

Coiled Tubing Smart-J Tension Packer

Tension-set packer for coiled tubing operations

Applications

- Tension packer for coiled tubing
- Waterflooding operations
- Pressure testing
- Can be used as a completion packer

Features & Benefits

- Packer can be set without rotating tubing.
- Short And Compact - Increases the efficiency of handling, shipping, and storing of the tool
- Rocker-Type Slip Design - Eliminates the need for extra drag blocks, slip tie links, and guide grooves, allowing for shorter overall length but ones permanently free from stuck or cocked slips.
- Easy To Operate - A simple and reliable J-Slot mechanism, actuated from the surface by tubing rotation, makes the packer easy to set and release.
- Packing Element System - For temperatures up to 250° F, the standard 80 D (durometer) element can be used with sizes 41 through 51, and for applications above 250° F, a 90 D element is available. The Size 53 and 55 tools use a 70 D element, rated to 225° F. Standard and alternate elements are also available for higher temperatures.
- Full-Bore - Larger than tubing drift diameter. Any instruments capable of passing thru the tubing can be run thru the packer. Full ID also assists in preventing screen-out and subsequent plugging of the tubing during fracturing.
- Redress Kits available, extending tool life

Description

The **Evolution Coiled Tubing Smart-J Tension Packer (CT-Smart-J Packer)** provides a compact, economical retrievable packer for use where a set-down type packer for coiled tubing operations. This packer can be set without rotating the tubing.

Although designed primarily for waterflooding, this packer can also be used for such pressuring operations as formation fracturing in shallow or low-fluid-level wells.

With the Smart-J mechanism built into the mandrel of the **CT-Smart-J Packer**, you do not have to remove the tool from the hole to reset. Simply lift the run down the length of the J-mechanism (6 inches). The packer will only operate in tension.





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Operation

To Set Packer

Run the packer to desired setting depth, making the last movement down before attempting actual set.

The packer operates with a continuous 'J' mechanism. Each time the packer is moved down, and then up in the well, the 'J' system automatically moves from the running position to the set position or vice versa.

For instance, when running the packer in the well, if the tubing is stopped and then moved upwards, the packer will be in the set position and the slips will engage the casing walls. The application of additional tension will then cause the packer elements to seal against the casing.

To Release Packer

Repeating the downward motion will relax the slips and disengage the packer from the casing.

Emergency Release

For use under extreme conditions, two safety release methods are available.

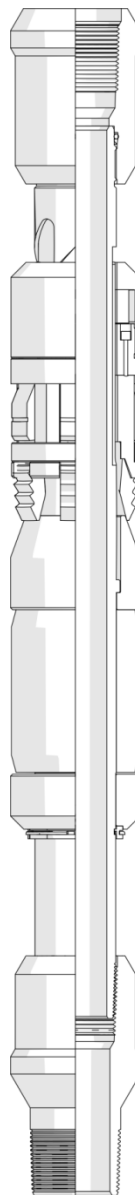
1. The CT-Smart-J Packer has an emergency Shear Ring installed on the Body, below the Guide. Application of from 25,000 to 50,000 lbs. tension (dependent on strength of Shear Ring) will shear the Shear Ring, permitting the Cone, Packing Element and Guide to drop against the Bottom Sub where they will remain as the Packer is retrieved from the well.
2. If it is not desirable or practical to pull 50,000 lbs. through the tubing, apply approximately 10,000 lbs. strain and rotate the tubing 20 or more turns to the right. This unscrews the left-hand safety thread between the Top Sub and the Body and allows removal of the tubing string and the Top Sub. To remove the remaining portion of the Packer, install a set of Jars made up above an overshot, socket or spear (or the Top Sub), engage the Packer Body and actuate the Jars to free the Packer Body from the casing.

