



# HH220

## RIG INFORMATION

Arverne Drilling HH220 rig is a hydraulic drilling rig built in 2006, designed and manufactured by Drillmec according to API and complying with European regulations. Demonstrating a high level of reliability, the HH220 has carried out numerous drilling projects, including geothermal project in urban environment.

### MAST

TYPE	DRILLMEC hydraulic
HEIGHT	max.30, 73m from ground
MAX. HOOK LOAD	200 metric tons
MAX. PULL DOWN	20 metric tons

### SUBSTRUCTURE

TYPE	DRILLMEC semitrailer mounted
DRILL FLOOR HEIGHT	7.6 meter
BOP CLEARANCE	5.9 m from ground level

### HYDRAULIC POWER UNIT

TYPE	Drillmec
RATED POWER	1340 HP (1000 kW)

### TOP DRIVE SYSTEM

TYPE	Drillmec HTD220
CAPACITY	250 metric tons
MAX. TORQUE	2870 daN.m
MAX. SPEED	200 rpm

### BLOW OUT PREVENTION EQUIPMENT

ANNULAR BOP	13 5/8" 5000 psi H2S
RAM BOP	13 5/8" 5000 psi H2S double
MANIFOLD	3"- 5000 psi

### MUD PUMPS

TYPE (TRIPLEX)	2 x Drillmec 9T1000 HP
MAX INPUT POWER	345 bar (4") / 181 bar (7")
MAX FLOW RATE	722 l/m (4") / 2213 l/m (7")

### MUD SYSTEM

ACTIVE TANKS	101 m <sup>3</sup>
RESERVE TANKS	174 m <sup>3</sup>
WATER TANKS	20 m <sup>3</sup>

- Agitators, 2 hoopers, 1 vacuum degasser, 1 poor boy degasser, trip tank

### SOLID CONTROL SYSTEM

TYPE SHAKERS	2x VSM300 Brandt Mud Cleaner shaler MiSwaco dual motion linear
TYPE DESANDER	Derrick (3 cones 10")
TYPE DESILTER	Derrick (20 cones 4")

### ADDITIONAL EQUIPMENT

- Vertical racking system including 17 bins (up to 3220m 5" DP or 3580m 3 1/2" DP Range 3)
- Fully automated pipe handling system
- Casing make-up Device set to handle 13" 3/8, 9" 5/8, 7" & 4" 1/2 casing sizes
- Torque wrench to make-up and break-out DP and DC from 2 7/8" to 11" tubular OD 16 000daN.m
- Automatic slips utilizing conventional API DP slips
- Control cabin with automatic driller with WOB / ROP controller
- On site facilities (workshops)
- Surface equipment (fire fighting, welding, HP cleaning etc.)