



SERVAgrouP® CTTLR-131A Coiled Tubing Unit

DESCRIPTION

This unit consists of a Kenworth T800 tractor providing hydraulic power to the trailer mounted control cabin, reel and injector. The control cabin is telescoping to allow maximum visibility of reel, injector, crane truck and well site. The injector is a Hydra Rig model HR 660 capable of 60,000 lbs lift and 30,000 lbs snubbing. Hydraulic cylinders will tilt injector to allow coiled tubing to stay “stabbed” during transport.

The unit will employ an adjustable reel positioning system that will allow for maximum tubing capacity during all seasons. Reel capacity, by volume, is 5000 meters (16404 feet) of 2 inch, 0.134 thick wall tubing.



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Truck Chassis

Engine: C-15 500 500@2100 1650@1200
 Transmission: Fuller 15 speed with PTO
 Radiator: Export 1520 square inches cross flow
 Air Compressor: Bendix 16.5 CFM, TuFlo 750
 Air Cleaner: Dual 13 in
 Batteries: 4 PACCAR GP31 threaded post (700)
 Starter: PACCAR starter 12-volt Electrical system
 Front Axle: 20,000 lbs. Dana Spicer EFA-20F4
 Front Brakes: 16-1/2x6 in. 22,000 lbs. Bendix ES
 Rear Axle: Dual Rear Axle 58,000 lbs. Meritor RT58-380
 Rear Brakes: Dual Rear Brakes 16-1/2x7 in. 58-70K lbs. Meritor
 Rear Suspension: Rear suspension tandem Hendrickson RT650
 Front Tires: FR Bridgestone M844F, 445/65R22.5 20PR
 Rear Tires: RR Bridgestone M843, 315/80R22.5 20PR
 Frame Rail: Frame rails 11-5/8 x 3-7/8 x 3/8 in steel to 447
 Air Dryer: Air Dryer Bendix AD-IS Extended Purge heated

Reel Assembly

Will be skid mounted with spreader bar with lifting slings for lifting reels assembly and tubing drum and should also have the followings:

- Capacity 5000m of 1 1/4" OD tubing
- Core diameter of drum should be 72"
- Drum supported each end of shaft by cartridge roller bearings/roller bearing.
- Hydraulic drives motor with integral fail safe disc brake assembly through a chain and sprocket arrangement with cross relief valve protection for motor.
- Tubing spray/oiler system for diesel with remote control at console.
- Reel pivot cylinder for 15 degree angle, both side.
- Integral pollution drip tray with drain port.
- Diamond lead screw level wind spooler mechanism for automatic spooling equipped with manual override in either direction, hydraulically positioned spooler arm.

- Rotary joint 10,000psi T.P. flanges mounted to the reel main shaft to facilitate continuous circulation during operation.
- Isolation valve/plug valve should be mounted between the rotating joint and the tubing on the drum.
- Should have provision for plug/ball launcher in the coil tubing near isolation valve.
- Mechanical counter for tubing depth measurement 5 digit metric unit calibrated in meter. (RC-200 Cavin make. or equivalent),
- In addition to mechanical depth meter electronic digital depth showing system is also required with display in control cabin with company's suitable design for data acquisition in real time.
- Two 2" 10,000psi WP, 15,000psi TP, valve with Fig1502 unions should be connected through a tee to the rotating joint so that both the valves can be used separately for circulating purpose.
- Road locking device should be provided.
- Protective guards for reel and level wind drive chain.
- The outer and the inner circumference of the actual reel and the spokes should be constructed from structural steel.
- Tubing installed on the reel should be 5000m of 1 1/4" dia tubing of Quality or Precision make 70,000psi yield. Nominal wall thickness should be 0.109".
- Two 2" 10,000psi W/P, 15,000psi TP Fig 1502 style 10 swivel with 2", 1502 unions should be connected on each side of the pumping line.
- Turbine flow meter should be installed with suitable transducer to record liquid flow rate in the cabin.

Hydraulic reach

- Minimum – 16ft horizontal
- Maximum- 38ft extended in three sections
- Minimum 19,200 lbs capacity at 10ft.
- Crane to rotate 360 degrees