



Drilling Equipment

Engineered to Improve the Way You Drill.

Built to Perform. Ready to Integrate.



OEM equipment for new rigs, existing assets and everything in between.

From a single equipment upgrade to a complete new-build rig, BENTEC drilling equipment is engineered to improve performance, reliability and efficiency across drilling operations. Our mechanical and electrical equipment can be integrated into new or existing assets, giving drilling contractors the flexibility to replace, upgrade or modernize critical systems without replacing the entire rig.

Built on decades of OEM engineering experience, every BENTEC product is designed for demanding drilling environments, long-term serviceability and the evolving requirements of modern drilling operations.

Every rig is different. Every operation has different priorities.

Whether you're replacing aging equipment, improving rig performance, increasing automation or engineering a new drilling asset, BENTEC provides equipment that can be configured around your operational requirements.

As an OEM, we understand not only the equipment itself, but how it interfaces with the wider rig. That engineering expertise enables us to support integration into both BENTEC and third-party assets while helping customers improve performance and extend the operational life of existing rigs.

✓ OEM expertise

Drilling equipment designed and manufactured by specialists who understand the complete rig environment

✓ Flexible integration

Equipment engineered for integration into new-build, existing and third-party drilling assets

✓ Performance upgrades

Modernize critical rig systems to improve reliability, efficiency, safety and drilling performance

✓ Lifecycle support

OEM service, spare parts, repair, overhaul, upgrades, training and support throughout the entire equipment lifecycle

BENTEC

Bold Engineering + Technology

sales@bentec.com bentec.com

Performance That Evolves With Your Rig.

From individual equipment upgrades to complete rig modernization.

A drilling asset doesn't need to stand still as technology advances. BENTEC supports customers throughout the equipment lifecycle, helping maintain performance today while providing a pathway to future upgrades, automation and electrification.

↓ Equipment selection

↓ Engineering

↓ Integration

↓ Manufacturing

↓ Installation

↓ Commissioning

↓ Training

↓ Service & maintenance

↓ Spare parts

↓ Repair & overhaul

Modernization & upgrades

Equipment for Every Critical Drilling Operation.

From individual equipment replacements to multi-system rig upgrades, our mechanical and electrical portfolio gives customers the flexibility to select the technologies their operation needs today and evolve their assets over time.

Mechanical Drilling Equipment

Performance engineered into every operation.

Top Drives

Iron Roughnecks

Catwalks

Drawworks

Mud Pumps

Top Drive Service Loops

Cable Chains

Offline Stand Builders

Electrical & Power Systems

Reliable power. Flexible integration.

Power Control Rooms

Top Drive Control Rooms

benCON™

Grid Containers

Grid Converters

Battery Energy Storage System (BESS)

airCOOL

Ancillary Equipment

Critical support where it matters.

Slip Lifters

Traveling Blocks

BOP Closing Unit

Mechanized Derrickman System

Deadline Anchor

Pipe guide arm



Top Drives

High Torque.
Maximum Uptime.
Superior Drilling
Performance.

Product range

TD-200-HT

TD-250-C

TD-275-HT

TD-350-HT

TD-500-HT

TD-750-HT

TD-850-HT

**Drill faster. Drill further.
With confidence.**

BENTEC Top Drives are engineered to deliver exceptional continuous torque and industry-leading reliability, enabling drilling contractors and operators to execute complex wells faster, safer, and at lower total cost.

Applications



Oil & gas



Geothermal



Lithium
extraction



Global onshore
& offshore
drilling
operations

38%
lower NPT than
industry average.

- Up to 30% higher continuous torque
- Intelligent predictive maintenance & monitoring
- Lower maintenance and overhaul costs

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More than 30% of rig downtime is still linked to top drive failure

Modern wells demand:

- Greater depth and longer laterals
- Higher torque capacity
- Consistent, interruption-free performance

Unreliable equipment leads to:

- Costly downtime
- Delayed well delivery
- Reduced drilling efficiency

- ✓ No top drive-related downtime
- ✓ Consistent high drilling performance
- ✓ Lower maintenance and overhaul costs
- ✓ Reliable delivery of wells on schedule

Why BENTEC?

More drilling performance. Higher uptime.

A high-performance top drive system combining robust mechanical design, advanced automation, and integrated digital optimization tools to maximize uptime and drilling efficiency.

Unlike conventional systems, BENTEC Top Drives combine:

- High torque AC motor technology
- Fully integrated performance optimization tools
- Advanced equipment integrity and monitoring systems

All core components are manufactured in-house, ensuring full quality control, continuous improvement, and customization flexibility, and conforms to the latest API and European CE design standards.

Designed to deliver

- ✓ **Up to 30% higher continuous torque**
Supports deeper wells and longer laterals with consistent performance
- ✓ **Maximum uptime & reliability**
Proven design with reduced maintenance and extended service intervals
- ✓ **Enhanced drilling performance**
With BENTEC's in-house digital tools like, optiTORQUE™ and optiSLIDE™ to improve ROP and directional efficiency
- ✓ **Predictive maintenance & monitoring**
Real-time operational and equipment health related insights with BENTEC's rigCARE™ platform
- ✓ **Reduced operating costs**
Lower maintenance, spare parts, and overhaul requirements
- ✓ **Improved handling stability**
Higher link tilt capacity for safer, more efficient operations
- ✓ **Flexible drive system**
VFD-controlled for optimized torque and speed, with optional integrated systems and software

Proven performance

- ✓ **Field-proven performance by 38% lower NPT than comparable units**
- ✓ **45% higher drilling uptime by extended meantime between failures**
- ✓ **Global deployment across demanding environments from the Arctic to the Desert and urban environments**
- ✓ **Long-term customer partnerships since spanning 30+ years**



Top Drives



Small Footprint. Big Performance.

With compact dimensions, BENTEC Top Drives enable fast, safe installation on both new builds and existing rigs, allowing integration across a wide range of mast and derrick configurations.

BENTEC Top Drives integrate a swivel, high-safety link tilt and monitoring system, remote and manual IBOP valves, backup clamp, and guide beam to manage torque reaction, along with in-house service loops.

An onboard hydraulic power unit eliminates the need for external service loops, simplifying the overall system design.

Integrated rail design

Guide rails are fully integrated into the mast structure, eliminating additional lifts and transport requirements during rig moves.

Portable design

Suspended rail system within the mast, combined with a lower mast torque reaction beam, enabling maximum flexibility across multiple rigs.

Herringbone design

Top Drive carriage guided within the mast front legs, reducing lifts and minimizing loads during rig moves.

Offshore portable design

Proven land-based configuration adapted for offshore derricks, optimized for reduced investment and efficient deployment.

Portable rotated design (dual rail)

Preferred solution for enabling Top Drive operations on legacy mast designs with minimal modification.

Portable rotated design (mono rail)

Optimized for narrow or existing mast designs, enabling Top Drive integration without structural modification.

