

COMPLETION AND TUBULAR RUNNING SERVICE



Range of activity:

We are performing our jobs in vertical and horizontal wells:

- Open hole completion design
- Supplying downhole equipment according to customer requirements and specifications
- Setting the liner hangers and liner packers
- Inflatable External Casing Packers setting
- Setting of production packers
- Installation and maintenance of downhole safety valves
- Running of injection and control lines
- Setting of cement retainers and bridge plugs
- Testing, control and preparation of downhole equipment supplies components
- As part of our comprehensive casing and tubular services, we make thread connections and run casing, production tubing and bottomhole assembly components into boreholes, with the use of hydraulic tongs from the world's leading manufacturers
- With our hydraulic tongs, in sizes ranging from 2 3/8" to 20", as well as experienced casing personnel, we are prepared to fulfil almost any requirement
- Our tongs are equipped with integral backup systems to ensure optimum connection quality
- Apart from standard tongs, we use tools with improved grip for scratch-free connection of chromium parts in sizes from 3 1/2" to 13 5/8"



EQUIPMENT

Diesel Powered Hydraulic Skid

Model	Engine	Maximum Flow/Pressure	Dimensions	Weight	Hydraulic Oil Capacity HRES-150	Diesel Capacity	Quantity
DPU660-05	6 Cylinder Diesel Engine Deutz FL=6L914 115 HP / 2 300 RPM	58-60 GPM - 1400 PSI 29-30 GPM - 2900 PSI	102"L x 48"W x 62 3/4"H	7000 lbs/ 3175 kg	140 US Gal./530 L	42 US Gal./159 L	5
DPU660-05	4 Cylinder Diesel Engine/ Deutz FL=6L914 75 HP	45-55 GPM - 1200 PSI 20-30 GPM - 3500 PSI	106"L x 49"W x 71"H	6000 lbs/ 2700 kg	80 Gal./300 L	27 Gal./100 L	1
Weatherford	6 Cylinder Diesel Engine Deutz FL=6L914 99 HP	65-72 GPM - 1160 PSI 29-30 GPM - 2900 PSI	97"L x 48"W x 57"H	4850 lbs/ 2200 kg	80 Gal./300 L	24 Gal./90 L	1



