

Casing Tong Handling Tool

Improve safety and efficiency of casing handling operations

Applications

For offshore rigs on any SmartRacker* vertical pipe-handling system as well as other column rackers

How it improves wells

Casing tong handling tools (CTHTs) improve safety and efficiency by reducing the time to complete casing running operations. CTHT automatically moves the casing tongs to and from well center, which decreases the personnel required to make up casing on the rig floor. Additionally, the CTHT increases the speed of running the casing tong to and from well center. Operations are faster and more consistent, from shift to shift, crew to crew.

How it works

The CTHT is an upgrade to an existing offshore drilling rig. The CTHT lifts and handles casing tongs, ranging in size from 7 $\frac{3}{8}$ in to 30 in, to and from the well center during casing running operations. The CTHT can be used on any Cameron SmartRacker vertical pipe-handling system or any other brand of column racker.

The CTHT is connected with the gripper-head lifting bracket of a Cameron SmartRacker vertical pipe-handling system (or other brand of column racker) and supported by a guide arm when operating the casing tongs. The position of the casing tongs is controlled in a programmed path to and from the well center and a parked position. When not in use, the CTHT can be parked in the vertical pipe-handling system pickup elevator slot. The CTHT will be controlled by the SmartRacker system or column racker, either from the driller's chair or an optional remote control. Position is verified by sensors on the column racker. The casing supplier will stand outside the drill floor while controlling the makeup and breakup sequence and the torque.

What it replaces

Casing handling by rig personnel

Key features

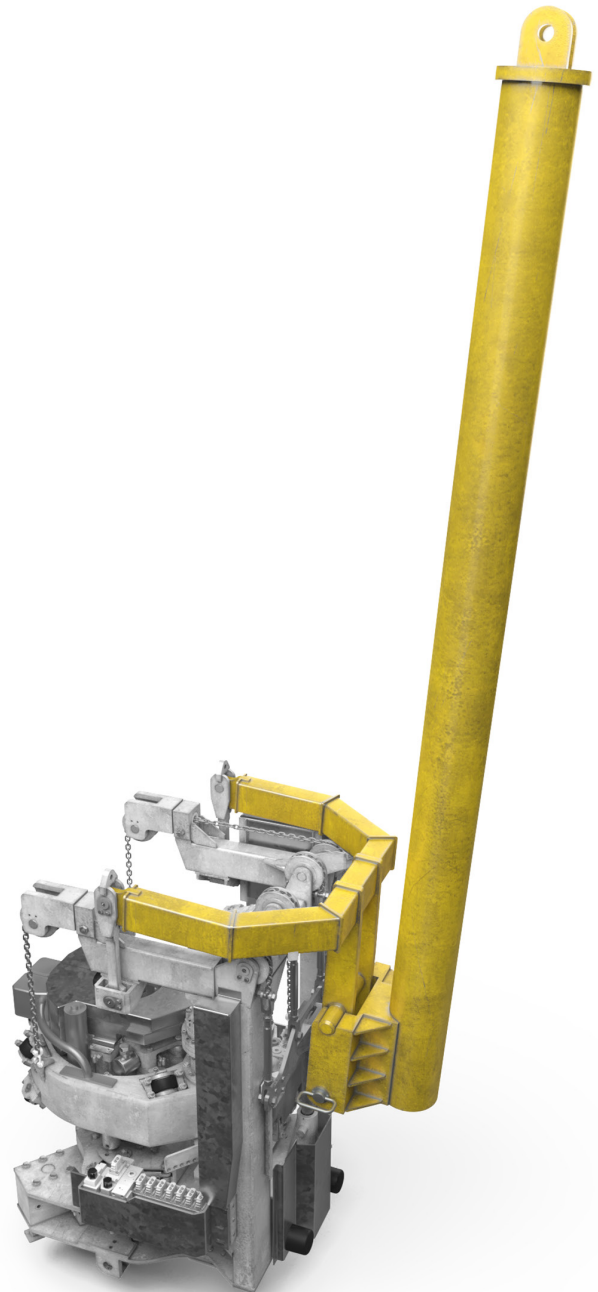
- Safer and controlled guidance of the casing tong
- Easy installation
- Control from driller's chair or a remote control
- Suitability for small drill floor (because no new machine is used for running casing)

Key benefits

- Removes 1–2 people from the drill floor during casing makeup operations
- Increases speed of casing tong movements
- Improves consistency of casing running operations (e.g., between day and night shift)
- Eliminates casing stabbing arm

The takeaways

Makes operations safer with fewer personnel on the drill floor and increases efficiency by decreasing the amount of time required to complete casing running operations.



The casing tong handling tool connects with the gripper-head lifting bracket of a Cameron SmartRacker vertical pipe-handling or third-party system.