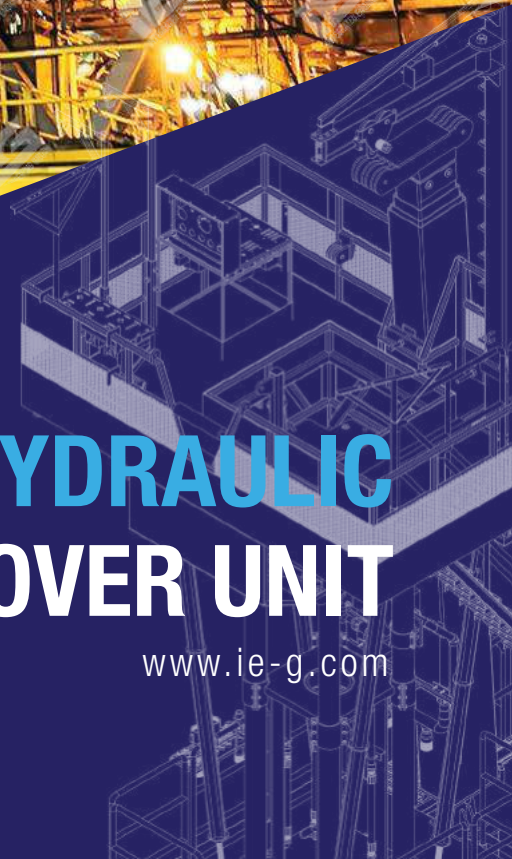
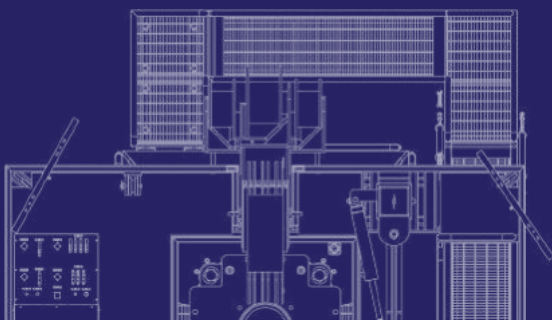


