



**Premium Casing Services Limited**

**EQUIPMENT SPECIFICATION**



# Premium Casing Services Limited

## SPECIFICATION FOR DIESEL DRIVEN POWER UNIT

### **PU2500D1 SUPERIOR DIESEL DRIVEN POWER UNIT**

Welded skid with drip pan and removable hose basket complete with provisions for handling with forklift and crane.

#### **Specifications:**

- 140 gallon hydraulic reservoir with removable top baffle with vented filter cap, oil level port, suction strainer, suction isolation valve, return filter assembly, and relief valve.
- 42 gallon diesel tank with large bore fillup port, supply shutoff valve and return port.
- Powered by a 6 cylinder normally aspirated, air cooled Duetz diesel engine, 114 HP @ 2,300 RPM. Complete with wrapped manifold and spark arrestor, air starter, sentinel low oil pressure/high oil temperature shutdown, manual air intake shutdown, belt brake shutdown, hydraulic pump adapter and hydraulic throttle control.
- 2 stage pump delivers up to 60 GPM and 3,000 PSI with high/low valve.
- Fully assembled hydraulic system bulkhead with system pressure gauges and quick disconnects with hydraulic system shutoff valves, engine oil pressure and oil temperature gauges and remote emergency shut down pull cable for engine.

### **PU 2500 DIESEL DRIVEN POWER UNIT**



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## SPECIFICATION FOR 25" SINGLE MOTOR POWER CASING TONG

### **25in – 60K FARR** Hydraulic Power Casing Tong

For use with tubulars with diameters ranging from 8.5/8" to 25".

#### **Standard features include:**

- Safety interlocks fitted to prevent operation with doors open
- Doors open at the front, hence no requirement to strip over Casing
- Prepared to accept turns encoder with turns encoder adaptor.

#### **Specifications:**

- Torque Range @ 2,200 psi
  - 60,000 ft.lbs. in Low gear
  - 9,000 ft.lbs. in High gear
- Maximum RPM @ 60 GPM
  - 4 RPM in Low gear
  - 27 RPM in High gear
- Overall length: 89.3/4"
- Overall width: 54"
- Approximate Weight: 3,600 lbs.
- Space required on pipe: 10"
- Handle length: 57"
- Jaws Available (inches): 8.5/8", 9.5/8", 10.3/4", 11.3/4", 13.3/8", 16", 18.5/8", 20", 24" and 25"

### **FARR 25in – 60K SINGLE MOTOR CASING TONG**



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## SPECIFICATION FOR 20" POWER CASING TONG

### **KT 20000 - 20" FARR** Hydraulic Power Casing Tong

For use with tubulars with diameters ranging from 8.5/8" to 20".

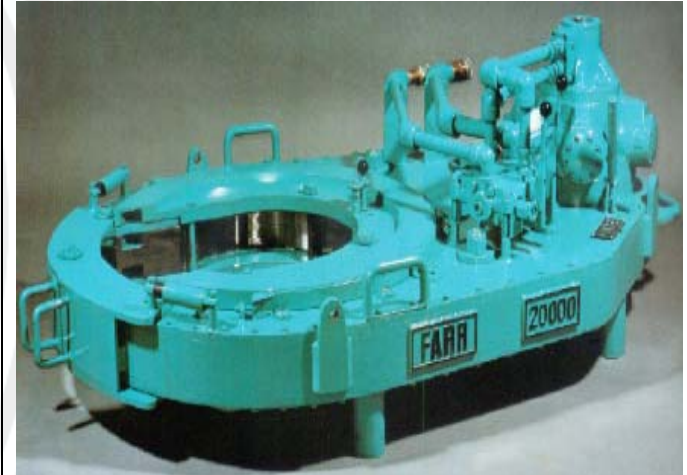
#### **Standard features include:**

- Safety interlocks fitted to prevent operation with doors open
- Doors open at the front, hence no requirement to strip over Casing
- Prepared to accept turns encoder with turns encoder adaptor.

