



Unit Specifications

Coil Tubing Unit – E-coil Units



Titanium's' E-Coil Tubing Units are fully integrated units that are mounted on Peterbilt twin steer, tri-axle drive chassis. These Units have applications for deep horizontal completions and workovers, and have the advantage of carrying large diameter tubulars, while keeping the overall footprint small for congested well pads.

Titanium's' E- Coil Tubing Units are designed for reliability and meet all Standards for Highway vehicles. All Units have the ability to work on Class I, II, or III wells and are equipped to intervene on wells up to 500F.

Equipment

The Coil Tubing Unit has a variety of equipment included with the package such as an Extendible control cabin, an injector, a coil tubing reel, a picker, and a blowout preventer.

Control Cabin

Mounted on the deck is an automated scissor lift operator's station. It extends several feet above the tubing reel to give the operator a clear view of the wellhead and the activity around it. It is temperature controlled so the unit can be operated comfortably in temperatures from -40C to +40C.



There is a control panel in the operator's station and is fitted with the following:

- Full PLC control Controls
- Full Medco Data Acquisition System
- Hydraulic Controls
- Electronic Gauge Cluster
- Electronic BOP controls

Injector

This unit uses a Performance Innovations 80K injector

- Pull 80,000lb, Snub/40,000lb
- Rate in Low Gear 40 m/minute
- Injector weight 8600 lbs
- Chain Tension Hydraulically Adjusted
- Skate Pressure Hydraulically Adjusted
- Tubing Stripper NOV Quick-Strip 10K
- Blow Out Preventer 10K Quad BOP

Coil Tubing Reel

The reel uses Performance Innovations' offset open spoke type of construction with square and rectangular steel tubing. The 80" core consists of a rolled steel tube and lateral cross support beams. The tubing reel is mounted on heavy duty roller bearings in a steel frame that is complete with level line to spool the tubing evenly.

The reel is driven by a chain and sprocket assembly powered by a Danfoss hydraulic motor. Reel braking is accomplished through a self-aligning air operated brake caliper and a flange Mounted disk. The coiled tubing is connected to the reel shaft inside the reel core area. The reel is dual ported with a 10K Rotating Joint and has a three Valve manifold for easy, and safe rig up.

Reel Capacity

- 38.1mm diameter coiled tubing 5000 m
- 44.5mm diameter coiled tubing 4000 m
- 50.8mm diameter coiled tubing 3200 m
- 60.3mm diameter coiled tubing 1800 m

Picker

The Injector Head can be supported by it's onboard 11T Knuckle Picker or by a telescopic boom Crane with 45 US ton lift capacity.

BOP

This unit uses a 5" 10k Quad Hydraulic BOP system, which has Quick Lock Hydraulic Actuators, and complete with fire retardant hose package. Comes with a 20G Accumulator Skid with Nitrogen Backup and Remote Panel.

E- Coil Components

Titanium's E-Coil Units are designed for simple operation and that maximizes efficiency. Titanium uses high quality components and materials to manufacture its E-coil components. Titanium's components are proprietary in nature, but can be used with single or mono conductor electric line tools.

These components are:

- * 20K Psi Cable head with 1" Go-Thread Connector
- * Optional "pumpable" Cable Head, capable of circulating 400 LPM.
- * RTD Temperature Sensor for real time determining Downhole temperatures – optional log available
- * 10K Surface Bulk Head for Wireline at surface to Connect to Slip Rings.
- * Full Wireline and TCP services in conjunction with Titanium's Wireline services.