Top Drives



TD-200-HT

450 hp single motor

220 ton API-8C

23,600 ft-lbs cont. torque
@ 100 rpm

35,400 ft-lbs make &
break torque

Temperature range
-45°C / +55°C

Lowest noise emissions

Available drilling enhancement
software: Soft Torque
Systems; Remote Access



TD-250-C

672 hp single motor

250 ton API-8C

35,200 ft-lbs cont. torque
@ 100 rpm

44,254 ft-lbs make &
break torque

Temperature range
-45°C / +55°C

Lowest noise emissions

Available drilling enhancement
software: Soft Torque
Systems; Remote Access



TD-275-HT

672 hp single motor

275 ton API-8C

35,200 ft-lbs cont. torque
@ 100 rpm

51,500 ft-lbs make &
break torque

Temperature range
-45°C / +55°C

Lowest noise emissions

Available drilling enhancement
software: Soft Torque
Systems; Remote Access



TD-350-HT

1,040 hp single motor

350 ton API-8C

46,500 ft-lbs cont. torque
@ 115 rpm

73,760 ft-lbs make &
break torque

Temperature range
-45°C / +55°C

Integrated link-tilt monitoring

Lowest noise emissions

Available drilling enhancement
software: Soft Torque
Systems; Remote Access



TD-500-XT

1,140 hp single motor

500 ton API-8C

52,000 ft-lbs cont. torque
@ 115 rpm

73,760 ft-lbs make &
break torque

Temperature range
-45°C / +55°C

Lowest noise emissions

Available drilling enhancement
software: Soft Torque
Systems; Remote Access



TD-750-HT

1,609 hp single motor

750 ton API-8C

73,760 ft-lbs cont. torque
@ 115 rpm

118,000 ft-lbs make &
break torque

Temperature range
-45°C / +55°C

Lowest noise emissions

Available drilling enhancement
software: Soft Torque
Systems; Remote Access



TD-850-HT

1,609 hp single motor

850 ton API-8C

73,760 ft-lbs cont. torque
@ 115 rpm

118,000 ft-lbs make &
break torque

Temperature range
-45°C / +55°C

Lowest noise emissions

Available drilling enhancement
software: Soft Torque
Systems; Remote Access



Top Drive

TD-200-HT

Key features

- 450 hp single motor
- 220 ton API-8C
- 23,600 ft-lbs cont. torque @ 100 rpm
- 35,400 ft-lbs make & break torque
- Temperature range -45°C / +55°C
- Lowest noise emissions
- Available drilling enhancement software: Soft Torque Systems; Remote Access

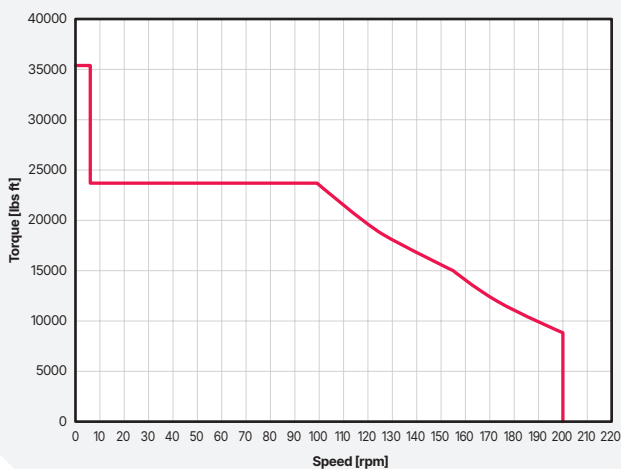
Benefits

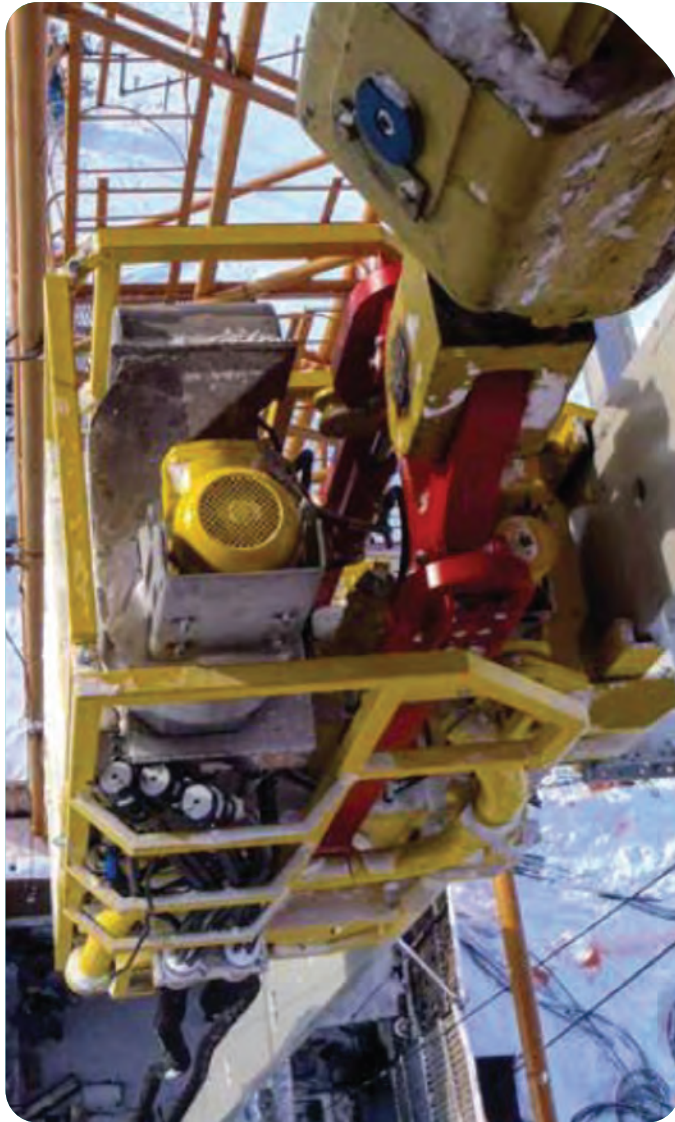
- ✓ **Flexible design.** The TD-200-HT can be used as portable or fixed installation
- ✓ **Various carriage solutions available** to meet any mast configuration
- ✓ **Fully retrofittable** into existing rigs

Specifications

Hoisting and rotating	220 ton	200 t
Drilling motor	AC-induction motor	
Motor rating	450 hp	336 kW
Working height	203 in	5,160 mm
Weight	21,164 lbs	9.6 t
Gear	Helical gear; 15:1	
Max. continuous torque	23,600 ft-lbs	32,600 Nm
Speed at max. cont. torque	100 rpm	
Max. speed	200 rpm	
Max. make & break out torque	35,400 ft-lbs	48,000 Nm
Static brake torque	25,800 ft-lb	35,000 Nm
Mainshaft quill ID	2-1/2 in	
Working pressure	7,500 psi	517 bar
Min. connection range	2-1/2 in	
Max. connection range	7-1/2 in	
IBOP connection	NC 50	API
Cooling system	Local blower	
Hydraulic power	Onboard HPU	
Suitable elevator links	Standard links	
Min. temperature	-49°F	-45°C
Max. temperature	+131°F	+55°C
Footprint (width x depth)	54.72 in x 55.69 in	1,390 mm x 1,440 mm

Performance curve TD-200-HT @ 55°C ambient





Top Drive

TD-250-C

Key features

- 672 hp single motor
- 250 ton API-8C
- 35,200 ft-lbs cont. torque @ 100 rpm
- 44,254 ft-lbs make & break torque
- Temperature range -45°C / +55°C
- Lowest noise emissions
- Available drilling enhancement software: Soft Torque Systems; Remote Access

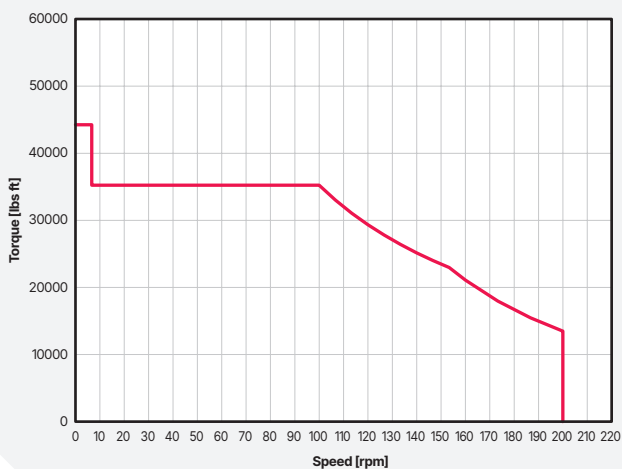
Benefits

- ✓ **Flexible design.** The TD-250-C can be used as portable or fixed installation
- ✓ **Various carriage solutions available** to meet any mast configuration
- ✓ **Fully retrofittable** into existing rigs