#### **Specifications:**

- Torque Range @ 2,500 psi
  - 50,000 ft.lbs. in Low gear
  - 7,500 ft.lbs. in High gear
- Maximum RPM @ 60 GPM
  - 6 RPM in Low gear
  - 40 RPM in High gear
- Overall length: 78"
- Overall width: 48"
- Approximate Weight: 3,200 lbs.
- Space required on pipe: 10"
- Handle length: 52"
- Jaws Available (inches): 8.5/8", 9.5/8", 10.3/4", 11.3/4", 13.3/8", 16", 18.5/8", 20"

### **FARR KT 20000 CASING TONG**



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## SPECIFICATION FOR 13.5/8" POWER CASING TONG

### **LW 13625 13.3/8" FARR** Hydraulic Power Casing Tong

For use with tubulars with diameters ranging from 4.1/2" to 13.5/8".

#### **Standard features include:**

- Safety interlocks fitted to prevent operation with doors open
- Doors open at the front, hence no requirement to strip over Casing
- Prepared to accept turns encoder with turns encoder adaptor.

#### **Specifications:**

- Torque Range @ 2,000 psi
  - 25,000 ft.lbs. in Low gear
  - 5,000 ft.lbs. in High gear
- Maximum RPM @ 60 GPM
  - 9 RPM in Low gear
  - 46 RPM in High gear
- Overall length: 52"
- Overall width: 35"
- Approximate Weight: 1,350 lbs.
- Space required on pipe: 8"
- Handle length: 36"
- Jaws Available (inches): 4.1/2", 5", 5.1/2", 6.5/8", 7", 7.5/8", 8.5/8", 9.5/8", 10.3/4", 11.3/4", 13.3/8"

### **FARR LW 13625 CASING TONG**



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## SPECIFICATION FOR POWER TUBING TONG WITH HYDRAULIC BACK UP SYSTEM

**CLE7625 UHT 7.5/8" CLINCHER** Ultra High Torque Tong. Uses two sliding jaws. For use with tubulars with diameters ranging from 2-7/8" to 7-5/8". Dovetail jaw undersized gripping range: 3/8". Suitable for use with wrap around splined fine tooth steel dies, grit faced dies or aluminum dies with optional low friction jaws. Flow rate of 35 GPM @ 3,000 PSI with two speed manual shift gearbox provides: Maximum torque: 30,000 ft. lbs. @ 7 RPM in low gear; and 4,000 ft. lbs. @ 42 RPM in high gear.

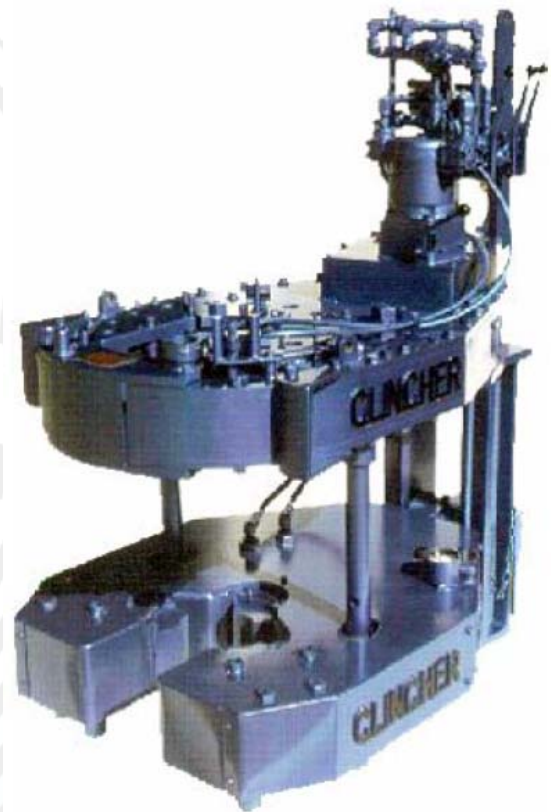
### Standard features include:

- Door shutdown system which prevents ring gear rotation when door is open while allowing full control of lift cylinder and back-up at all times.
- Supplied with two closed style tong handles, rigid hanger and turns encoder adapter.
- CLINCHER severe service cam followers, heavy duty rollers and forged high alloy steel ring gears provide additional toughness.
- Tong handle length: 36 inches

**BUC8625 8.5/8" CLINCHER** Ultra High Torque Back-up. Uses 2 hydraulically actuated jaws and one fixed jaw to provide more than 333 degrees of contact. Tubular capacity 2-7/8" to 8-5/8". 3,000 PSI provides Maximum Torque of 30,000 ft. lbs. For use with compression style load cells. Suitable for use with wrap around splined fine tooth steel dies, grit faced dies or aluminum dies.