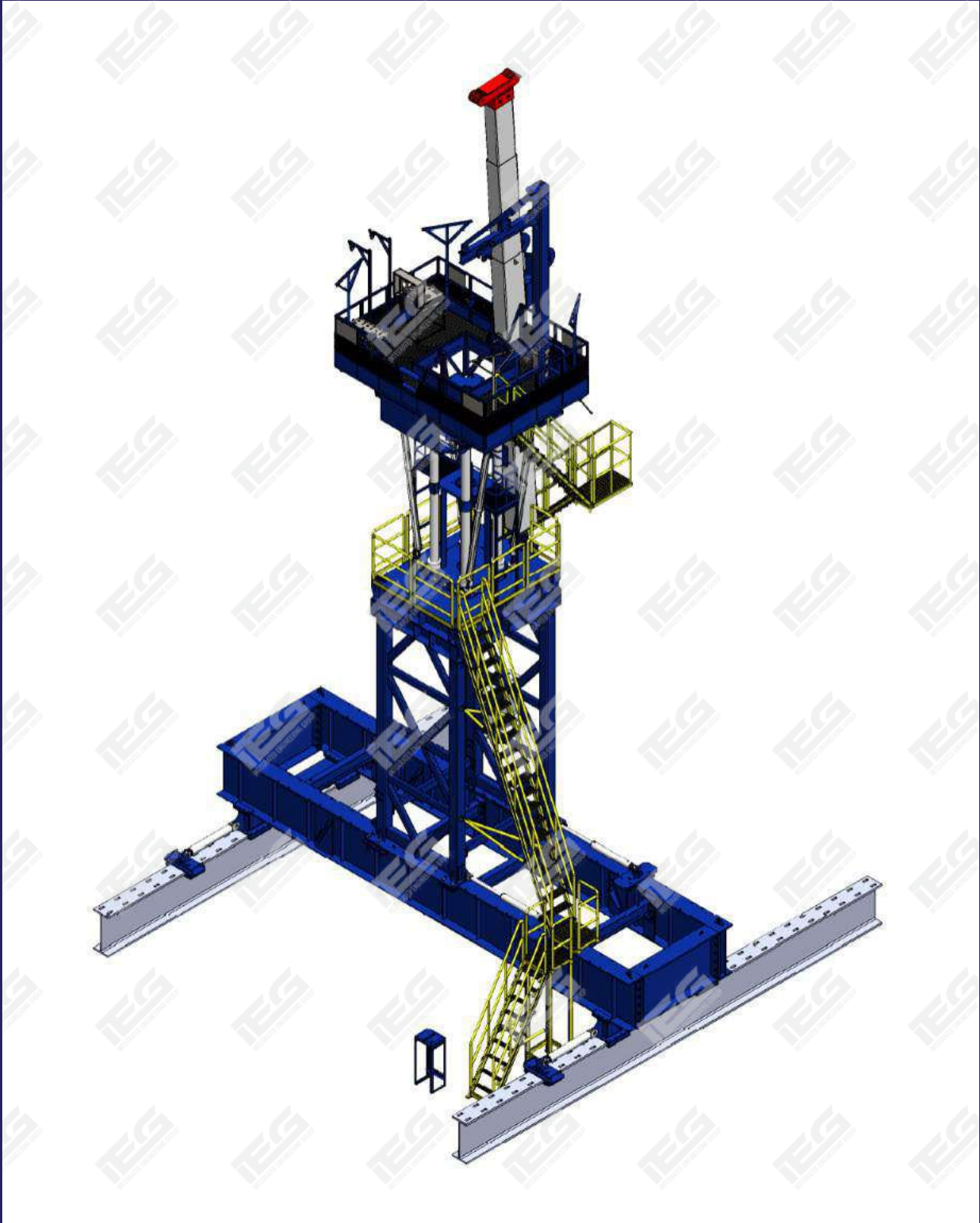


HYDRAULIC WORKOVER UNIT

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HWU460K HYDRAULICS WORKOVER RIG SPECIFICATIONS (ZONE 2)


