

Drillmec 3000HP - Equipment Limits



Crown Block
 2000.000 lbs (907 metric ton)
 1 fastline sheave (1828 mm)
 7 working sheave (1828 mm)
 1 deadline sheave (1066 mm)

Drill Pipe and Depth

Nominal drilling depth 127mm (5" drill pipe) -9100 m

DP Capacity: 286 stands - 5 1/2" DP with 7 1/2" T.J. OD
 Or 336 stands - 5" DP with 6 1/2" T.J. OD
DC Capacity: 3 stands 11" OD DC
 4 stands 10" OD DC
 22 stands 7" OD DC

Drilling line

1 3/4" 44.4 mm, 7 500 ft EIPS 6 x 19 IWRC

Top Drive (750 ton AC)

1. Continuous Torque Rating-51400 ft-lb (69700 Nm) -120 RPM
2. Max Speed Rating-23500 ft-lb (24900 Nm) -265 RPM
3. Brake capacity- 50000 ft (67800 Nm)
4. Make-up Torque-24000 ft-lb (32500 Nm)
5. Break-out Torque-37500 ft-lb (50800 Nm)
6. Maksimum Connection B/O Torque-95000 ft-lb (128800 Nm)

Kelly Hose

5" Fig 1002
 82'
 3 1/2" I.D.
 5,000 psi wp
 10,000 psi test

Derrick

Mast clear height (from drill floor) x base 160' x 30' (48.7m x 9.14m)
 2000.000 lbs (907 metric ton)

Casing stabbing board

Adjustable height from drill floor From 22' to 53'
 Pull capacity of hoisting equipment 1100 lbs (550 kg)

Derrick Structure Loadings

Casing load capacity 2 000 000 lbs (907 metric ton)
 Setback load capacity 1 000 000 lbs (453 metric ton)
 Simultaneous capacity 3 000 000 lbs (1 360 metric ton)
 Height from ground floor 40 ft (12.19 m)
 Clear height under rotary beams 33 ft (10.11 m)

Travelling Assy

2000,000 lbs (907 metric ton)
 Quantity of sheaves - 8
 Diameter of wire rope - 44.4 mm

Drawworks MAS 800 AC

Drum dimension 914 mm x1574 mm
 Lebus drooving 44.4 mm
 12 lines 626 ton
 14 lines 705 ton
 16 lines 777 ton
 Rpm 9 50

Mouse Hole OD 12"

Rotary table

Table opening 37.1/2" (953 mm)
 Gear ratio 3.6
 Static Load capacity 650 ton (590 metric ton - 1,300,000 lbs)
 Out put shaft diameter 125.42 mm (4.15/16")
 Max RPM with 1° speed 270
 Max RPM with 2° speed 160

Mud Pump 14T2200

Design Manufactures as per API SPEC 7K
 Rated input 2200 Hp at 110 SPM
 Stroke 14"
 Max stroke per minute 110 SPM
 Continuous stroke range 40-110 SPM
 Piston diameter range 5" - 9"
 Max delivery 4816 l/min (1272 GPM) with 9" piston at 110 SPM
 Discharge pressure at max delivery 183 bar (2654 psi) with 9" piston
 Max Discharge pressure 517 bar (7500 psi) with 5" piston
 Delivery at max discharge pressure 1486 l/min (392 GPM) with 5" piston at 110 SPM
 Gear ratio 3.639
 Valve pot size 8
 Technical data (90% pump mechanical efficiency - 100% pump volumetric efficiency)