- Backup handle length: 32 inches.

## CLE 7625 UHT TUBING TONG & BUC8625 BACK UP



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## SPECIFICATION FOR POWER TUBING TONG WITH HYDRAULIC BACK UP SYSTEM

**CLE550015C 5-1/2" CLINCHER** Ultra High Torque Tong. Uses two sliding jaws. For use with tubulars with diameters ranging from 2-1/16" to 5-1/2". Dovetail jaw undersized gripping range: 3/8". Suitable for use with wrap around splined fine tooth steel dies, grit faced dies or aluminum dies with optional low friction jaws. Flow rate of 35 GPM @ 3,000 PSI with two speed manual shift gearbox provides: Maximum torque: 25,000 ft. lbs. @ 8 RPM in low gear; and 4,000 ft. lbs. @ 45 RPM in high gear.

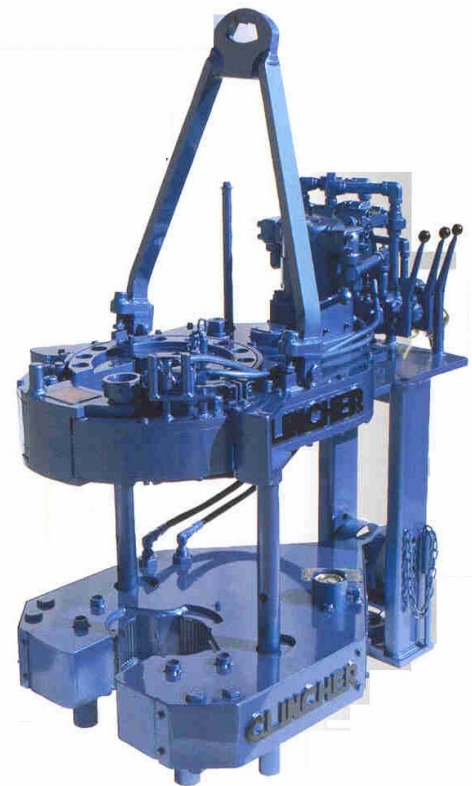
### Standard features include:

- Door shutdown system which prevents ring gear rotation when door is open while allowing full control of lift cylinder and back-up at all times.
- Supplied with two closed style tong handles, rigid hanger and turns encoder adapter.
- CLINCHER severe service cam followers, heavy duty rollers and forged high alloy steel ring gears provide additional toughness.

**BUC6250 6-1/4" CLINCHER** Ultra High Torque Back-up. Uses 2 hydraulically actuated jaws and one fixed jaw to provide more than 333 degrees of contact. Tubular capacity 2-1/16" -6-1/4". 3,000 PSI provides Maximum Torque of 25,000 ft. lbs. For use with compression style load cells. Suitable for use with wrap around splined fine tooth steel dies, grit faced dies or aluminum dies.

- Backup handle length: 28 inches.

## CLE 5500 15C UHT TUBING TONG & BUC6250 BACK UP



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## SPECIFICATION FOR TT2000 TONG-MOUNTED COMPUTERIZED TORQUE MONITORING SYSTEM

### Standard features includes:

- Toughened enclosure weather-proofed for harsh environments and touch screen capable for resisting mechanical impacts up to 20 Newtons directly on the screen without damage.
- TFT High definition Liquid Crystal Display (LCD) that allows viewing in direct sunlight. Touch screen menu with large on-screen push buttons for easy operation and user interaction in all configuration modes allows clear viewing of graph profile and clear determination of shoulder points etc.  
Menu based system with 8 user friendly options available to operator. These are namely Make-up Joint, Break Joint, Review Joint, Statistics, Test Hardware, Print Report and Advanced setup.
- 30 Preset Torque settings in memory to input the most common connection types within the region of operation. New parameters are easily stored. Equipped with hard disk and flash card.  
Electronic load cell and turns encoder and solenoid activated dump valve for precise torque control.
- Minimum sampling rate 0.059 Hz, Maximum sampling rate 30 Hz.
- Air filter prevents rig contaminants harming the computer.

