system combines with the TorkWrench® 10-145 iron roughneck for efficient drillpipe makeup.
- Compatibility with all Weatherford mechanized power tongs reduces capital investment.
- Multiple safety cutoffs and interlocks help to safeguard against accidents and injuries.
- The memory feature enables accurate and efficient tong placement.
- The system is customizable to fit existing iron-roughneck tracks and, in turn, eliminate costly rig modifications. Standard track width for the PowerFrame system is 75 in. (190.5 cm).
- Compatibility with rig safety systems, including the Varco V-ICIS system, enables advanced rig integration.
- Separate wheel housings enable easier maintenance and wheel set exchanges.

Tool Description

The patented* Weatherford PowerFrame II modular-rail tong-positioning system houses and positions any Weatherford mechanized power tongs, including casing, tubing, drillpipe, and production-riser tongs.

The PowerFrame II system can be remotely operated, which enhances operational safety. The system also employs programmable logic control (PLC) technology that simplifies operations and enhances efficiency. The track-mounted PowerFrame II system has a small footprint, which makes it well suited for new-build rigs and refurbishment applications.



The remotely controlled PowerFrame II modular-rail tong-positioning system enhances operational safety by minimizing rig-floor personnel requirements.

* U.S. Patent No. 77114235