Specifications

Hoisting and rotating	250 ton	227 t
Drilling motor	AC-induction motor	
Motor rating	672 hp	500 kW
Working height	222 in	5.64 m
Weight	23,809 lbs	10.8 t
Gear	Helical gear; 15:1	
Max. continuous torque	35,200 ft-lbs	47,750 Nm
Speed at max. cont. torque	100 rpm	
Max. speed	200 rpm	
Max. make & break out torque	44,254 ft-lbs	60,000 Nm
Static brake torque	51,500 ft-lbs	70,000 Nm
Mainshaft quill ID	2-1/2 in	63.5 mm
Working pressure	7,500 psi	517 bar
Min. connection range	2-1/2 in	63.5 mm
Max. connection range	7-1/2 in	191 mm
IBOP connection	NC 50	
Cooling system	Local blower	
Hydraulic power	Onboard	
Suitable elevator links	150, 250 & 350 ton API	
Min. temperature	-49°F	-45°C
Max. temperature	+131°F	+55°C
Footprint (width x depth)	55 in x 63 in	1.40 m x 1.60 m

Performance curve TD-250-C @ 55°C ambient





Top Drive

TD-275-HT

Key features

- 672 hp single motor
- 275 ton API-8C
- 35,200 ft-lbs cont. torque @ 100 rpm
- 51,500 ft-lbs make & break torque
- Temperature range -45°C / +55°C
- Lowest noise emissions
- Available drilling enhancement software: Soft Torque Systems; Remote Access

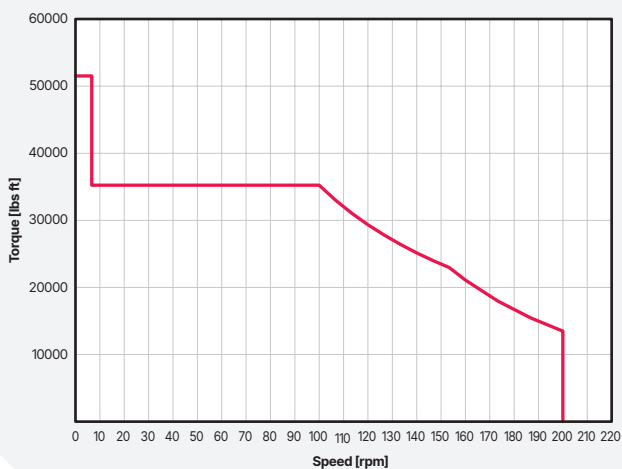
Benefits

- ✓ **Flexible design.** The TD-275-HT can be used as portable or fixed installation
- ✓ **Various carriage solutions available** to meet any mast configuration
- ✓ **Fully retrofittable** into existing rigs

Specifications

Hoisting and rotating	275 ton	250 t
Drilling motor	AC-induction motor	
Motor rating	672 hp	500 kW
Working height	225 in	5.71 m
Weight	24,912 lbs	11.3 t
Gear	Helical gear; 15:1	
Max. continuous torque	35,200 ft-lbs	47,750 Nm
Speed at max. cont. torque	100 rpm	
Max. speed	200 rpm	
Max. make & break out torque	51,500 ft-lbs	70,000 Nm
Static brake torque	51,500 ft-lbs	70,000 Nm
Mainshaft quill ID	2-1/2 in	63.5 mm
Working pressure	7,500 psi	517 bar
Min. connection range	2-1/2 in	63.5 mm
Max. connection range	7-3/4 in	197 mm
IBOP connection	NC 50	
Cooling system	Local blower	
Hydraulic power	Onboard	
Suitable elevator links	150, 250 & 350 ton API	
Min. temperature	-49°F	-45°C
Max. temperature	+131°F	+55°C
Footprint (width x depth)	55 in x 74 in	1.40 m x 1.88 m

Performance curve TD-275-HT @ 55°C ambient





Top Drive

TD-350-HT

Key features

1,040 hp single motor

350 ton API-8C

46,500 ft-lbs cont. torque @ 115 rpm

73,760 ft-lbs make & break torque

Temperature range -45°C / +55°C

Integrated link-tilt monitoring

Lowest noise emissions

Available drilling enhancement software: Soft Torque Systems; Remote Access

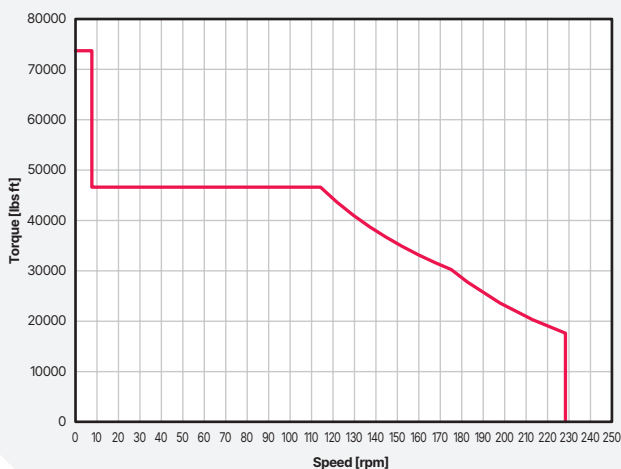
Benefits

- ✓ **Flexible design.** The TD-350-HT can be used as portable or fixed installation
- ✓ **Various carriage solutions available** to meet any mast configuration
- ✓ **Fully retrofittable** into existing rigs

Specifications

Hoisting and rotating	350 ton	318 t
Drilling motor	AC-induction motor	
Motor rating	1,030 hp	758 kW
Working height	250 in	6.35 m
Weight	34,613 lbs	15.7 t
Gear	Helical gear; 15:1	
Max. continuous torque	46,500 ft-lbs	63,000 Nm
Speed at max. cont. torque	115 rpm	
Max. speed	230 rpm	
Max. make & break out torque	73,760 ft-lbs	100,000 Nm
Static brake torque	77,440 ft-lbs	105,000 Nm
Mainshaft quill ID	3 in	76.2 mm
Working pressure	7,500 psi	517 bar
Min. connection range	2-1/2 in	63.5 mm
Max. connection range	8-1/2 in	216 mm
IBOP connection	NC 61	
Cooling system	Local blower	
Hydraulic power	Onboard	
Suitable elevator links	150, 250 & 350 ton API	
Min. temperature	-49°F	-45°C
Max. temperature	+131°F	+55°C
Footprint (width x depth)	65.4 in x 61.2 in	1.66 m x 1.55 m

Performance curve TD-350-HT @ 55°C ambient





Top Drive

TD-500-XT

Key features

- 1,140 hp single motor
- 500 ton API-8C
- 52,000 ft-lbs cont. torque @ 115 rpm
- 73,760 ft-lbs make & break torque
- Temperature range -45°C / +55°C
- Lowest noise emissions
- Available drilling enhancement software: Soft Torque Systems; Remote Access

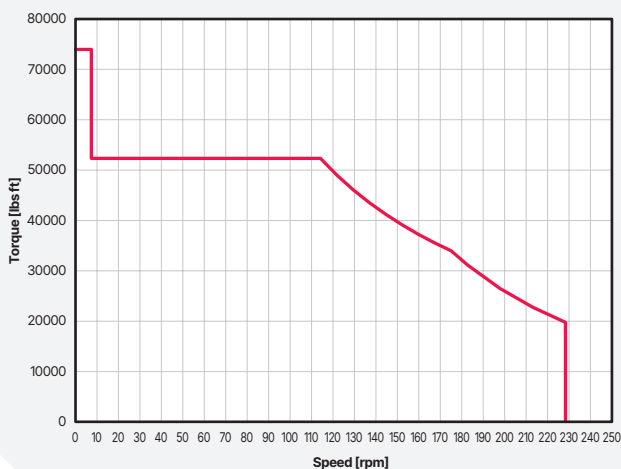
Benefits

- ✓ **Flexible design.** The TD-500-XT can be used as portable or fixed installation
- ✓ **Various carriage solutions available** to meet any mast configuration
- ✓ **Fully retrofittable** into existing rigs

