

DESERT RIGS

Stationary desert rigs.
Versatile design for different applications.

STATIONARY DESERT RIG GENERAL FEATURES

- Climate: Desert -20°C to +55°C
- Drawworks capacities: 1,500 hp–3,000 hp
- Hook load capacities: 770,000 lbs–1,433,000 lbs / 350 t–650 t
- Drilling depth capacities: Up to 30,000 ft / up to 9,144 m
- API, DIN EN certified
- HAZOP risk assessment
- CE equipment
- Testing & commissioning



STATIONARY DESERT RIG 2,000 hp

Rating: 2,000 hp / 450 t
Static hook load: 1,000,000 lbs @ 12 lines / 450 t
Drilling depth: 20,000 ft / 6,096 m

UNIQUE FEATURES

- Cantilever mast
- Swing up substructure
- Designed for UBD and cluster bay drilling operations
- Special HSE features incorporated into design
- Bentec drillers' infoDRILL™ system
- Automatic driller
- Less NPT with Bentec TOP DRIVE
- Field approved equipment

TECHNICAL DATA

DESERT RIGS – STATIONARY DESERT RIG 2,000 hp

Bentec STATIONARY RIG is a new generation of desert rigs. The rig provides superior drilling performance under extreme weather conditions and a safe, high quality working environment. Components that require a certain level of maintenance are easily accessible and well illuminated.

The design features a 2,000 hp drawworks, a 1,000,000 lbs static hook load mast, the Bentec Power Control Room, and the trailerized rig power supply unit, controlled by four generator sets at a capacity of 1,476 hp each and combined with a Bentec Power Control Room.

The equipment fitted to the rig is suitable for performance drilling. The Bentec TOP DRIVE is specially designed for rough conditions and less rig down time.

API and “Western” international design standards are uniformly applied. It includes HSE features like an iron roughneck, a dedicated man-rider winch, and an anti-collision system.

Due to the modular design, this rig type can be tailored to customers’ requirements.

TECHNICAL DATA

MAST

Manufacturer:	Bentec
System:	Open-faced self-elevating mast, free standing, erected with drawworks & raising line
Mast free height:	152.00 ft (46.33 m)
Mast base:	30.00 ft (9.10 m)
Hook load capacity @ 10 lines:	1,000,000 lbs (454 t)
Racking capacity:	Approx. 20,000 ft (6,096 m)

SUBSTRUCTURE

Manufacturer:	Bentec
System:	Swing-up substructure, erected with drawworks & raising line
Height of drill floor:	35.00 ft (10.67 m)
Height underneath rotary table:	30.00 ft (9.10 m) free height below rotary table
Rotary capacity max.:	1,000,000 lbs (454 t)
Setback load max.:	600,000 lbs (272 t)

DRAWWORKS

Manufacturer:	Bentec
Type:	DW-E-2000 AC
Power rating:	2,000 hp (1,470 kW)
Drilling line diameter:	1 1/2”(38 mm)
Max. line pull:	105,160 lbs (47.7 t)

IRON ROUGHNECK

Manufacturer:	Original Equipment Manufacturer Controls by Bentec
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TOP DRIVE

Manufacturer:	Bentec
Type:	TD-500-HT
Load capacity:	500 ton / 454 t
Electric motor:	1,030 hp (758 kW)
Output torque:	46,500 ft-lbs (63,000 Nm)

POWER GENERATION

Manufacturer:	Bentec
Engine type:	4 x CAT 3512 B (or equivalent)
Generator type:	4 x CAT SR4 (or equivalent)
Emergency generator engine:	1 x CAT 3456 (or equivalent)

POWER CONTROL ROOM

Manufacturer:	Bentec
Type:	Variable frequency drive 600 V, 50 Hz

MUD PUMPS

Manufacturer:	Bentec
Type:	3 x MP-T-1600-AC
Electric motor:	1,600 hp (1,200 kW) AC
Max. pressure:	5,000 PSI (350 bar) 7,500 PSI (500 bar) on request

MUD TANK SYSTEM

Manufacturer:	Bentec
Type:	Rectangular tanks
Active mud volume:	As per customer specification
Reserve mud volume:	As per customer specification

SOLIDS REMOVAL SYSTEM

Manufacturer:	Original Equipment Manufacturer
Shale shaker:	1 x triple unit
Desander:	3 x 12” cones
Desilter:	16 x 4” cones
Drilling mud degasser:	Bentec type DMD 1-250
Mud gas separator:	Bentec 48” vertical type MGS V 48