

COILED TUBING UNIT

Petrotesting coiled tubing unit is designed and fabricated by Stewart & Stevenson Services Inc., Houston, Texas.

The main components of the Unit are of a modular, lightweight, skid mounted design, for ease of lifting and positioning on site.

There are five basic skid Units that make up Petrotesting Coiled Tubing Package:

- Power Pack
- Control Cabin
- Coiled Tubing Reel
- Injector Head (series 800)
- Blow Out Preventer Assembly

All the Skid Units can also be truck mounted with a maximum width of 8ft.

Other Accessories include:

- Stripper Assembly
- Skid, Hose Reels, and Hose Assembly
- Dual Choke Manifold (Adjustable & Fixed)
- Flow Back Tank.
- Gas buster.
- All items are located in Port Harcourt.



CABIN/POWER PACK

The Unit is mounted on a single skid with crash frame and spreader lift bar. The unit is fully operational from the control cabin via mechanical, hydraulic and pneumatic controls.

CONTROL CABIN

The Unit is fully operational from the control cabin via mechanical, hydraulic and pneumatic controls.

Standard provisions in the control cabin include:

- Stainless steel panel
- Air conditioning unit
- Internal lighting system
- Two externally mounted work light
- All hydraulic connections to and from the cabin are connected via a removable hydraulic manifold. This manifold is stainless steel and features permanently engraved labeling of connection numbers.

The control console design incorporates a back-up pump, hydraulic valves, and interfaces.

POWER UNIT

Detroit Diesel Engine rated as follows:

- Detroit Diesel 6V – 92TA turbo charged diesel engine rated 30 BHP at 2100 RPM.
- Fuel Pump
- Heavy – duty dry type air cleaner assembly with filter element restriction indicators and stainless steel moisture eliminators.
- Air start system
- Safety shut down, low oil pressure, high water temp, engine over-speed.
- Exhaust muffler assembly – spark arresting.

Specifications

General engine specification:

Model :	6063 mk33
Type:	4-cycle, turbocharger, air to air cooling.
Brake horse power	: 350 @2100rpm (261 kw)
Rated speed	: 2100 rpm
Number of cylinder	: 6
Total displacement	: 778 in ³ (12.7L)
Compression ratio	: 16: 5: 1
Crank case vent system:	open
Length	: 57.2"
Width	: 34.3"
Height	: 54.2"
Dry weight	: 2550lb (1156kg)
Wet weight	: 2678lb (1214 kg)
Engine idle	: 600 rpm.

Skid Dimension Specification:

Weight	: 16,000lb (7,260kg)
Length	: 15.30 ft (4.80m)
Width	: 8.0 ft (2.44m)
Height (not including the A.C unit):	8.5ft (2.59m)

Diesel engine specification:

Model :	6063k33
Type :	12.7l, 4cycle, turbocharged, air to air cooling.
Number of cylinder	: 6
Output :	350 bhp (261 kw) at 2100rpm.