

Manufactured  
• By Hong Hua USA  
• Year 2018

# RIG 202

## 2000HP Cyber Drilling Rig

Horizontal Drilling, High Volume Hydraulics, High Pressure & High Torque



### Rated Drilling Depth

- 23,000 ft. using 5", or 18,300 ft using 5-7/8" or 5-1/2" drill pipe

### Mast

- Hong Hua, K Type 152 ft x 1'000,000 lbs Static Hook Load Capacity with 12 lines, raised with 2 raising lines 2-7/8" x 157 ft
- Intermediate Belly-board for racking casing or tubing

### Sub Structure

- Hong Hua Slingshot type 34 ft nominal rig floor height, clearance height 30 ft
- Rotary Table Load 1.000.000 lbs
- Seat back Load 600.000 lbs
- Max combines 1,600,000 lbs

### Drawworks

- Hong Hua, JC70DB
- Max. Input Power 2600HP w/ 2ea traction motor 1300 HP
- Drilling line 1-1/2 in with fast line capacity 110,000 lbs
- Auxiliary drive unit hoist max weight 554,000 lbs

### Rotary Equipment

- Top drive: Hong Hua Model DQ500Z - 500 Tons, 51,630 ft. lbs. continuous torque, 7500 PSI working pressure; Driven by AC traction motor HH 940 HP; Maximum Speed rating 220 rpm; Working torque 51.630 ft-lb; Maximum B/O Torque 77400 ft-lb; Drill Pipe Range 3 1/2" to 8-1/2" - Upper & Lower IBOP 6-5/8" Reg Box x Reg Box Independent VFD House
- Rotary table: HH 37 1/2"; independent electric Drive 800hp motor, Max 23.868 ft/lbs. capacity 1.000.000 lbs 300 RPM/Min with Invertin Brake

### Integrated Drillers Control Chair (Driller's Cabin)

- Hong Hua Driller operation and control system, a touch screen and DW joysticks on the left, and the other touch screen and disc brake handle on the right; can operate and control the rotary table; drawworks, and mud pump, can detect to traveling block position for block and drill floor protection digital display parameters on touch screen 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

- VFD-ABB Variable Frequency Drive with Schneider controls and Siemens PLC
- Four (4) Cat 3512C, 1476 HP Tier 2
- Four (4) Kato Generators (1365 KW)

### Mud Pumps, Mud Handling & Solids Control

- Three (3) Hong Hua HH1600 HL, 1600 HP with 7500psi fluid-end modules

### Mud System

- 2.000 bbl Capacity mud system curved bottom Tanks
- Solids Control
- Four (4) Shale Shakers MI Swaco Mongoose Pro, 650 gpm
- One (1) 3-in-1 Mud Cleaner, MI Swaco Mongoose Pro, 3 X 12" Desander cones and 20 X 4" Desilter Cones
- One (1) Swaco Compact D-Degasser

### Blowout Prevention (BOP) System:

- One (1) 13-5/8" x 5M & Bottom flange 10M HSRB Annular Preventer
- One (1) 13-5/8" x 10M HRSB Double Type U Ram Preventer
- One (1) 13-5/8" x 10M HRSB Single Type U Ram Preventer
- One (1) drilling spool 13-5/8" 10K with 4-1/16 outlets

### Walking System

- Step by Step type, max. distance per step 300mm, speed 5mts/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

- Bauer PT 100/800 Pipe Range (tool joint OD) 4" to 9-1/2"; Spin Speed 80 to 120 rpm Max. Make-up Torque 87.770 ft-lbs; Max. Break-out Torque 118.000 ft-lbs

### Automatic Catwalk

- Weatherford - PULDM - Hydraulic Pick Up and Lay Down Machine - Max. Load 8000lb - Max. Diameter Csg 20"