Specifications

Hoisting and rotating	500 ton	454 t
Drilling motor	AC-induction motor	
Motor rating	1,140 hp	850 kW
Working height	250 in	6.35 m
Weight	34,613 lbs	15.7 t
Gear	Helical gear; 15:1	
Max. continuous torque	52,000 ft-lbs	70,580 Nm
Speed at max. cont. torque	115 rpm	
Max. speed	230 rpm	
Max. make & break out torque	73,760 ft-lbs	100,000 Nm
Static brake torque	77,444 ft-lbs	105,000 Nm
Mainshaft quill ID	3 in	76.2 mm
Working pressure	7,500 psi	517 bar
Min. connection range	2-1/2 in	63.5 mm
Max. connection range	8-1/2 in	216 mm
IBOP connection	NC 61	
Cooling system	Local blower	
Hydraulic power	Onboard HPU	
Suitable elevator links	150, 250 and 350 ton API	
Min. temperature	-49°F	-45°C
Max. temperature	+131°F	+55°C
Footprint (width x depth)	65.4 in x 61.2 in	1.66 m x 1.55 m

Performance curve TD-500-XT @ 55°C ambient





Top Drive

TD-750-HT

Key features

1,609 hp single motor

750 ton API-8C

73,760 ft-lbs cont. torque
@ 115 rpm

118,000 ft-lbs make &
break torque

Temperature range
-45°C / +55°C

Lowest noise emissions

Available drilling enhancement
software: Soft Torque
Systems; Remote Access

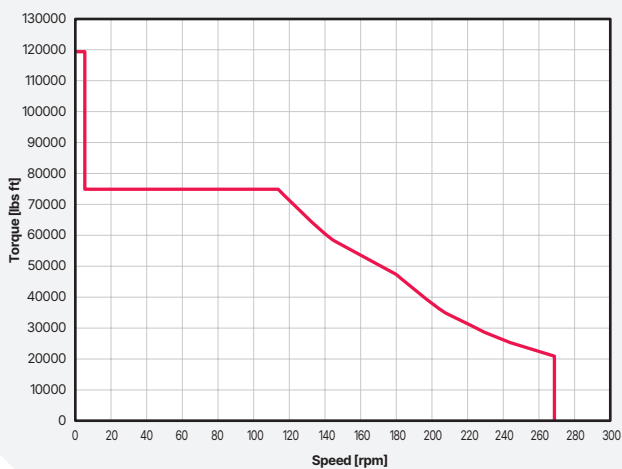
Benefits

- ✓ Various carriage solutions available to meet any mast configuration
- ✓ Fully retrofittable into existing rigs

Specifications

Hoisting and rotating	750 ton	680 t
Drilling motor	AC-induction motor	
Motor rating	1,609 hp	1,200 kW
Working height	279 in	7.09 m
Weight	57,250 lbs	26 t
Gear	Helical gear; 10.6:1	
Max. continuous torque	73,760 ft-lbs	100,000 Nm
Speed at max. cont. torque	115 rpm	
Max. speed	270 rpm	
Max. make & break out torque	118,000 ft-lbs	160,000 Nm
Static brake torque	93,670 ft-lbs	127,000 Nm
Mainshaft quill ID	3-3/4 in	95.3 mm
Working pressure	7,500 psi	517 bar
Min. connection range	4 in	101.6 mm
Max. connection range	9-1/2 in	241.3 mm
IBOP connection	NC 70	
Cooling system	Local blower	
Hydraulic power	Onboard HPU	
Suitable elevator links	150, 250 and 350 ton API	
Min. temperature	-49°F	-45°C
Max. temperature	+131°F	+55°C
Footprint (width x depth)	87 in x 74 in	2.2 m x 1.88 m

Performance curve TD-750-HT @ 55°C ambient





Top Drive

TD-850-HT

Key features

1,609 hp single motor

850 ton API-8C

73,760 ft-lbs cont. torque
@ 115 rpm

118,000 ft-lbs make &
break torque

Temperature range
-45°C / +55°C

Lowest noise emissions

Available drilling enhancement
software: Soft Torque
Systems; Remote Access

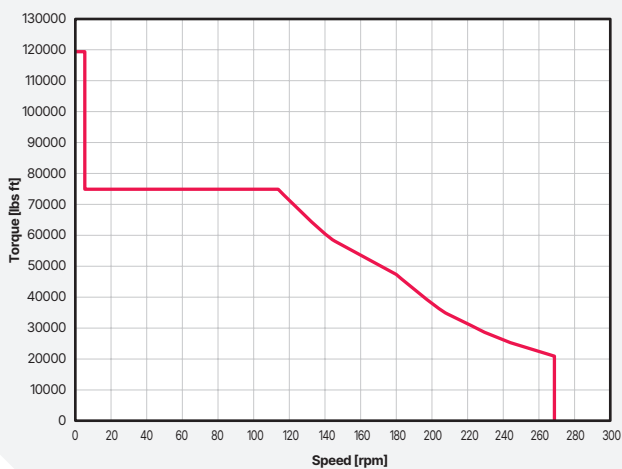
Benefits

- ✓ Various carriage solutions available to meet any mast configuration
- ✓ Fully retrofittable into existing rigs

Specifications

Hoisting and rotating	850 ton	770 t
Drilling motor	AC-induction motor	
Motor rating	1,609 hp	1,200 kW
Working height	279 in	7,090 mm
Weight	57,250 lbs	25.96 t
Gear	Helical gear; 10.6:1	
Max. continuous torque	73,760 ft-lbs	100,000 Nm
Speed at max. cont. torque	115 rpm	
Max. speed	270 rpm	
Max. make & break out torque	118,000 ft-lbs	160,000 Nm
Static brake torque	93,670 ft-lbs	127,000 Nm
Mainshaft quill ID	3-3/4 in	
Working pressure	7,500 psi	517 bar
Min. connection range	4 in	101.6 mm
Max. connection range	9-1/2 in	241.3 mm
IBOP connection	NC 70	API
Cooling system	Local blower	
Hydraulic power	Onboard HPU	
Suitable elevator links	Standard links	
Min. temperature	-49°F	-45°C
Max. temperature	+131°F	+55°C
Footprint (width x depth)	87 in x 74 in	2,200 mm x 1,880 mm

Performance curve TD-850-HT @ 55°C ambient



Iron Roughnecks

**Faster
Connections.
Lower Downtime.
Safer Operations.**

Product range

IR-80

IR-100

IR-120

IR-100 Remote

IR-120 Remote

**Faster Connections. Safer Operations.
Lower Cost per Well.**

BENTEC Iron Roughnecks are engineered to deliver the fastest cycle times, high reliability, and advanced automation, enabling drilling contractors and operators to reduce flat time, improve safety, and achieve consistent, high-performance connections.

Applications



Oil & gas



Onshore
& offshore
drilling
operations

Fastest cycle
time down to
34-40
seconds
per cycle.

- Up to 50% reduction in IR related flat time
- Remote operation for safer drilling
- Reduced maintenance and lower total cost of ownership

Reducing rig flat time and improving connection efficiency remains critical to well economics

Modern drilling operations demand:

- Faster connection cycles
- Reliable, repetitive performance
- Reduced manual operation for safety

Challenges include:

- Costly downtime during making / breaking connections
- Inconsistent cycle time
- High maintenance and spare part consumption
- Exposure of personnel to high-risk areas due to non-remote operations

- ✓ **Faster connections and reduced flat time**
- ✓ **Earlier well delivery**
- ✓ **Lower maintenance and operating costs**
- ✓ **Improved safety through automation and remote control**
- ✓ **Reliable, repeatable performance**

Why BENTEC?

More efficiency. More safety. More uptime.

A high-performance iron roughneck system designed to deliver fast, consistent, and automated pipe handling, reducing flat time while improving operational safety and reliability.

Unlike conventional systems, BENTEC Iron Roughnecks combine:

- High-speed cycle performance for faster connections
- Advanced automation and remote operation capabilities
- Dynamic clamping technology to protect tool joint bending
- Reliable, low-maintenance design

All systems are engineered for consistent performance, reduced wear, and seamless integration into modern drilling operations, complying with API, ATEX, and EU standards and are interchangeable with common third-party market models.

