

APPROVED AROUND THE WORLD

BENTEC RIGS





BENTEC

Advanced technology for drilling operations.

With years of experience, Bentec is one of the world's leading manufacturers of high-quality drilling and workover rigs and drilling rig components. Bentec produces a full range of land rigs and supplies packages that operate successfully in all of the world's major oil fields.

Bentec designs and manufactures a wide range of durable, cost-effective and trouble-free drilling rigs for harsh and hostile environments ranging from light units to heavy-duty ones with drawwork capacities of up to 3000 hp.

We deliver high-grade mechanical drilling components like Top Drives, Drawworks, Drive Systems, Mud Pumps and Mud Treatment Equipment. Our electrical equipment includes Power Control Rooms, infoDRILL, Anti Collision Systems, Soft Torque Rotary Systems, and Soft Pump Systems.

Bentec rig equipment is field-approved and suitable for high performance drilling.

With regards to customer-specific and local certification requirements, our rigs can be certified according to API, DIN EN, GOST and other standards. For operations in Europe, CE and ATEX are standard certifications. HAZOP risk assessment and SIL studies will be performed where needed.

Bentec is a specialist in designing and manufacturing customized solutions tailored to your individual requirements. Our engineers continue to develop innovative drilling rig systems that can withstand any environmental challenge.



BEN TEC SOLUTIONS “MADE IN GERMANY”

- Design and manufacture of drilling rigs for worldwide use
- Manufacture of mechanical and electrical main equipment and systems
- Service, repair and overhaul
- Spare parts supply and logistics
- Upgrades
- Recertification
- System integration and commissioning
- Global project management



BEN TEC RIG FAMILIES

EURO RIGS

EURO RIG 200 t
EURO RIG 250 t
EURO RIG 350 t
EURO RIG 450 t

STANDARD EURO RIG 350 t
STANDARD EURO RIG 450 t

DESERT RIGS

SPEED RIG 1000 hp
SPEED RIG 1500 hp
SPEED RIG 2000 hp

STATIONARY DESERT RIG 1500 hp
STATIONARY DESERT RIG 2000 hp
STATIONARY DESERT RIG 3000 hp

ARCTIC RIGS

CLUSTER SLIDER HR 4000
CLUSTER SLIDER HR 5000
CLUSTER SLIDER HR 6000

STATIONARY ARCTIC RIG SR 4000
STATIONARY ARCTIC RIG SR 5000
STATIONARY ARCTIC RIG SR 6000

SPECIAL RIGS

DESERT LIGHT RIG 200 t

EUROMATIC RIG 480 t

PAD DRILLING RIG 450 t
PAD DRILLING RIG 650 t

MODULAR OFFSHORE RIG 500 t

EURO RIGS

Skiddable or stationary land rigs for small
and sensitive locations.



EURO RIGS are among the most modern European land drilling rigs. These modular rigs are designed to meet the special requirements of the European market.

The EURO RIG has CE equipment, HAZOP risk assessment, is API or DIN EN and ATEX-certified and built in compliance with the latest European regulations.

The box-on-box substructure enables efficient rig moves on European roads with standard trucks. The small footprint of 40 x 55 meters reduces pad construction costs significantly.

The modular substructure consists of four sub-boxes and three drill floor parts.

These boxes are used to house noise emitting components, such as the centralized hydraulic power unit. The integration of drilling equipment in substructure boxes and on drill floor parts significantly reduces the rig move times, since the equipment remains installed and internally connected during road transport.

The vertical lift mast consists of three units with an A-frame. The dimensions of the main mast parts are reduced to European road transport limits. Integrated hydraulic cylinder lift the vertical mast. There are no exceptional road permits required, except for the drawworks and mud pumps.

The containerized substructure, vertical lift mast, modularized mud tank system and optimized transport units make it possible to move the EURO RIG within five days with approx. 55 truckloads only over a distance of 80 km.

The skiddable EURO RIGS are engineered with a fast-move philosophy. The rig can optionally be manufactured with skidding system or a walking system.

