HH300 Rig Information

HH 300 at a glance

Last generation Drillmec Hydraulic Hoist drilling rig (HH serie):
- Maximum hook load capacity of 272 mT
- 1540 HP rated power
- 2 x 1 600 HP mud pumps
- Typical drilling depth : 4000 – 4500 m
- Automated pipe handling

Environmentally Friendly

In addition to being manufactured under full API and CE approved, the rigs have been designed to reduce environmental impact:
- Improved safety: smaller crews and remote controlled operations improving safety on the rig floor
- Reduced footprint: half the size of conventional rigs of equivalent hook load
- Reduced visual impact: rig height reduced by 40%
- Low noise level: power generation & hydraulic power unit totally sound-proof, drawworks and brakes noise eliminated

Drilling Performance

- Automatic driller with WOB / ROP controller
- 30 mT pull down capacity
- Skidding system available for factory or batch drilling on clusters
## HH300 Rig Information

### MAST
- **Type:** DRILLMEC hydraulic
- **Height:** max. 31,3 m from ground
- **Max. Hook Load:** 272 metric tons

### SUBSTRUCTURE
- **Type:** Drillmec trailer mounted self raising
- **Capacity:** 272 metric tons
- **Height:** 7,0m underneath rotary beams

### HYDRAULIC POWER UNIT
- **Type:** Drillmec
- **Rated Power:** 1542 HP (1150 kW)

### RIG POWER SYSTEM
- **Engines:** 3 x MTU 12V4000G23
- **Generators:** 3 x LEROY-SOMER 51.2 L70
- **Apparent power:** 3 x 1500 kVA 600 V (50 Hz)
- **PCR Unit:** Drillmec with 600VAC / 400VAC 230VAC / 24VDC

### TOP DRIVE
- **Type:** Drillmec HTD300 w/ torque wrench
- **Capacity:** 272 metric tonnes
- **3 Max. Torques:** 38521 / 25521 / 19013 ft.lbs
- **3 Max. Speeds:** 99 / 149 / 200 rpm

### MUD PUMPS
- **Type (triplex):** 2 x Drillmec 12T 1600 HP
- **Max Pressure:** 345bar (4”1/2) / 206 bar (7”1/2)
- **Max Flow:** 1125 l/m (4”1/2) / 3127l/m (7”1/2)

### MUD TANK SYSTEM
- **Active system:** 153 m3 mud tank
- **Reserve system:** 63 m3 mud /55 m3 water tank
- **Others:** Agitators, mixing skid with two hoopers, MI-Swaco vacuum degaser, MI-Swaco poor boy degaser, trip tank

### SOLID CONTROL SYSTEM
- **Type shakers:** 3 x Swaco dual motion linear

### ADDITIONAL EQUIPMENT
- Vertical racking system including 17 bins (3670 m 5” DP Range 3 or 4624 m 3 1/2” DP Range 3)
- Fully automated pipe handling system
- Casing make-up Device set to handle 20”, 13”3/8 9”5/8, 7” & 4”1/2 casing sizes
- Power Tong to make-up and break-out DP and DC from 3”1/2 to 11” tubular OD
- Automatic slips utilizing conventionnal API DP slips
- Skidding system to move from well to well (clusters) and to go over 1,1m casing head
- Control cabin with automatic driller with WOB / ROP controller
- On site facilities (offices, crew cabins, workshops)
- Surface eqpt (fire fighting, forklifts, welding, HP cleaning etc.)

### BLOW OUT PREVENTION EQUIPMENT
- **Annular BOP:** 13 ¾” - 5000 psi
- **Ram BOP:** 13 ¾” - 5000 psi double
- **Manifold:** 3” - 5000 psi