Designed to deliver

- ✓ **Fastest cycle time**
34-40 seconds per cycle. Minimizes flat time and enables earlier well delivery
- ✓ **Reduced downtime**
Up to 50% reduction in flat time. High reliability and longer MTBF ensure consistent operations
- ✓ **Improved safety**
Remote operation options remove personnel from hazardous areas
- ✓ **Lower total cost of ownership**
Reduced spare parts consumption, maintenance, and overhaul requirements
- ✓ **Consistent, repetitive performance**
Reliable make & break cycles with minimal variation
- ✓ **Advanced connection control**
Accurate torque measurement with digital recording and integration options
- ✓ **Tool joint protection**
Dynamic clamping eliminates "egging effect" and prevents over-torque of tool joints
- ✓ **Flexible product range**
Complete product range covering the entire suite of land rigs. Tailored from compact, to intelligently automated to heavy duty and high performance

Proven performance

- ✓ **Field-proven high-speed and consistent connection performance**
- ✓ **Reliable operation across harsh, global drilling environments**
- ✓ **Strong track record of reduced downtime and maintenance**
- ✓ **Long-term customer relationships and continuous deployments**



Iron Roughneck

IR-80

Specifications

Torque make-up	60,000 ft-lbs	81,350 Nm
Torque break-out	80,000 ft-lbs	108,465 Nm
Max. spinner speed	100 rpm (5 in DP)	
Horizontal travel	5 ft	1,524 mm
Min. connection height	24 in	610 mm
Max. connection height	63 in	1,600 mm
Length	55-1/8 in	1,400 mm
Width	53-1/8 in	1,350 mm
Height	76-3/4 in	1,950 mm
Weight	8,267 lbs	3,750 kg
Min. pipe diameter	2-7/8 in	73 mm
Max. pipe diameter	8-1/2 in	216 mm
Min. hydraulic pressure	2,500 psi	172 bar
Max. hydraulic pressure	3,000 psi	207 bar
Min. volume/flow	28 gpm	106 l/min
Max. volume/flow	40 gpm	151 l/min
Cycle time make-up	<=40 sec	
Pedestal rotation L/R	>=90 / >=90	
Ambient temperature	-4°F to 131°F	-20°C to +55°C
Ex / haz. zone	IP-Code 15	

Key features

Cost Effective. Highly Compact.

The IR-80 is designed with a compact footprint, making it ideal for space-constrained rig floors across both onshore and offshore operations. Engineered for reliability in harsh environments, including arctic and desert conditions, it delivers consistent performance wherever it is deployed. Flexible configuration options including hydraulic systems, central lubrication, and transport skid solutions ensure easy integration and adaptability to a wide range of rig requirements.

Benefits

- Cycle times down to 34 seconds per connection
- Reduced non-productive time (NPT)
- Interchangeable with common competitor iron roughnecks
- Easy installation and integration
- Field-proven, reliable design
- Component parts easily exchanged for simplified maintenance
- Improved operational safety
- Fully compliant with CE, ATEX



Iron Roughneck

IR-100 & IR-100-Remote

Specifications

Torque make-up	100,000 ft-lbs	135,600 Nm
Torque break-out	120,000 ft-lbs	162,700 Nm
Tool joint connection OD range	3-1/8 in – 9-3/4 in	
Spinner speed (nominal)	80 rpm @ 5" DP, 46 gmp / 176 ℓ/min. / 170 bar	
Spin torque	3,000 ft-lbs 4,000 Nm @ 5" DP, 46 gpm / 176ℓ/min.	
Max. connection height	69.2 in	1,759 mm
Min. connection height	30 in	759 mm
Max. horizontal travel*	8 ft	2,438mm
Max. hydraulic requirements	58 gpm @ 3,046 psi. / 220 ℓ/min. @ 210 bar	
Min. hydraulic requirements	35.3 gpm @ 2,466 psi. / 130 ℓ/min. @ 210 bar	
Torque wrench working angle	40°	
Controls	Local control panel or remote controls via zone rated HMI or zone rated wireless controls	
Remote capabilities	Sequence assisted automation	
Mount	Pedestal / floor mount socket	
Pedestal rotation	300°	
Casing ready	No	
Width	55.5 in	1,410 mm
Height (from drill floor level)	97.4 in	2,474 mm
Height (transport)**	86.6 in	2,200 mm
Depth (retracted)	89.4 in	2,271 mm
Weight	19,800 lbs	8.9 t
Max. temperature	131 °F	+55 °C
Min. temperature	-40 °F	-40 °C

* Horizontal travel is the defined distance between center of wrench when retracted and center of wrench when extended

** Socket pin removed from the unit for transport

Key features

Controlled Performance. Intelligent Automation.

The IR-100 is designed with a compact footprint for flexible integration across a wide range of rig configurations, whether for portable onshore use or permanent offshore installation.

The IR-100 is hydraulically operated, delivering robust, reliable operation.

IR-100 Remote is electro-hydraulically operated with advanced automation and remote capability — providing higher automation and enhancing both safety and operational efficiency.

Benefits

- Up to 50% reduction in flat time during make & break operations
- Fastest cycle times down to 37 seconds per connection
- Simplified electro-hydraulic system
- Precise torque measurement with dynamic clamping system
- Tool Joint pointer for automatic pre-positioning
- Integrated torque readout system for accurate make-up/break-out
- E-Torque List for digital recording and traceability
- Central lubrication system lowering greasing ports
- Spin-out sensor for improved operational control
- Improved HSE through reduced manual intervention
- Interchangeable with common third-party market models
- Fully compliant with CE, ATEX

Iron Roughneck

IR-120 & IR-120-Remote

Specifications

Torque make-up	100,000 ft-lbs	135,600 Nm
Torque break-out	120,000 ft-lbs	162,700 Nm
Tool joint connection OD range	3-1/8 in – 9-3/4 in	
Spinner speed (nominal)	80 rpm @ 5" DP, 46 gpm / 176 ℓ/min. / 170 bar	
Spin torque	3,000 ft-lbs 4,000 Nm @ 5" DP, 46 gpm / 176ℓ/min.	
Max. connection height	69.2 in	1,759 mm
Min. connection height	30 in	759 mm
Max. horizontal travel*	12 ft	3,657mm
Max. hydraulic requirements	58 gpm @ 3,046 psi. / 220 ℓ/min. @ 210 bar	
Min. hydraulic requirements	35.3 gpm @ 2,466 psi. / 130 ℓ/min. @ 210 bar	
Torque wrench working angle	40°	
Controls	Local control panel or remote controls via zone rated HMI or zone rated wireless controls	
Remote capabilities	Sequence assisted automation	
Mount	Pedestal / floor mount socket	
Pedestal rotation	300°	
Casing ready	No	
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Min. temperature	-40 °F	-40 °C

* Horizontal travel is the defined distance between center of wrench when retracted and center of wrench when extended

** Socket pin removed from the unit for transport

Key features

High Performance. Heavy Duty.

The IR-120 is engineered for demanding drilling applications, delivering high performance in the most challenging operating environments. Its robust design supports both portable onshore use and permanent offshore installation, providing flexibility across rig configurations.

The IR-120 is hydraulically operated, ensuring powerful and reliable performance.

The IR-120 Remote is electro-hydraulically operated, offering advanced automation and remote capability — reducing manual intervention while enhancing safety, consistency, and operational efficiency.

Benefits

- Up to 50% reduction in flat time during make & break operations
- Fastest cycle times down to 37 seconds per connection
- Simplified electro-hydraulic system with reduced hydraulic requirements
- High-accuracy torque measurement with dynamic clamping system
- Automatic positioning via Tool Joint Pointer
- Integrated torque readout system for consistent connection quality
- E-Torque List for digital recording and performance tracking
- Central lubrication lowering grease ports
- Spin-out sensor for enhanced control and safety
- Improved HSE through automation and remote operation
- Interchangeable with common third-party market models
- Fully compliant with CE, ATEX

Hydraulic Catwalk Systems

Faster Handling.
Safer Operations.
Total Control.

