

BENTEC 350 AC 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.

BENTEC 350 AC Drilling Rig

Mast

Type:	MVL-770-143-25
System:	Vertical lift
Total overall height incl. substructure:	55 m (180,4 ft)
Mast clear height:	43,3 m (142 ft)
Mast base:	8,7 m x 5,65 m (28,5 x 18,5 ft)
Hookload capacity at 10 lines:	350 mt (772.000 lbs)
Racking capacity:	cca 6.000 m (19.700 ft)

Substructure

Type:	SB-770-450-30
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:	350 mt (772.000 lbs)
Setback load max.:	204 mt (450.000 lbs)

Drawworks

Make and Type:	Bentec E-1500-AC
Drive capacity:	1.150 kW (1.500 HP)
Drill line diameter:	35 mm (1 3/8")
Max. line pull, 1st gear:	389 kN (39 mt)

Power Generation

Make and Type:	Three (3 x) x CAT 3512B
Engine rating:	1.310 bkW @ 1.500 1/min
Generator type:	Three (3 x) CAT SR4B
Emergency generator engine:	One (1 x) CAT C-15
VFD container:	Bentec

Top Drive

Make and Type:	NOV TDS-11SA
Load rating:	454 mt (1.000.000 lbs)
Output Torque (continuous):	50 kNm (37.500 ft lb)
Tool Torque (intermittent and stall):	75 kNm (55.000 ft lb)

Rotary Table

Make and Type:	Mud King ZP-375-53
Rotary Table Drive:	850 kW AC

Mud Pumps

Make and Type:	EWECO E-1600
Number of:	Three (3 x)
Electric Motors:	1.200 kW AC (1.600 HP)
Max pressure:	345 bar (5.000 psi)

Mud Tank System

Type:	Rectangular tanks
Active mud volume:	205 m ³ (incl. mix compartments)
Reserve mud tank:	70 m ³

Solids Removal System

Shale shaker type:	Three (3 x) Mongoose Pro
Desander:	3 x 10" cones
Desilter:	20 x 4" cones
Drilling Mud Degasser:	MI Swaco CD-1400
Mud Gas Separator:	Poor boy style 48", built into Desander compartment

Iron Roughneck

Make and Type:	NOV Roughneck ST-80
Make-up Torque:	81 kNm (60.000 ft lb)
Break-out Torque:	108 kNm (80.000 ft lb)

Additional Features

Mast:	Vertical erection (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
Safety Systems:	AntiCollision System, Gas Detection System
Another Features:	InfoDrill Information System, Soft Torque System, FeedOff Control, etc.
Another options:	Skidding system for rig move with full setback for up to 48 m Transformer Unit 2 x 2,5 MW for rig connection to public grid