TorkWrench® 10-160 Mobile Bucking Unit

Generates high torques for the makeup and breakout of drillpipe with diameters ranging from 2-7/8 to 10 in.

Applications

- Makeup and breakout of joints of drillpipe stands and bottomhole assemblies that have diameters ranging from 2-7/8 to 10 in.
- High-torque makeup and breakout operations up to 160,000 ft-lb (216,931 N·m)

Features and Benefits

- High-torque wrenching and spinning units combine for faster makeup and breakout operations.
- The three-jaw gripping system enables equal load distribution, which eliminates shear forces on tool joints and reduces backup clamping pressure while spinning.
- The top-loading capability simplifies equipment handling and conserves valuable space. An additional pipe-feeding transport is not required.
- The electronic control system enables remote operation and reduces the number of required rig personnel for enhanced safety.
- The free-floating spinning system follows the movement of pipe, which protects the tool joint and minimizes drillpipe damage caused by conventional systems.
- Its compact design enables using the bucking unit on the pipe deck for fast, easy rig up and rig down.
- Optional explosion protection according to ATEX regulations supports safe makeup and breakout operations in potentially explosive Zone 2 atmospheres.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Clamping range</td>
<td>2-7/8 to 10 in.</td>
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<td>Maximum wrenching torque: 8- to 10-in. pipe</td>
<td>160,000 ft-lb (216,931 N·m)</td>
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<td>Stepless clamping range</td>
<td>3-1/2 in.</td>
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<tr>
<td>Wrenching angle in make and break direction</td>
<td>40°</td>
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Mounted on a transportation platform, the TorkWrench 10-160 MBU saves time by providing high-torque offline makeup in the workshop or on the rig.

Tool Description

The Weatherford TorkWrench 10-160 MBU is designed exclusively for making up and breaking out joints of drillpipe that have tool joint diameters ranging from 2-7/8 to 10 in. The TorkWrench 10-160 MBU is capable of generating torque up to 160,000 ft-lb (216,931 N·m) in makeup and breakout modes.

The complete system consists of a wrenching tong system, a drillpipe spinner unit, a hydraulic power unit, and an electric control cabinet with a complete remote control. All system components are mounted on a transportation platform.