Product range

HCS-W (Winch Type)

HCS-C (Cylinder Type)

Handle Faster. Operate Safer.
Deliver More.

BENTEC Hydraulic Catwalks are engineered to transform tubular handling performance delivering fast, precise, and fully controlled movement from ground to drill floor while significantly reducing manual intervention and improving safety across rig operations.

Faster tubular
handling cycles
compared to
conventional
systems down to
25 seconds.

- High cycle speed for faster stand building
- Remote-controlled precision handling
- High reliability and uptime



Applications



Oil & gas



Geothermal



Lithium
extraction



Global
onshore
drilling
operations

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Tubular handling remains one of the highest-risk and most labor-intensive operations on the rig

Modern operations demand:

- Faster standbuilding and tripping performance
- Reduced manual handling
- Consistent, repeatable operations

Without automated catwalk systems:

- Increased risk of incidents and workforce exposure
- Slower drilling and handling performance
- Higher manpower requirements
- Inefficient rig operations

- ✓ Fast, repeatable tubular handling
- ✓ No delays in the handling process
- ✓ Reduced workforce exposure to risk
- ✓ Consistent and efficient rig performance

Why BENTEC?

More control. More safety. More efficiency.

A high-performance hydraulic catwalk system designed to safely and efficiently transport tubulars between ground level and drill floor, supporting advanced pipe handling operations and reducing risk exposure.

Unlike conventional systems, BENTEC Catwalks deliver faster, safer, and fully controlled tubular handling in a compact, modular design.

- Fast cycle speeds for optimized handling performance
- Precise remote control capabilities
- Seamless integration with advanced pipe handling systems

Built on a modular design, BENTEC Catwalks can be adapted to a wide range of rig configurations and operational requirements.

Designed to deliver

- ✓ **Faster tubular handling**
High cycle speeds support efficient standbuilding and faster tripping operations
- ✓ **Enhanced safety**
Reduced manual handling and minimized workforce exposure to tubular handling risks
- ✓ **Maximum reliability**
Robust, field-proven design ensures high uptime and consistent performance
- ✓ **Advanced control & automation**
Multiple remote control options enable precise handling and integration with automated systems
- ✓ **Flexible & scalable design**
Modular system adaptable to various rig heights and upgradeable for advanced handling configurations
- ✓ **Lower operating costs**
Reduced manpower requirements and minimized downtime

Proven performance

- ✓ **Field-proven solutions across global land rig operations**
- ✓ **High reliability with reduced downtime during tubular handling**
- ✓ **Deployment across demanding environments, from Arctic to Desert conditions**
- ✓ **Trusted by drilling contractors and rig owners worldwide**



Hydraulic Catwalk System Winch Type

HCS-W-22-23

HCS-W-24-26

HCS-W-27-30

HCS-W-31-35

HCS-W-36-39

HCS-W-40-42



Key features

- High-speed cycle times down to 25 seconds
- Operational deck height <1 m
- Hydraulic pipe rack
- Compatible with BENTEC pipe guide arms
- External HPCU, easy to maintain and repair
- Can be used universally for many substructure heights
- Wireless remote-control console as a standard feature
- Transport length <18 m for reduced transport cost
- Compact transport dimensions
- Can be used as a normal catwalk in the event of failure
- Safe and hand-off pipe handling
- Simplified operation
- Full integration into a holistic rig pipe handling system

	HCS-W-22-23	HCS-W-24-26	HCS-W-27-30	HCS-W-31-35	HCS-W-36-39	HCS-W-40-42
Min. substructure hgt.	22 ft 6.7 m	24 ft 7.3 m	27 ft 8.2 m	31 ft 9.4 m	36 ft 11.0 m	40 ft 12.2 m
Max. substructure hgt.	23 ft 7 m	26 ft 7.9 m	30 ft 9.1 m	35 ft 10.7 m	39 ft 11.9 m	42 ft 12.8 m
Operational length	59.1 ft 18 m					
Operational height	2.85 ft 0.87 m					
Wd. (incl. pipe storage)	30.97 ft 9.44 m					
Min. tubular hand. dia.	2-7/8 in 73 mm					
Max. tubular hand. dia.	24 in 609.6 mm					
Max. tubular length	48 ft 14.6 m					
Max. tubular weight	10,000 lbs 4.5 t					
Storage cap. (each side)	30,000 lbs 13.6 t					
Cycle time (ground to drill floor)	22 sec	23 sec	24 sec	25 sec	26 sec	27 sec
Temperature range	-20°C to +55°C -4°F to +131°F					
Transport length	59.1 ft 18m					
Transport width	10.07 ft 3.07 m					
Transport height	11.5 ft 3.51 m					
Transport weight	71,650 lbs 32.5 t	73,194 lbs 33.2 t	74,736 lbs 33.9 t	76,280 lbs 34.6 t	78,044 lbs 35.4 t	79,587 lbs 36.1 t

Hydraulic Catwalk System Cylinder Type

HCS-C-16-25

HCS-C-25-35

HCS-C-35-40

HCS-C-40-46



Key features

- Sequence assisted controls
- Hydraulic pipe rack
- Hydraulic leveling system
- Optional trailer mounted transport system
- Optional walking system
- Compatible with BENTEC tailing arms
- One transport load
- Onboard HPU
- Suitable for fast moving rig concepts
- Fastened rig-up times
- Simplified operation
- Safe pipe handling
- Ready for pad drilling
- Full integration into a holistic rig pipe handling system

Bespoke solutions

- Low elevation catwalk
- Low noise catwalk
- Double casing handling catwalk
- Mechanized catwalk

	HCS-C-16-25	HCS-C-25-35	HCS-C-35-40	HCS-C-40-46
Min. substructure height	16 ft 4.9 m	25 ft 7.6 m	35 ft 10.7 m	40 ft 12.2 m
Max. substructure height	25 ft 7.6 m	35 ft 10.7 m	40 ft 12.2 m	46 ft 14 m
Operational length	72.8 ft 22.2 m			88 ft 26.8 m
Operational height	5.3 ft 1.6 m		5.9 ft 1.8 m	6.6 ft 2.0 m
Width (incl. pipe storage)			41.1 ft 12.52 m	
Min. tubular handling dia.			2-3/8 in 60.3 mm	
Max. tubular handling dia.	20 in 508 mm		24 in 610 mm	
Max. tubular length	48 ft 14.6 m		64 ft 19.51 m	
Max. tubular weight	8,000 lbs 3.6 t		16,000 lbs 7.3 t	
Storage capacity (each side)			44,092 lbs 20 t	
Cycle time (ground to drill floor)	35 sec	45 sec	50 sec	55 sec
Temperature range		-20°C to +55°C	-4°F to +131°F	
Transport length	72.8 ft 22.2 m		78.2 ft 23.83 m	
Transport width	8 ft 2.44 m		9.8 ft 3 m	
Transport height	5.9 ft 1.8 m		9.8 ft 3 m	
Transport weight	70,548 lbs 31 t	72,753 lbs 33 t	101,413 lbs 46 t	110,231 lbs 50 t

Drawworks

Maximum Speed.
Precise Hoisting
Control.



Product range

DW-E-1000-AC

DW-E-1250-AC

DW-E-1250-DC

DW-E-1500-AC

DW-E-1500-DC

DW-E-2000-AC

DW-E-2000-DC

DW-E-2300-AC

DW-E-2500-AC

DW-E-3000-AC

DW-E-3300-AC

Single & Two-Speed

Applications



Oil & gas



Geothermal



Onshore



Offshore



Newbuilds & retrofits

Engineered for Faster Tripping Performance.

BENTEC Drawworks combine high-speed hoisting performance, gear-driven reliability, energy-efficient regenerative braking and a simplified electric architecture to accelerate tripping operations, maximize uptime and reduce maintenance in the world's most demanding drilling environments.

