



BENTEC 450 Drilling Rig



This new, modern land-drilling rig represents environmental and safety solutions as well as technological progress. The rig is designed and manufactured according to API 4F and the latest European regulations including low emissions and is fully ATEX certified. The rig is AC driven and joystick operated.

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BENTEC 450 Drilling Rig

Mast	
Туре:	MVL-1000-143,7-33,5
System:	Vertical lift
Total overall height incl. substructure:	55,1 m (180,8 ft)
Mast clear height:	43,3 m (142 ft)
Mast base:	10,20 x 5,65 m (33,50 x 18,54 ft)
Hookload capacity at 10 lines:	450 mt (1.000.000 lbs)
Racking capacity:	cca 7.200 m (23.600 ft)

Substructure	
Туре:	SSB-1000-575-29,5
System:	Box-on-Box
Height of drill floor:	9 m (29,5 ft)
Height underneath rotary table:	7,4 m (24,3 ft)
Casing load:	450 mt (1.000.000 lbs)
Setback load max.:	260 mt (573.000 lbs)

Drawworks	
Make and Type:	Bentec E-2000-AC-1-3/8
Drive capacity:	1.470 kW (2.000 HP)
Drill line diameter:	35 mm (1 3/8")
Max. line pull, 1st gear:	420 kN (42,9 mt)

Power Generation	
Make and Type:	Four (4 x) x Cummins KTA50
Engine rating:	1.305 bkW @ 1.500 1/min
Generator type:	Four (4 x) AvK-DSG
Emergency generator engine:	One (1 x) CAT C-15
VFD container:	Bentec

Top Drive	
Make and Type:	Bentec TD-500-HT
Load rating:	454 mt (1.000.000 lbs)
Output Torque (continuous):	63 kNm (46.500 ft lb)
Tool Torque (intermittent and stall):	100 kNm (73.760 ft lb)

Rotary Table	
Type:	Kerui RDF-375-850
Rotary Table Drive:	850 kW AC

Mud Pumps	
Make and Type:	Bentec T-1600-AC-7 1/2"x12"
Number of:	Three (3 x)
Electric Motors:	1.200 kW AC (1.600HP)
Max pressure:	345 bar (5.000 psi)

Mud Tank System	
Type:	Rectangular tanks
Active mud volume:	220 m³ (incl. mix compartments)
Reserve mud tank:	140 m³

Solids Removal System	
Shale shaker type:	Three (3 x) Mongoose PT
Desander:	3 x 10" cones
Desilter:	20 x 4" cones
Drilling Mud Degasser:	Bentec Vacuum Degasser DMD-250-H
Mud Gas Separator:	Poor boy style 48", freestanding

Iron Roughneck	
Make and Type:	NOV Roughneck ST-120
Make-up Torque:	135,6 kNm (100.000 ft-lb)
Break-out Torque:	162,7 kNm (120.000 ft-lb)

Additional Features	
Mast:	Vertical errection (Bootstrap system)
	for small locations
Drawworks:	4-Quadrant system with Disc Brake,
	Eddy Current Brake
Colour Camera System:	At Racking Board, Shale Shakers,
	Mud Pumps, Drawworks
Safety Systems:	InfoDrill, Information System,
	AntiCollision System, Soft Torque
	System, FeedOff Control, etc.
Another options:	Skidding system for rig move with
	full setback for up to 22 m
	Transformer Unit 2 x 2,5 MW
	for rig connection to public grid

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