### Technical Data:

- Certification to Ex p IIB T4 IP56 & Aus Ex 2520X (Exceeds requirements for Class 1, Division 1, Gas Group D hazardous areas).
- Min. Purge Pressure: 5KPa, Min. Purge Time: 7.5 Minutes, Min. Flow Rate: 20 L/min.
- Operating Voltage: 90 - 240 Volt AC – 50 / 60 Hz.

### TT 2000 TORQUE TURN COMPUTER UNIT – Tong Mounted



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## SPECIFICATION FOR TMS 100 CT3000 LT COMPUTERIZED TORQUE MONITORING SYSTEM

### TMS100 CT3000 LT Computerized Torque Control System

System is supplied complete with all peripheral equipment necessary to perform torque monitoring functions in an offshore environment where explosive gases may be encountered. Includes Vortex air cooler, sealed 101 Key keyboard, CT3000 remote power supply and Internal Surge suppressor

#### System includes:

- Torque Monitoring System (Requires 120 VAC 60 HZ 100 Watt Power Supply)
- Powered by DELL laptop, 1.20Gb processor, 128 Mb RAM, 20Gb hard disk, Windows XP OS.
- Intelligent Data Acquisition Remote Computer c/w 16 bit processor, LCD display and Indicator lights.
- Software package include, Torque/Turn, Torque/Turn/Time and, Torque/Time
- Electronic Load Cell to suit power tong handle length rated at a maximum of 50,000 ft. lbs.
- System allows input of make up parameters, storage of results, and output to printer.
- Shaft encoder, 200 ppr, with cable and connector
- Molded Transport Case for CT3000 and equipment

### TMS100 CT3000 LT COMPUTERIZED TORQUE CONTROL SYSTEM



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## SPECIFICATION FOR DAVIS FILL & CIRCULATE TOOL

**Davis Fill & Circulate Tool (FAC)** offers operators the safest and most efficient means to fill or circulate casing strings at desired rates as they are being run. In the fill position, fluid is pumped through the mandrel and the mud saver valve as the casing is being lowered into the well. In the circulate position, the sealing element, slightly larger than the ID of the casing, is lowered into the casing and forms a seal between the FAC Tool and the casing. Pressure applied to the casing for the fluid circulation causes the fluid to enter an area behind the sealing element, energizing it to seal against fluid by-pass.

### Standard features include:

- Fluid pressure-energized sealing element.
- Tapered aluminum gauge ring below the sealing element protects against thread damage and acts to centralize the tool in the casing.
- Mud-saver valve that retains the static head of the mud and prevents mud from dripping onto the rig floor as tool is being raised into the derrick.
- Flexible steel-reinforced rubber hose with brass guide cone gives added flexibility for inserting the FAC Tool into the casing. Rubber insert on guide cone absorbs impact blows to casing during stabbing, filling, and circulating.
- Reverse flow through the check valve allows any pressure trapped below the FAC Tool to be released prior to removal from casing.
- No “hands-on” manipulation of the FAC Tool is required to change from the fill to the circulate mode, or vice versa.
- The sealing element is easily changed by a single break at the retainer sub.
- The same basic tool body can be adapted for use with several sizes of casing strings by changing the seal retainer ring, sealing

### DAVIS FILL & CIRCULATE TOOL



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## CASING AND TUBING HANDLING EQUIPMENT

### Handling Equipment and Accessories

Full fleet of handling equipment and accessories to handle all sizes of tubing and casing.

- Flush Mounted Spiders
- 750 / 500 & 350 Ton Air Operated Spider/Elevators
- Hinged Spider and Bowls
- Side Door and Slip Type & Single Joint Elevators
- Manual Rotary Slips
- Manual casing & Tubing Tongs
- Safety Clamps
- Stab-in Guides
- Clamp on Thread Protectors
- Fill up & Circulate Tools
- False Rotary Tables
- C-Plates
- Insert Bowls and Casing Bushings



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