

HH300 Rig Information



HH 300 at a glance

Last generation Drillemec 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

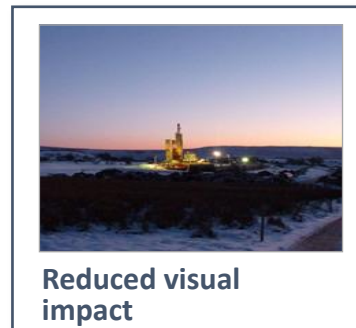
- Automatic driller with WOB / ROP controller
- 30 mT pull down capacity
- Skidding system available for factory or batch drilling on clusters



Improved safety



Reduced footprint



Reduced visual impact



Low noise level

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

BLOW OUT PREVENTION EQUIPMENT

Annular BOP	13 5/8" - 5000 psi
Ram BOP	13 5/8" - 5000 psi double
Manifold	3" - 5000 psi

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
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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 conventional 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.)