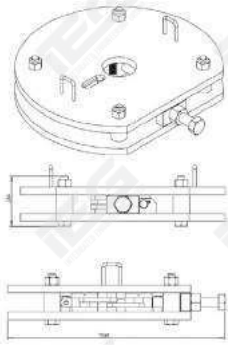




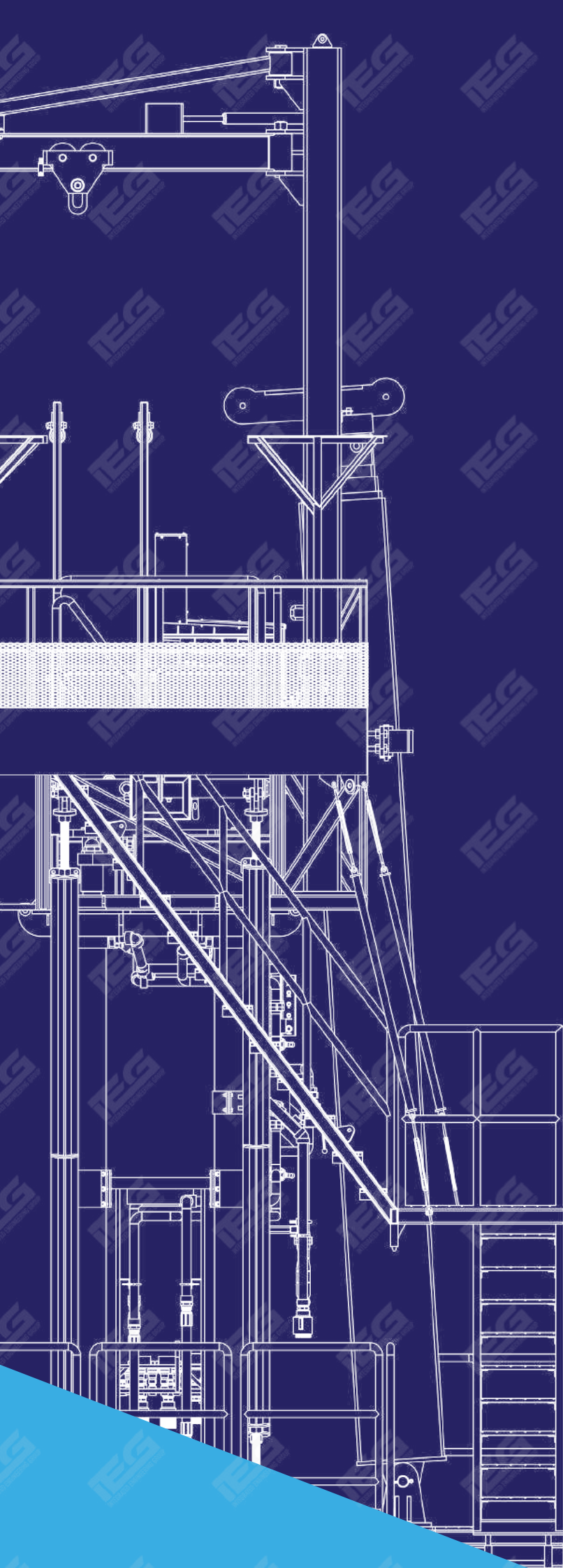
NO	UNITS	SPECIFICATION	QTY	DIAGRAM
1	GIN POLE	<ol style="list-style-type: none"> 1. 4 Section – 5MT Telescopic Gin Pole 2. Manual Pin Locking System 3. Hydraulic Operated Scoping Up & Down 4. Minimum Length: 8.0M 5. Maximum Length: 22.5M from Subbase 6. 2 X Counter Balance Winch: 2.5T Lift Capacity 7. 1 X BHA Winch: 5MT Lift Capacity 8. 4 Legs Lifting Wire Completed with Shackle for each leg for Lifting Gears. <p>Dimension: L8.0M x W1.0M x H1.2M Weight: 6.50MT</p>	1	
1.1	CB & BHA WINCHES	<ol style="list-style-type: none"> 1. Hydraulic Motor with built in counter balance valve 2. Drum with Disc Mechanical Brake System 3. Cable: 14MM x 75M Long Wire Rope Sling (CB) 4. Cable: 16MM x 75M Long Wire Rope Sling (BHA) 5. Capacity: 2.5 Tons X 2 (CB) / 5 Tons X 1 (BHA) 6. Handling Capability: 1” to 7” Tubular 7. Operating Speed Lift: 52 Joints/Hr 8. Hydraulic Winch Assembly Capable of Handling 9. Capable of Handling Pipe from size: 2-7/8” ~ 13-3/8” 10. Line equipped with Swivel, 2 Legs Wire Rope and Pipe Elevator. <p>Dimension: L1.26M X W1.0M X H0.7M Weight: 1.0 Tons</p>	2 (CB) 1 (BHA)	
2	WORK BASKET	<ol style="list-style-type: none"> 1. Counterbalance Control Panel 2. Caged Access Ladder to Deck 3. Hand Rail Minimum Height: 1.2M 4. Kick-Plate around the Basket 5. 3 x Escape Devices to Evacuate All Personnel 2 x Escape Lines & 1 x Ladder 6. Pipe Opening via V-door with Roller System 7. For 4 x Pole Lighting Holder for 24 hours Operations <p>Dimension: L4.35M x W3.0M x H2.35M Weight: 6.5MT</p>	1	
2.1	TONG ARM	<ol style="list-style-type: none"> 1. Structural Load to Hang Up to 5500 LBS 2. 5500 LBS Rated Pulley 3. Hydraulic Cylinder for Swivel Control 4. 5T Capacity Plain Trolley for Tong Unit Hanger <p>Dimension: L5.1M x W.75M x H2.1M Weight: 1.50 Tons</p>	1	

