

# HH-102 (G102- H103- H104 – H105 – H106 – H107 – H108 – H109- H110)



## Plus

- **Reduced environmental impact**
  - Reduction of the working area
  - Minor height of the mast
  - Reduction of the noise
  - System of mud collecting and canalization
- **Enhanced safety in working area**
  - Semi - Automatic sequences in the tubular movement
  - Easier rig-up / rig-down sequence
  - Enhanced control of hydraulic movement
  - Enhanced operator working control

- **Lower cost**
  - Lower cost for moving
  - Staff reduction
  - Better and constant performance during drilling

## Descriptions

<b>Static hook capacity</b>	<b>100 METRIC TONS 220.000 lbs</b>
Hoisting power	750 hp
Max torque	27,000 lb.ft (3233 daN.m)
Top drive rotation(rpm)	200 rpm
Mud pumps power	n° 2 mud pump - 1000 hp
Mud system capacity	130 mc + 57 mc water tank
Generators power	2 - Caterpillar C18 + SR4B

## RIG TECHNICAL SPECIFICATIONS

<b>RIG GENERAL DATA</b>	
HPU Engines	CAT 3412 or C18
System	Diesel/Hydraulic
Hook Load	100 Ton
<b>MAST</b>	
Type	Drillmec HH-102
System	Hydraulic Hoisting
Total height incl. Substructure	28 m
ClearHeight	16,5 m
Hookload Capacity	100 Ton (220000 lbs)
Racking Capacity DP 5"	1800 mt
<b>SUBSTRUCTURE</b>	
Type	Drillmec HH
Height of drill floor	5 m

Height below rotary table	4,7 m
Load Capacity	100 Ton (220000 lbs)
<b>VERTICAL DRILL PIPE BINS</b>	
For 5" OD drill pipe	196
For 3 1/2" OD drill pipe	224
<b>POWER GENERATION</b>	
Engine Type	2- CAT C18
Engine Rating	500 HP each
Gen set rating	550 KVA (380 -220 V) (50 Hz)
<b>TOP DRIVE</b>	
Type	HTD 100
Load Rating	100 ton
Output Torque	3233 Nm a 53 rpm
Max. RPM	200
<b>ROTARY TABLE</b>	
Type	Drillmec
Size:	20 1/2"
Load Capacity	100 ton
RPM and output torque	60 rpm - 1000 kgm
<b>MUD PUMPS</b>	
Type	Drillmec 9T1000
Numbers of	2 (3 optional)
Motor	CAT 3512- 1250 Hp
Max pressure	5000 psi
<b>MUD TANK SYSTEM</b>	
Type	Tanks (trailer)
Mud Capacity	130 mc + 57 mc water
Shale Shaker Type	Mongoose MISWACO
Desander	2 x 12" MI SWACO mud cleaner
Desilter	12 x 2" MI SWACO mud cleaner
<b>POWER TONG</b>	
Type	Drillmec
Tubular OD.	2 3/8" to 8"
Make-up Torque	17658 daNm
Break-out Torque	17659 daNm
<b>BOP SYSTEM</b>	

Diverter Type	N/A
Annular Type	13 5/8" Shaffer - 5M
Double Rams	13 5/8" Cameron Type -5M
Single Rams	N/A
Choke Manifold type	1 – 3 1/8" – 5000 psi 1+1 Manual and hydraulic Choke