SKIDDABLE EURO RIGS

Climate: Temperate -20 °C to +40 °C

Drawworks capacities: 1000 hp–2000 hp

Hook load capacities: 440000 lbs–1000000 lbs (200 t–450 t)

Drilling depth capacities: Up to 19700 ft (6000 m)

- Skiddable
- Vertical erected mast, raised with hydraulic cylinder
- Substructure: Box-on-box type
- Freestanding mast
- Small footprint
- Noise reduced equipment and rig components made by Bentec
- According to European regulations and road conditions
- Rig moves on European roads with standard trucks
- Less NPT with Bentec TOP DRIVE
- Field approved equipment

- API or DIN EN, ATEX certified
- HAZOP risk assessment
- CE equipment

EURO RIG 200 t

Rating:	1000 hp / 200 t
Static hook load:	440000 lbs @ 10 lines / 200 t
Design drilling depth:	9850 ft / 3000 m

EURO RIG 250 t

Rating:	1250 hp / 250 t
Static hook load:	550000 lbs @ 10 lines / 250 t
Design drilling depth:	13100 ft / 4000 m

EURO RIG 350 t

Rating:	1500 hp / 350 t
Static hook load:	770000 lbs @ 10 lines / 350 t
Design drilling depth:	19700 ft / 6000 m

EURO RIG 450 t

Rating:	2000 hp / 450 t
Static hook load:	1000000 lbs @ 12 lines / 450 t
Design drilling depth:	23600 ft / 7200 m

STATIONARY STANDARD EURO RIGS

Climate: Temperate -20 °C to +45 °C

Drawworks capacities: 1500 hp–2000 hp

Hookload capacities: 550000 lbs–1000,000 lbs / 350 t–450 t

Drilling depth capacities: Up to 19700 ft / 6000 m

- Stationary
- Standard substructure
- Standard mast
- Horizontal mast erection
- Horizontal assembly
- Less NPT with Bentec TOP DRIVE
- Field approved equipment
- Stationary Standard Euro Rig 200 t and 250 t also available on request

- API or DIN EN, ATEX certified
- HAZOP risk assessment
- CE equipment

EURO STANDARD RIG 350 t

Rating:	1500 hp / 350 t
Static hook load:	770000 lbs @ 10 lines / 350 t
Design drilling depth:	19700 ft / 6000 m

EURO STANDARD RIG 450 t

Rating:	2000 hp / 450 t
Static hook load:	1000000 lbs @ 12 lines / 450 t
Design drilling depth:	23600 ft / 7200 m



DESERT RIGS

Equipped with fast-moving transport system
or as stationary desert rigs.



Bentec DESERT RIGS are a new generation of 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 Bentec SPEED RIG is a highly efficient, light and fast moving desert land rig, delivering maximum safety and performance in a compact and highly mobile drilling package.

With many innovative features and advantages, the SPEED RIGS achieve extraordinary gains in drilling efficiency.

The small size and self-deploying design of the SPEED RIGS allow for ease of transport and fast onsite rig-up. Every aspect of rig operation from mobility and deployment to machine and structural design has benefited from a wide array of improvements that maximize safety while minimizing the time for rig-up/down and transport.

An integrated hydraulic system is connected to raise the mast and the substructure. Every part of a SPEED RIG is portable on trailers. A complete SPEED RIG is moveable on only 28 trailers.

Optional: The substructure can be delivered with a wheel set to be transported as one unit on flat terrain. The mast including the traveling equipment can be transported as one unit with optional mast dolly. The compact components and AC-powered drive systems further reduce the environmental impact at the well site.

SKIDDABLE SPEED RIGS

Climate: Desert -20 °C to +55 °C

Drawworks capacities: 1000 hp–2000 hp

Hook load capacities: 440000 lbs–1000000 lbs / 200 t–450 t

Drilling depth capacities: Up to 20000 ft / 6096 m

- Skiddable
- Cantilever mast parallel lift substructure
- 36-hour rig move times with mast erection over flat terrain up to 10 km
- Option to raise drawworks to permit rig skidding and pad drilling operations
- Mast and substructure raised by hydraulic cylinders
- Bentec automatic driller's control system complete with joystick
- Drawworks control
- Less NPT with Bentec TOP DRIVE
- Field-approved equipment

- API or DIN EN certified
- HAZOP risk assessment
- CE equipment

SPEED RIG 1000 hp

Rating:	1000 hp / 200 t
Static hook load:	440000 lbs @ 10 lines / 200 t
Design drilling depth:	9850 ft / 3000 m

