

Well Construction

Frank's Tubular Running Services (TRS) - Drilling Services

750-ton J-Slot Tool

The first of its kind, Expro's J-Slot Tool is designed to be a strong, yet easily made and broken connection. During casing hang-off and pick-up operations below the rig floor, it is not feasible to make or break a connection using torquing equipment.

The J-Slot Tool, however, can be made-up and broken-out in this location, utilizing rotational motion from the top drive. Plus, unlike comparable casing hang-off/pick-up techniques, like the "soft break" method, the J-Slot procedure does not compromise the tensile strength of the connector, nor does it risk parting the connection.

Deepwater rigs equipped with both main and auxiliary rotaries can drill and run casing simultaneously. When the casing has all been run via the auxiliary or aft rotary table, the string is hung-off by the J-Slot Tool on the riser cart in the moonpool, where it remains until drilling is complete.

At that point, the Male J-Slot Tool is unlatched and tripped-out, leaving the Female J-Slot and casing string on the riser cart. The casing string is positioned beneath the main rotary by the riser cart, and the J-Slot is latched-up again in order to hoist the casing string up to the rig floor.

Normal operations can then continue. By facilitating this dual running procedure, the J-Slot saves much rig time.

On single-activity rigs equipped with a riser cart in the moonpool, the casing string can be run hung-off off-line prior to spud. Then, when the casing string is needed, it can be brought up to the drill floor.



Features and benefits

- Allows safe operation during hang-off of 22 in or 28 in casing
- J-Slot connection allows make-up/break-out without use of torquing equipment
- Bell guide and self-centering features enable hands-free stabbing
- Alignment stripes provide visual confirmation of properly made-up connection
- Clockwise latch ensures that drill pipe connection does not back-out due to impact forces incurred during J-Slot make-up
- Extension subs provide ample space for make-up

Applications

- Deepwater
- Mid-water shelf



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Specifications	
Capacity	750 tons (680 tonnes)
Maximum OD (male)	17 1/2 in (444 1/2 mm)
Maximum OD (female)	36 in (914 mm)
Made-up height	17 1/2 ft (5,334 mm)
Length (male)	10 1/4 ft (3,124 mm)
Length (female)	10 1/2 ft (3,200 mm)
Connection (male)	API 6 5/8 in (2,019 mm) FH Box
Connection (female)	API 6 5/8 in (2,019 mm) FH Pin