NO	UNITS	SPECIFICATION	QTY	DIAGRAM
2.2	LADDERS	1. Ladder Hand Rail Minimum Height: 1.2M 2. Ladder Stair Width: 0.5M Dimension: L5.2M x W2.00M x H1.6M Each Weight: 2.5MT Each	1	
3	JACK STRUCTURE	1. Four Cylinder Hydraulic Jack Assembly Rated at 460,000 lbs. Pull and 241,000 lbs. Snub Minimum. 2. Cylinder Bore Diameter: 7" 3. Cylinder Rod Diameter: 5" 4. Stroke: 10ft 5. Bore Diameter: 17" 6. HUSCO 6500 Split Spool open center sectional control valves with 950lpm max Flow and 210Bar of Max Pressure Rated 7. HUSCO 6000 for Pilot Operated spool hydraulic directional control valve. 8. 4 X Turn Buckle - Mounting from Work Basket to Subbase 9. Weight Indicator Connected by Load Cell System, Combined with Hydraulic System 10. Build for 17" Bore Hole Dimension: L2.5M x W2.5M x H5.0M Weight: 8.5MT	1	
3.1	ROTARY TABLE	1. Rotating Capability: 22,000 ft-lb Torque 2. 80-100 RPM Maximum (CW and ACW) Locking Devices 3. 4 Motor Pump (Hydraulic Variable Piston Pump) 4. Bore Hole: 14-1/2" Dimension: L1.6M X W1.60M X H0.3M Weight: 1.2MT	1	
3.2	COUNTER BALANCE CONSOLE	1. 0 - 3.500 Psi Pressure Gauge (Counter Balance #01) 2. 0 - 3.500 Psi Pressure Gauge (Counter Balance #02) 3. 0 - 3.500 Psi Pressure Gauge (BHA) 4. 3 x PARKER - Open Center Directional Control Valve, completed with internal safety relief valve. 5. 3 x Relief Valve, 1-1/4" (EATON) 6. 3 x Remote Relief Valve, 1/4" (EATON)	1	

NO	UNITS	SPECIFICATION	QTY	DIAGRAM
3.3	OPERATOR CONSOLE	<ol style="list-style-type: none"> 1. Weight Indicator for Lift ~ 340.000 LBS, Load Cell 2. Weight Indicator for Lift ~ 340.000 LBS, Hyd Pressure 3. Torque Indicator for Rotary Unit ~30.000 Ft/Lbs 4. Tachometer for RPM Indicator of Rotary Unit ~999.999 RPM 5. 3.500 Psi Pressure Gauge Hydraulic Jack (Wika) 6. 3.500 Psi Pressure Gauge for Hydraulic Slip (Wika) 7. 3.500 Psi Pressure Gauge for Rotary Table (Wika) 8. 3.500 Psi Pressure Gauge for BOP (Wika) 9. 3.500 Psi Pressure Gauge for AUX (Wika) 10. 250 Psi Pressure Gauge for Air Pressure (Wika) 11. 10.000 Psi Pressure Gauge for Pump BOP Pressure (Wika) 12. 1 x Jack Operator Handle (Husco) 13. 4 x Slip Operator Handle (Parker) 14. 3 x AUX Operator Handle (Parker) 15. 1 x Rotary Table Operator Handle (Walvoil) 16. 1 x Remote Valve for Hyd Jack Pressure (EATON) 17. 1 x Remote Valve for Slip Bowl Pressure (EATON) 18. 1 x Remote Engine Shut Down Push Button 19. 1 x Remote Engine Start Push Button 20. 1 x Remote Emergency Engine Shutdown Push Button 21. 1 x Air Horn and It push Button 22. 1 x Remote Engine Throttle - Air Control Valve (REXROTH / AVENTICS) 23. 1 x Selector Valve for Jack High/Low Mode (Hydraulic Operated) (PARKER) 	1	
4	SUB BASE	<ol style="list-style-type: none"> 1. Structure: Square Hollow Section 2. Floor: Anti Slip Coating 3. Hand Rail Minimum Height: 1.2M 4. Bolt Pattern for Slips 460K Bowls 5. Connected with Gin Pole Main Structure 6. Workspace for Workover Support Job 7. Supply completed with lifting gears for ease of rig up and rig down. 8. Build for 17" Bore Hole <p>Dimension: L3.0M x W2.5M x H0.75M Weight: 7.00MT</p>	1	