SPEED RIG 1500 hp

Rating:	1500 hp / 350 t
Static hook load:	770000 lbs @ 10 lines / 350 t
Design drilling depth:	18000 ft / 5500 m

SPEED RIG 2000 hp

Rating:	2000 hp / 450 t
Static hook load:	1000000 lbs @ 12 lines / 450 t
Design drilling depth:	19700 ft / 6000 m

STATIONARY DESERT RIGS

Climate: Desert -20°C to +55°C

Drawworks capacities: 1500 hp–3000 hp

Hook load capacities: 770000 lbs–1500000 lbs / 350 t–650 t

Drilling depth capacities: Up to 30000 ft / 9144 m

- Stationary
- Versatile design for different applications
- 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

- API or DIN EN certified
- HAZOP risk assessment
- CE equipment

STATIONARY DESERT RIG 1500 hp

Rating:	1500 hp / 350 t
Static hook load:	770000 lbs @ 10 lines / 350 t
Design drilling depth:	18000 ft / 5500 m

STATIONARY DESERT RIG 2000 hp

Rating:	2000 hp / 450 t
Static hook load:	1000000 lbs @ 12 lines / 450 t
Design drilling depth:	20000 ft / 6096 m

STATIONARY DESERT RIG 3000 hp

Rating:	3000 hp / 650 t
Static hook load:	1500000 lbs @ 14 lines / 650 t
Design drilling depth:	30000 ft / 9144 m



ARCTIC RIGS

Skiddable or stationary arctic rigs with superior and safe drilling performance withstanding extreme environmental conditions.



The modular Bentec ARCTIC RIGS are built for operating in harsh, deep temperature environments.

The skiddable CLUSTER SLIDER is designed to operate on cluster and single well locations, drilling directional wells. The rig and all drilling-related subsystems are installed on a skidding track to allow skidding with a full setback and tanks. The footprint allows for smaller locations.

As an alternative concept the rig can be manufactured with double train units for smaller locations (drilling support module and drilling rig as single units) or with single train units (both units on one skidding track).

The modular box-on-box substructure consists of four sub-boxes and three drill floor parts with integrated drilling equipment. The substructure is fully enclosed and has a free height of 23 feet to accommodate well control equipment.

The vertical lift mast consists of four units with an A-frame; the vertical mast is lifted by a hydraulic cylinder. Optionally, it can be fully cladded from the substructure up to the monkey board.

All required areas have been fully winterized and the system includes an intelligent, efficient heating & cooling system. The Bentec HEAT RECOVERY SYSTEM is available as an option to minimize fuel consumption and emissions to the atmosphere.

The rig is powered by a self-generating system and works in conjunction with a frequency converter. The power pack can be attached to the skid together with the drilling support module and/or solid control system parallel with the rig. There is an optional package for supplying power from the main power overhead network.

The rigs are built in compliance with the rules and regulations of the Russian mining authorities. Bentec ARCTIC RIGS are GOST certified and can be operated following initial commissioning without delays for additional licensing.

SKIDDABLE CLUSTER SLIDER

Climate: Arctic -45°C to +40°C

Drawworks capacities: 1250 hp–2000 hp

Hook load capacities: 550000 lbs–1000000 lbs / 250 t–450 t

Drilling depth capacities: Up to 19700 ft / 6000 m

- Skiddable
 - Vertically erected mast with hydraulic cylinder for raising
 - Modular box-on-box substructure
 - Small footprint
 - Compact rig module
 - Operation on cluster and single well locations
 - Dimensioned for simple rig transport over long distances
 - Also available with double train units or single train unit
 - Full winterization package (driller's cabin, drill floor, setback area, drilling support modules)
 - Less NPT with Bentec TOP DRIVE
 - Field-approved equipment
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- GOST certified
 - HAZOP risk assessment
 - CE equipment

CLUSTER SLIDER HR 4000

Rating:	1250 hp / 250 t
Static hook load:	550000 lbs @ 10 lines / 250 t
Design drilling depth:	13120 ft / 4000 m

CLUSTER SLIDER HR 5000

Rating:	1500 hp / 350 t
Static hook load:	770000 lbs @ 12 lines / 350 t
Design drilling depth:	16400 ft / 5000 m

CLUSTER SLIDER HR 6000

Rating:	2000 hp / 450 t
Static hook load:	1000000 lbs @ 12 lines / 450 t
Design drilling depth:	19700 ft / 6000 m