57%

lower
drawworks NPT

- Precision drum grooving
- Integrated safety interlocks
- Reduced drill line wear

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The Drawworks is one of the most critical systems on the rig

Operators face increasing pressure to:

- Increase trip speed
- Reduce non-productive time
- Improve hoisting control
- Lower maintenance costs
- Operate safely in extreme environments

When the drawworks stops... the rig stops.

Why BENTEC?

Engineered for Maximum Uptime.

Unlike conventional clutch and chain-driven systems, BENTEC's gear-driven electric Drawworks combine regenerative braking, simplified architecture and intelligent control to deliver safer, quieter and more reliable hoisting.

With:

- 4-Quadrant regenerative drive
- Gear-driven design
- No water cooling
- No hydraulic braking
- In-house AC motor technology
- Proven field reliability

Designed to deliver

- ✓ **Maximum uptime**
Field-proven performance delivers significantly lower drawworks-related NPT, helping keep drilling operations moving
- ✓ **Smarter hoisting control**
4-Quadrant regenerative drive provides precise speed and load control for smoother, safer drilling operations
- ✓ **Reduced drill line wear**
Precision Lebus drum grooving promotes even spooling helps extend drill line service life
- ✓ **Lower maintenance**
Electric regenerative braking significantly reduces wear on the mechanical brake system, lowering maintenance requirements and extending equipment life
- ✓ **Simplified design**
Operating on electric power and compressed air only eliminates water cooling and hydraulic systems, reducing complexity with fewer components and potential failure points
- ✓ **Built for harsh environments**
Designed for reliable operation in temperatures from -40°C to +55°C, with configurations for Arctic, desert and offshore applications
- ✓ **Future ready**
Compatible with Feed-off, Auto Driller, Anti-Collision Systems and other drilling enhancement technologies

Proven performance

- ✓ **57% lower drawworks NPT**
- ✓ **30+ years of drawworks engineering experience**
- ✓ **Up to 40% lower braking maintenance**
- ✓ **Up to 50% longer mechanical service life**
- ✓ **Trusted major global operators and drilling contractors**

- ✓ **Higher rig uptime**
- ✓ **Lower total cost of ownership**
- ✓ **Faster, safer tripping**
- ✓ **Reduced maintenance**
- ✓ **Greater operational control**
- ✓ **Long-term reliability**

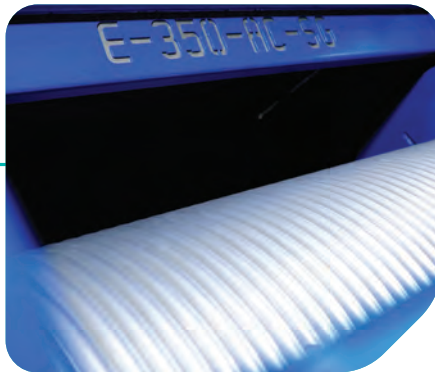


Drawworks

The Heart of Every Hoisting Operation.

BENTEC Drawworks deliver reliable, low-maintenance hoisting through a simplified electric architecture and energy-efficient regenerative braking.

Engineered for high-speed tripping, they provide precise load control while reducing wear, lowering operating costs and supporting safer drilling operations.



Built for Performance and Precision.

Reliable hoisting

Gear-driven architecture provides both high speed and high precision performance across the most demanding drilling operations.

Regenerative braking

4-Quadrant drive technology delivers precise control while reducing brake wear and maintenance.

Simplified systems

No water cooling. No hydraulic braking. Fewer components. Lower maintenance.

Drill-line protection

Original Lebus groove technology promotes even wireline spooling, helping extend drill-line life.

Built around your rig

Available for new builds, upgrades and retrofit projects across onshore and offshore drilling.

Complete lifecycle support

From engineering and commissioning to training, spare parts and retrofit services.

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Drawworks

DW-E-1000-AC

DW-E-1250-AC

DW-E-1250-DC

DW-E-1500-AC

DW-E-1500-DC

DW-E-2000-AC

DW-E-2000-DC

DW-E-2300-AC

DW-E-2500-AC

DW-E-3000-AC

DW-E-3300-AC

Single & Two-Speed



Key features

- Gear-driven electric drawworks
- AC or DC drive options
- 4-Quadrant regenerative drive
- Original Lebus-grooved drum
- Air-cooled eddy-current brake
- Fail-safe spring-set parking brake
- Electric power + compressed air only
- Feed-off & Anti-Collision ready
- Arctic & desert packages available

Benefits

The BENTEC DW-E Series combines gear-driven reliability, intelligent regenerative braking and simplified electric architecture to maximize uptime and reduce maintenance.

Operating on electric power and compressed air only, it eliminates water cooling and hydraulic systems while delivering precise hoisting control, quieter operation and improved drill-line life through original Lebus groove technology.

Built for demanding drilling environments, every unit is engineered to provide dependable performance, lower total cost of ownership and long-term operational reliability.

Specifications

Power range	1,000 to 3,300 hp
Drive options	AC or DC
Hook load	Up to 904 t
Line pull	Up to 653 kN
Line speed	Up to 18 m/s
Braking	4Q regenerative + eddy current
Operating temperature	-40°C to +55°C
Power requirements	Electric + compressed air
Cooling	Air cooled
Compliance	API 7K CE
Optional certifications	API ATEX DNV EAC

Mud Pumps

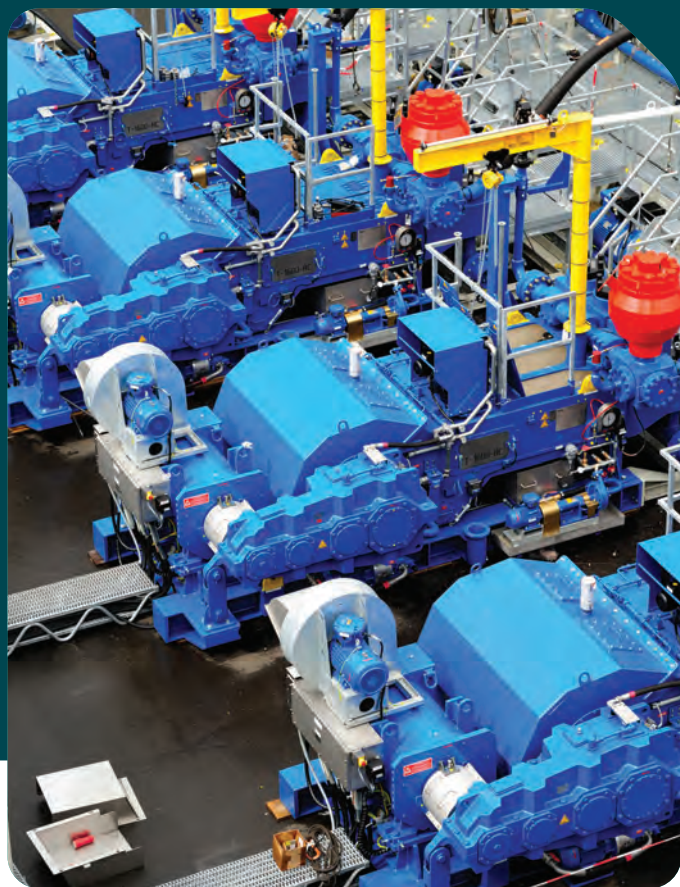
Precision
Flow Control.
Engineered
for Reliable
Performance.

Product range

MP-T-1300-AC

MP-T-1600-AC

MP-T-2200-AC



Applications



Oil & gas



Geothermal



Onshore



Offshore



Lithium
extraction

Reliable Power. Lower Maintenance.

BENTEC Mud Pumps deliver precise drilling fluid control and dependable performance through a robust engineering and external gearbox design. By eliminating chains, belts and internal gears, we simplify maintenance, maximize uptime and reduce total cost of ownership.

No chains.
No belts.
No internal gears.

- 35+ years mud pump experience
- Up to 7,500 psi
- Compact <3m footprint

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Mud pumps are one of the largest contributors to rig downtime and maintenance costs

Operators face increasing pressure to:

- Maintain precise drilling fluid control throughout the well
- Improve handling and maintenance safety
- Reduce non-productive time
- Lower maintenance costs
- Increase equipment reliability
- Extend wear-part life
- Integrate into existing rigs with minimal disruption
- Maintain precise control of drilling fluid volumes and circulation throughout the operation

Every maintenance event impacts productivity.