NO	UNITS	SPECIFICATION	QTY	DIAGRAM
5	POWER PACK UNIT (ZONE 2)	<ol style="list-style-type: none"> 1. Skid and Frame in Accordance with DNV 2.7-3 2. Zone 2 Kit Conversion Set (Brand: Mirreti / Pyroban) 3. 12V92TA Series Detroit Diesel Engine: 600HP@2000 RPM 4. Durst Gear Box, 4 Port with 1:1 Ratio of Engine Rotation 5. Non-Sparking Starting System (Compressed Air) Hydraulic or Inertia. 6. Flame Trap Component on the Air Inlet. 7. Remote Shutdown System 8. Automatic Shutdown - Over Speed 9. Sentinel with Auto Shutdown Sensitive to High Temperature System and Low Oil Fuel 10. Relief and Unloading Valves apply for hydraulic output control by sizes that suit to the respective system required. 11. Equipped with oil cooler mechanism that suitable to the system required. 12. Drip Pan Offshore Standard 13. Engine Gauge Panel to showing engine indication and control switch of Engine Start, Stop, ESD and Throttle. 14. Pneumatic Starting Applied with support of 50L Air Tank. 15. Exhaust/Muffler with built in spark arrestor 16. Parker and Denison Vane and Gear Hydraulic Pump to be the main pump system. 17. 12 CFM Air Compressor Inside 18. Hydraulic Tank: 1200L 19. Equipped with hydraulic oil cooler by Parker – LHC Series Oil Cooler. 20. Apply Quick Disconnected mechanism for external hose line hook up. 21. Hydraulic System consist of 11 Output: <ul style="list-style-type: none"> X 4 Main Hydraulic Jack Unit X 1 Main Hydraulic Directional Spider Slip/BOP X 1 Power Tong Hydraulic Supply X 2 Main Supply of Counter Balance Winch X 1 Main Supply of Rotary Unit X 1 Main Supply of Auxiliary Directional Valve X 1 Oil Cooler Motor Function <p>Dimension: L4.0M X W2.0M X H2.5M Weight: : 8MT X 2</p>	2	

NO	UNITS	SPECIFICATION	QTY	DIAGRAM
6	SLIP BOWL	Bowl and Slip: Hydraulic Cylinder, Manual Actuated "CHD" Slip Type built and fabricated by "WESTCO" For Travelling and Stationary Contact Pipe Handling Bowl and Slip: Hydraulic CHD 125 Tons Capacity for 2-3/8" to 5-1/2" 1. Slip Size: CHD 2-3/8" x 125 Tons 2. Slip Size: CHD 2-7/8" x 125 Tons 3. Slip Size: CHD 3-1/2" x 125 Tons 4. Slip Size: CHD 4" x 125 Tons 5. Slip Size: CHD 4-1/2" x 125 Tons 6. Slip Size: CHD 5" x 125 Tons 7. Slip Size: CHD 5-1/2" x 125 Tons	1	
7	MANUAL SAFETY SLIPS	1. Safety Clamp Slip (Design & Built by IEG) 2. Bore 6.5" 3. Manual Adjustable Slip Type 4. Handling size range from 2-7/8" to 6" 5. Interchange Dies type 3/8" H x 1-1/4" W X 2-1/2" Lg With diamond tip shape. 6. Supply completed with lifting gears for ease of rig up and rig down. Dimension: L1.45M X W1.0M X H0.25M Weight: 500Kg	1	
8	HYDRAULIC POWER TONG	5-1/2" TEDA Tong (Drill Pipe) <ul style="list-style-type: none"> Capacity: 2-3/8" to 5-1/2" Application Range: 2 3/8"-3 1/2" drill pipe, 2 3/8"-4 1/2" tubing and 4 1/2"-5 1/2" casing Oil Supply Pressure: 16Mpa Oil Supply Amount: 120 LPM High Gear Torque: 5.1 K Nm High Gear Rotation Speed: 43 RPM Low Gear Torque: 25 K Nm Low Gear Rotation Speed: 8 RPM Dimension: L.1.3M X W.0.77M X H.0.78M Weight: 680KG	1	
9	FUEL TANK	1. Capacity: 3400 Liters 2. Type: Rectangle 3. 6 x Outlets 4. Use for Power Pack, Mud Pump & Others 5. Equipped with 1Mtr Sight Glass, for oil level indication. 6. Equipped with lifting gears for ease mobilization. 7. Install with Breather. Dimension: L3.0M X W1.7M X H1.8M Weight: 5.50 Tons	1	



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