STATIONARY ARCTIC RIGS

Climate: Arctic -45°C to +40°C

Drawworks capacities: 1250 hp–2000 hp

Hook load capacities: 550000 lbs–1000000 lbs / 250 t–450 t

Drilling depth capacities: Up to 19700 ft / 6000 m

- Stationary or skiddable
 - Swing-up substructure with cantilever mast
 - Alternatively vertically erected mast with hydraulic cylinder for raising
 - Winterization package
 - Less NPT with Bentec TOP DRIVE
 - Field-approved equipment
-
- GOST certified
 - HAZOP risk assessment
 - CE equipment

STATIONARY ARCTIC RIG SR 4000

Rating:	1250 hp / 250 t
Static hook load:	550000 lbs @ 10 lines / 250 t
Design drilling depth:	13120 ft / 4000 m

STATIONARY ARCTIC RIG SR 5000

Rating:	1500 hp / 350 t
Static hook load:	770000 lbs @ 12 lines / 350 t
Design drilling depth:	16400 ft / 5000 m

STATIONARY ARCTIC RIG SR 6000

Rating:	2000 hp / 450 t
Static hook load:	1000000 lbs @ 12 lines / 450 t
Design drilling depth:	19700 ft / 6000 m



SPECIAL RIGS

Bentec is a specialist in designing and manufacturing customized solutions tailored to your individual requirements. Our engineers continue to develop innovative drilling rig systems that can withstand any environmental challenge.

EUROMATIC RIG

Highly semi-automated land rig designed for small and sensitive locations to handle the most challenging drilling operations.

- Box-on-box type substructure
- Freestanding mast
- Segmented mast sections, erected by crane
- Innovative mechanized pipe handling
- Entirely remote operation from drillers' cabin
- Hands-off philosophy
- Noise-reduced equipment and rig components made by Bentec
- Mechanical and electrical components fully integrated by Bentec
- Air-operated mud treatment system
- Less NPT with Bentec TOP DRIVE
- Field-approved equipment

- DIN EN, CE, SIL, ATEX certified equipment
- HAZOP risk assessment
- CE equipment

EUROMATIC RIG 480 t

Climate:	Temperate -20 °C to +40 °C
Drawworks capacities:	Up to 2000 hp
Hook load capacity:	Up to 1060000 lbs / 480 t
Drilling depth capacities:	Up to 24250 ft / 7400 m
Pipe handling capacities:	Diameters of 2 7/8" to 20"



MODULAR OFFSHORE RIG

Rating: 2500 hp / 500 t

Static hook load: 1100000 lbs @ 14 lines / 500 t

Design drilling depth: 30000 ft / 9144 m

- Modular concept according customer requirements
- Complies with strict environmental regulations
- Module dimensions and weights specific for offshore installation
- Drilling support module as a multiple lift design
- Mud plant and mud pump house installed on the seawall
- Floor base of 900 m²
- Field-approved equipment



MOVABLE DESERT LIGHT RIG

Rating: 1000 hp / 200 t

Static hook load: 440000 lbs @ 10 lines / 200 t

Design drilling depth: 9850 ft / 3000 m

- Light desert rig, fast moving with high mobility
 - Faster rig with telescoping mast & substructure
 - Reduction of rig preparation- and moving time
 - Optimized tripping and casing running times
 - Small footprints with appropriate level of mechanization and automation
 - No setback - capable of running double drillpipe range II appr. 19 m (62 ft)
 - Only three transport units for Mast & Substructure Package
 - Fast rig move within 9 hours can be achieved within a distance of 10 km
 - Less NPT with Bentec TOP DRIVE
 - Field-approved equipment
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- API or DIN EN certified
 - HAZOP risk assessment
 - CE equipment



PAD DRILLING RIGS

Climate: Desert -45°C to +55°C

Drawworks capacities: 1000 hp–3000 hp

Hook load capacities: 440000 lbs–1500000 lbs / 200 t–650 t

Drilling depth capacities: Up to 30000 ft / 9144 m

- Drilling rig with walking system
- Rig design according customer requirements, environmental conditions and specific locations
- Fixed mud plant with power station
- Umbilical system according to customer requirements
- Less NPT with Bentec TOP DRIVE
- Field-approved equipment