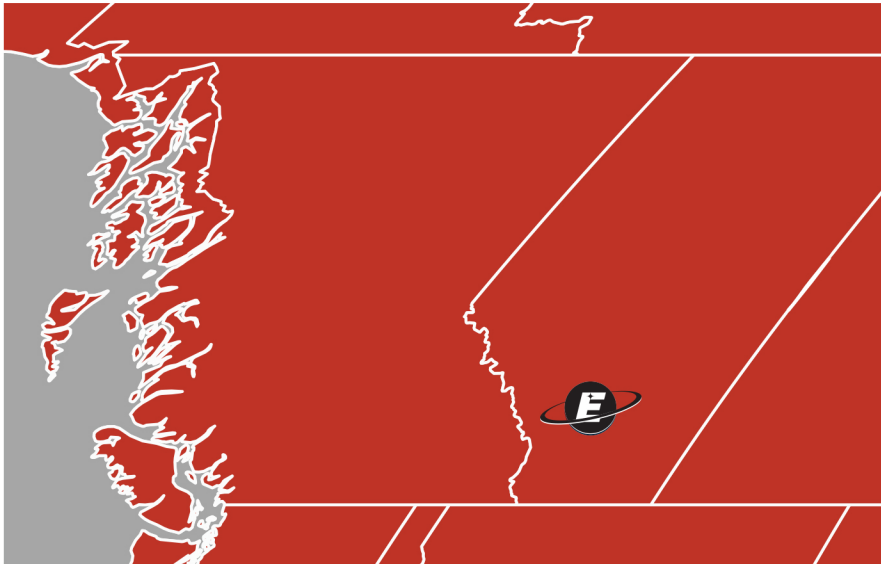
Redress Kits (including such items as packing elements, seal rings, etc.) are available.

Specifications

Casing		Packer		Preferred Range of Casing ID's		Guide Ring OD	Packer Element OD	Minimum Collapsed Diameter of Slips	Maximum Casing ID Slip Travel	Thread Spec. Box x Pin	Item Number
OD	Weight Lbs/ft	Size	Bore	MIN	MAX						
4 ½	9.5-13.5	43A	1.895	3.910	4.160	3.771	3.719	3.787	4.170	2 3/8 EUE	104979
5 ½	20-23	45A2	1.978	4.625	4.778	4.500	4.375	4.543	4.966		105138
7	26-29	47B2	2.416	6.136	6.276	5.968	5.781	5.919	6.528	2 7/8 EUE	105139

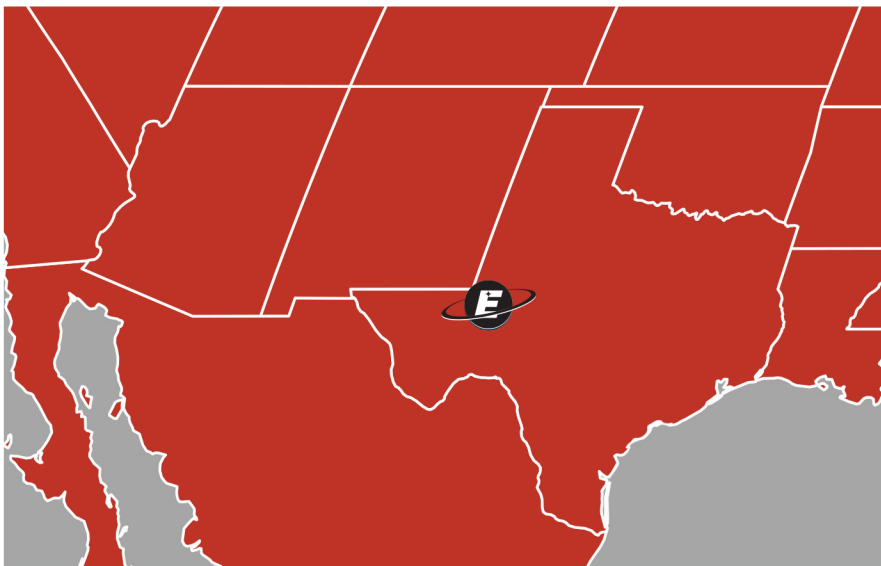
Additional sizes and ranges available upon request





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