

Manufactured
• By Hong Hua USA
• Year 2014

RIG 201

1500HP, VFD Bolt- Cyber Drilling Rig



Rated Drilling Depth
• 18,000ft. using 5 in. drill pipe

Mast
• Hong Hua
• 142 ft
• 760,000 lbs Static Hook Load Capacity with 12 lines

Sub Structure
• Hong Hua 30 ft Nominal Height, 25.5 ft Clear Height, raised with 2 hydraulic cylinders
• Max Simultaneous Load 1,150,000 lbs

Drawworks
• Hong Hua, JC50DB with Direct Drive A.C. Motor + Dynamic Brake
• Max. Input Power 1850 HP
• Drilling line: 1-1/4 in

Rotary Equipment
• Top drive Honghua Model DQ500Z - 500 Tons, Driven by AC Direct Drive traction motor HH 940. Continuous torque rating 51.600 fr-lb @ 120 rpm, intermittent torque 77.440 ft-lbs; Maximum Speed rating 220 rpm; Maximum B/O Torque 77.400 ft-lb; Drill Pipe Range 3 1/2" to 8-1/2" - Upper & Lower IBOP 6-5/8" Reg box X Box - Independent VFD House
Rotary table HH 37 1/2", hydraulically Driven by a single M550 Hydraulic Motor

Integrated Drillers Control Chair (Driller's Cabin)
• Hong Hua Driller operation and control system, a touch screen and joysticks to operate rotary table; drawworks, and mud pump, to operate twin stop protection available. Digitally displayed parameters on touch screen include weight of string, weight on bit, standpipe pressure, mud flow out, pump stroke (including accumulated value), rotary table torque rotary table speed, hook speed, bit feed speed, makeup and breakout torques and catheads, traveling block height, etc

Power & Power Distribution System
• Siemens Variable Frequency Drive with Siemens PLC
• Four (4) Cat 3512, 1476 HP
• Four (4) Generators (1100 KW)
• One (1) Auxiliary Generator with C15 Cat Engine and 320 KW Generator

Mud Pumps, Mud Handling & Solids Control
Mud Pumps
• Three (3) Honghua 1600HP, 7500psi, with Direct Drive AC Motor 1600HP
Mud System
• 1.580 bbl Capacity with 15HP agitators and 3" Low Pressure Mud Guns
Solids Control
• Three (3) Shale Shakers Derrick Hyperpool
• One (1) Mud Cleaner with Derrick Hyperpool shaker 3 X 10" Desander cones and 20 X 4" Desilter Cones
• One (1) Derrick Vacuum Type Degasser Vacu-Flo 1200

Blowout Prevention (BOP) System
• One (1) 13-5/8" x 5M & Bottom flange 10M HSRB Annular
• One (1) 13-5/8" x 10M HRSB Double Type U Ram
• One (1) 13-5/8" x 10M HRSB Single Type Ram
• One (1) drilling spool 13-5/8" 10K w/ 4-1/16 outlets

Walking System
• Step by Step type, max. distance per step 1 Ft, speed 16 ft/ hour, moving 8 directions X, Y and 45° direction, Rig walking with 292 tons (584.000 lbs) drill string - 50 meters extension with high pressure lines rated to 7500psi working pressure

Hydraulic Roughneck
• Blohm & Voss FH 100 Pipe Range (tool joint OD) 4" to 9-1/2"; Make-up Torque 80.000 ft-lbs; Max. Break-out Torque 100.000 ft-lbs
• Power Slips Model Blohm & Voss PS 500 - 500 Ton Pipe Size 2 3/8" -14"

Automatic Catwalk:
• Weatherford - PULD - Hydraulic Pick Up and Lay Down Machine - Max. Load 8000lb - Max. Diameter Csg 20"