EQUIPMENT

Hydraulic power tong

	Maximum torque	Max operating pressure	Two gears	Tong Jaw Capacity	Quantity
Hydraulic power tong	3 000 PSI/207 bar T	6 500 ft.lbs / 8 813 Nm	high: 52 RPM, low: 26 RPM	1,6" – 3 1/2"	1
Hydraulic power tong	40 000 ft.lbs/ 54 232 Nm	3 000 PSI / 207 bar	high: 28 RPM, low: 4 RPM	2 3/8" – 10 3/4"	2
Hydraulic power tong	50 000 ft.lbs / 67,791 Nm	2 500 PSI / 172,4 bar	high: 23 RPM, low: 3 RPM	7" – 20"	1
Hydraulic power tong	18 700 ft.lbs / 25 357 Nm	2 000 PSI	high: 58 RPM, low: 11 RPM	2 3/8" – 5 1/2"	2
Hydraulic power tong	18 500 ft.lbs/25 083 Nm	2 000 PSI	high: 89 RPM, low: 21 RPM	7" – 13 3/8"	1
Hydraulic power tong	18 500 ft.lbs/25 083 Nm	2 000 PSI	high: RPM, low: RPM	2 3/8" – 3,5"	2
Hydraulic power tong	25 000 ft.lbs/33 900 Nm	2 000 PSI	high: 49 RPM, low: 9 RPM	2 3/8" – 8 1/2"	1
Hydraulic power tong Weatherford Model TT 5,5-15	15 000 ft.lbs/ 20 340 Nm	2 500 PSI / 175 bar	high: 88 RPM, low: 28 RPM	1,66" – 5 1/2"	2
Hydraulic power tong Weatherford Model WL 5,5-15	15 000 ft.lbs / 20 340 Nm	2 500 PSI / 175 bar	high: 88 RPM, low: 28 RPM	1,66" – 5 1/2"	1
Hydraulic power tong Weatherford 16 K	25 000 ft.lbs/ 34 000 Nm	2 400 PSI / 174 bar	high: 85 RPM, low: 10 RPM	4 1/2" – 13 3/8"	1
Hydraulic power tong UNIVERSE 13 3/8"	25 000 ft.lbs/ 34 000 Nm	3 500 PSI	high: 75 RPM, low: 20 RPM	3 1/2" – 13 3/8"	2
Hydraulic power tong	50 000 ft.lbs	2 500 PSI	high: 31 RPM, low: 5 RPM	16" – 20"	1
Hydraulic power tong	50 000 ft.lbs	2 500 PSI	high: 40 RPM, low: 6 RPM	4 1/2" – 13 3/8"	1
Hydraulic power tong	18 500 ft.lbs	2 400 PSI / 174 bar	high: 89 RPM, low: 21 RPM	2 3/8" – 13 3/8"	3
Hydraulic power tong	18 500 ft.lbs	2 000 PSI	high: 89 RPM, low: 21 RPM	2 3/8" – 3,5"	2
Hydraulic power tong	25 000 ft.lbs / 33 900 Nm	2 400 PSI / 165 bar	high: 89 RPM, low: 21 RPM	7" – 13 3/8"	1
Hydraulic power tong	18 000 ft.lbs / 24 300 Nm	2 400 PSI / 165 bar	high: 89 RPM, low: 21 RPM	7" – 13 3/8"	1
Hydraulic power tong	15 000 ft.lbs / 20 000 Nm	2 500 PSI / 172 bar	high: 88 RPM, low: 10 RPM	2 3/8" – 2 7/8"	1
Hydraulic power tong	25 000 ft.lbs / 33 900 Nm	2 400 PSI / 165 bar	high: 89 RPM, low: 21 RPM	2 3/8" – 3,5"	2
Hydraulic power tong	25 000 ft.lbs / 33 900 Nm	2 400 PSI / 165 bar	high: 89 RPM, niski: 21 RPM	7" – 13 3/8"	1

Torque tec monitoring system

- Class 1, Zone 2, Code T3 Atex 11, CE marked
- Ex nA & AEx nA II T3 IP56: NEMA 4/IP65 water proofing
- ATEX Certified dump valve
- 1/1000th of turn measurement
- Operating temperature range : up -20°C to +50°C
- Main unit dimensions: 15" x 11" x 4"
- Main unit weight > 19 lbs
- Universal 110 – 220 V AC power
- Software futures:
 - Multiple load cell support for HWQ snubbing and well abandonment operations
 - Windows based user interface
 - Torque vs Turn, Torque vs Time, Torque turn vs Time
 - Pressure testing mode (hydro-test or Gas-test)
 - Premium API & Break-out modes
 - Onshore reports package – hard or soft copy

System monitoringu Farr Canada WinCatt

- ATEX Certification CAT 2(Zone 1) Purge System
- Pressurized Enclosure: Stainless Steel Enclosure for Class 1 , Div. 1
- ATEX Certified dump valve
- CUL, NFPA and ATEX APPROVED
- Operating temperature range: up -20°C to +50°C
- Main unit dimensions: 25" x 20" x 15"
- Main unit weight: > 50 lbs
- Universal 110 – 220 V AC power
- Software futures:
 - Multiple load cell support for HWQ snubbing and well abandonment operations
 - Windows based user interface Torque vs Turn, Torque vs Time, Torque turn vs Time
 - Group A-D and Zone 1&2 locations
 - Premium API & Break-out modes
 - Onshore reports package – hard or soft copy

Pneumatic slips

	Load Capacity	Pipe diameter	Quantity
1.	350 tons	4 1/2" – 14"	1
2.	75 tons	1,6" - 4 1/2"	1
3.	350 tons	4 1/2" – 13 3/8"	3

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