Unit Specifications
Coil Tubing Unit - Intermediate

The CWC Coil Tubing Intermediate Unit is a fully integrated coil tubing unit mounted on a Kenworth TA 800 twin steer, tridem drive chassis. This unit has applications in coal bed methane completions and workovers, oil and gas workovers, as well as remedial production programs.

CWC Coil Tubing units are designed to work in combination with CWC Nitrogen Pumping Units and have capabilities to work on Class I, II, or III wells.

Being mounted on a Kenworth chassis, this unit meets all the current Canadian Standards for highway vehicles.

Chassis
The chassis is a Kenworth T800 with tandem steering and tridem drive axles.

Weights and Dimensions:

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<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Overall Length</td>
<td>14m</td>
</tr>
<tr>
<td>B</td>
<td>Overall Height</td>
<td>4.24m</td>
</tr>
<tr>
<td>C</td>
<td>Rear Bumper</td>
<td>3.46m</td>
</tr>
<tr>
<td>D</td>
<td>Steering Axle Spacing</td>
<td>1.85m</td>
</tr>
<tr>
<td>E</td>
<td>Inter-Axle Spacing</td>
<td>5.87m</td>
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<tr>
<td>F</td>
<td>Drive Axle Spacing</td>
<td>1.55m</td>
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</table>

Maximum Width 2.71m
Front Tire Size | 445/65R22.5 (4x)
Rear Tire Size | 11R24.5 (8x)
Weight on Front Axles | 13,530 lb
Weight on Rear Axles | 19,940 lb

**Powertrain:**
- Engine: Caterpillar C-15
- Fuel Type: Diesel
- Horsepower: 550 @ 2100 RPM
- Torque: 1850 lb-ft @ 1200 RPM
- Transmission: Eaton RTLO-18918B
- Air Compressor: BW BA-921 15.9 Single Cylinder w/ Safety
- Air Dryer: Meritor 1200 Heated Dryer

**Fuel Tank**
The coil tubing unit truck is furnished with dual, 150 gal aluminum fuel tanks.

**Air System**
The air system for typical unit operation consists of the following:

- An engine mounted air compressor
- An air receiver system
- Complete pneumatic plumbing (valves, drains and gauges)

The air system also includes a single air dryer and alcohol injector as options.

**Hydraulic System**
The hydraulic system includes the following components:

- 5 Stage commercial gear pump
- 90 Series Sunstrand injector drive pump
- Accumulator Blow Out Preventer comes with Nitrogen back up
Equipment
The Coil Tubing Nitrogen Delivery 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 blow out preventer (BOP).

Control Cabin
Mounted on the deck is an automated telescoping operator’s station. It extends to a position several feet above the deck so the operator can see the wellhead and the activity around it. It is temperature controlled so the unit can be operated comfortably in a variety of weather conditions.

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

- Throttle Control
- Hydraulic Controls
- Oil Pressure Gauge
- Emergency Shutdown Switch
- Engine Temperature Gauge
- Air Pressure Gauge
- Carrier/Pump Selector
- Work Lights

Injector
This unit uses a Hydraco WD-30 injector

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Push/Pull</td>
<td>30,000 lb</td>
</tr>
<tr>
<td>Rate in Low Gear</td>
<td>50 m/minute</td>
</tr>
<tr>
<td>Injector weight</td>
<td>3500 lbs</td>
</tr>
<tr>
<td>Chain Tension</td>
<td>Hydraulically Adjusted</td>
</tr>
<tr>
<td>Skate Pressure</td>
<td>Hydraulically Adjusted</td>
</tr>
<tr>
<td>Tubing Stripper</td>
<td>NOV Quick-Strip 5K</td>
</tr>
<tr>
<td>Blow Out Preventer</td>
<td>5K Dual-Combination</td>
</tr>
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Coil Tubing Reel
The reel uses an offset open spoke type of construction with square and rectangular steel tubing. The 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 moved transversely by hydraulic cylinders 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. A high pressure ball valve is installed between the coiled tubing and the reel shaft.
**Reel Capacity**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Capacity</th>
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<tbody>
<tr>
<td>1 1/4&quot; diameter coiled tubing</td>
<td>3200 m</td>
</tr>
<tr>
<td>1 1/2&quot; diameter coiled tubing</td>
<td>2300 m</td>
</tr>
<tr>
<td>1 3/4&quot; diameter coiled tubing</td>
<td>1800 m</td>
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**Picker**

Our units are fitted with a Fassi F150A picker. It has a max capacity of 4490 kg at 2.2 m and 1210 kg at 10 m.

**BOP**

This unit uses a 4 1/16"-5000wp Dual Hydraulic Combination BOP.

**Picture**

![Picture of equipment](image.png)