Why BENTEC?

Keeping Your Mud System Moving.

The BENTEC Mud Pump replaces internal gears, belts and chains with a direct-driven external gearbox and in-house motor technology to deliver reliable drilling fluid circulation with lower maintenance and improved operational safety.

Combined with patented maintenance systems and BENTEC Smart Fluid Ends, it delivers safer servicing, longer component life and dependable performance across the most demanding drilling environments.

Designed to deliver

- ✓ **Maximum uptime**
Direct-drive architecture reduces failure points and keeps drilling operations moving
- ✓ **Precise fluid control**
Designed to deliver accurate flow and pressure control, helping optimize drilling performance throughout every stage of the well
- ✓ **Lower maintenance costs**
External gearbox eliminates chain and belt tensioning while simplifying routine servicing
- ✓ **Safer maintenance & handling**
Engineered with service accessibility and maintenance safety in mind, reducing manual intervention and simplifying routine maintenance activities
- ✓ **Longer component life**
Self-aligning rod systems and balanced crankshaft reduce wear and extend piston and liner life
- ✓ **Built for every environment**
Available with Arctic, desert and offshore configurations for reliable performance worldwide

Proven performance

- ✓ **35+ years of mud pump engineering experience**
- ✓ **100+ mud pumps delivered worldwide**
- ✓ **Direct-drive external gearbox eliminates chains, belts and internal gears**
- ✓ **Patented liner retention and quick-service systems reduce maintenance time**
- ✓ **Available in 5,000 psi and 7,500 psi configurations**
- ✓ **Designed for the highest uptime and lowest total cost of ownership**
- ✓ **24/7 aftermarket service support and worldwide spare parts availability**



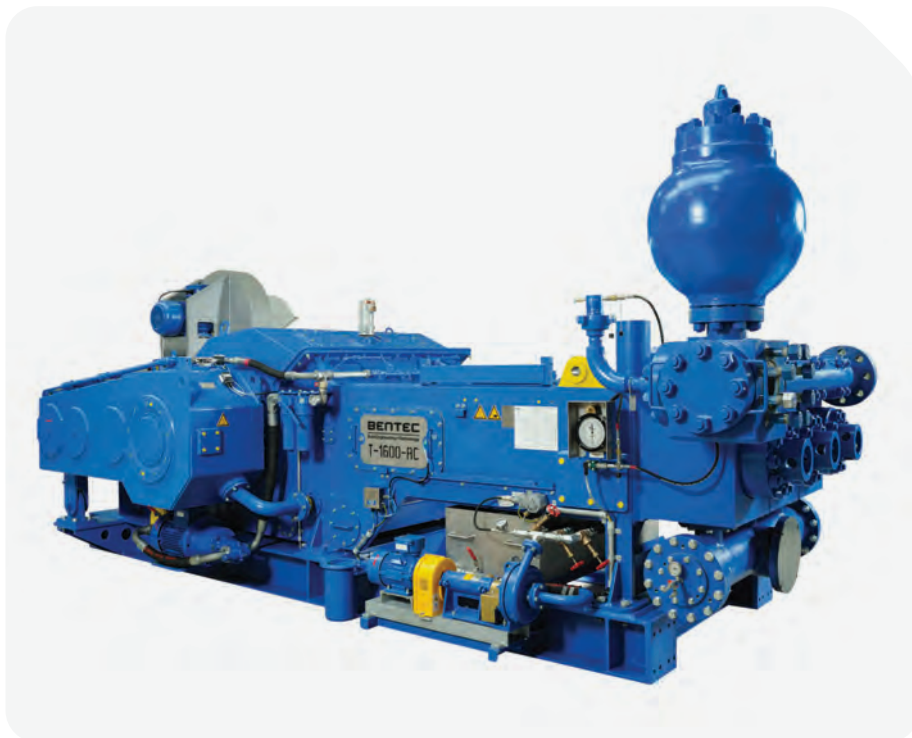
- ✓ **Reduced maintenance downtime**
- ✓ **Lower total cost of ownership**
- ✓ **Safer servicing**
- ✓ **Longer wear-part life**
- ✓ **Reliable mud circulation**
- ✓ **Greater drilling efficiency through precise flow control capabilities**

Mud Pumps

MP-T-1300-AC

MP-T-1600-AC

MP-T-2200-AC



Specifications

Power range	1,300 to 2,200 hp
Maximum pressure	7,500 psi
Maximum flow rate	Up to 4,815 l/min
Maximum stroke rate	Up to 120 SPM
Drive options	AC or DC
Fluid ends	5,000 psi or 7,500 psi
Power supply	Electric drive
Compliance	API 7K components CE
Optional certifications	ATEX DNV API Monogram

Key features

- From 1300 to 2200hp
- Direct-driven external gearbox
- In-house AC motor technology
- Patented liner retention system
- Smart Fluid Ends
- P-Quip rod and valve systems
- 5,000 psi & 7,500 psi fluid ends
- Compact <3 m footprint
- optiPUMP™ upgradeable

Benefits

The BENTEC Mud Pump is engineered to maximize reliability while reducing maintenance and operating costs.

Its direct-driven external gearbox eliminates chains, belts and internal gears, reducing wear and simplifying servicing.

Patented liner retention and quick-service systems improve maintenance safety and minimize downtime, while Smart Fluid Ends and upgradeable configurations provide long-term flexibility.

Designed for demanding drilling environments, every pump delivers dependable precision and performance, lower total cost of ownership and the uptime drilling operations depend on.

Top Drive Service Loop

**Reliable Power.
Continuous
Performance.
Built for Harsh
Environments.**

Product range

BENTEC Service Loop

Customer-Specific Configurations

Reduce Downtime.

Extend Service Life. Keep Drilling.

The BENTEC Top Drive Service Loop is a heavy-duty cable and hose management system designed to provide continuous power, control and communication between the rig and the moving top drive. Engineered for harsh drilling environments, the Service Loop delivers reliable performance, extended operating life and reduced downtime across onshore and offshore drilling operations worldwide.

Applications



Oil & gas



Geothermal



Land rigs



Offshore
platforms



Jack-up rigs



Workover
units

- Designed for operating temperatures from -45°C to +55°C
- Heavy-duty cable protection
- Fast replacement capability
- Reliable power and signal transmission

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Top drive operations depend on reliable power, control and communication systems operating continuously under demanding drilling conditions

Operators and contractors face increasing pressure to:

- Reduce unplanned top drive downtime
- Improve service life and reliability
- Minimize replacement and maintenance effort
- Maintain safe and uninterrupted drilling operations

Without high-performance service loop systems:

- Cable and hose failures can interrupt drilling operations
- Top drive shutdowns lead to costly downtime
- Maintenance and replacement activities increase safety exposure
- Frequent replacements increase operational cost and lifecycle risk

Why BENTEC?

More durability.

More reliability. More uptime.

The BENTEC Top Drive Service Loop is engineered to deliver continuous and dependable power, control and communication between the rig and top drive during drilling operations. Built with heavy-duty materials and premium cable protection, the Service Loop is designed to withstand extreme temperatures, harsh operating conditions and high-cycle drilling environments.

BENTEC Service Loops are designed for longer service life, easier replacement and improved operational reliability, helping drilling contractors reduce downtime and total operating cost.

- Heavy-duty construction for harsh drilling environments
- Reliable power and signal transmission during critical operations
- Faster replacement and simplified installation
- Compatible with a wide range of top drive systems and rig configurations
- Designed for long-term operational reliability

Designed to deliver

✓ Maximum reliability

Ensures continuous power and communication to the top drive during drilling operations

✓ Reduced downtime

High durability and simplified replacement minimize costly operational interruptions

✓ Extended service life

Premium cable protection and robust construction reduce wear and replacement frequency

✓ Flexible integration

Compatible with a wide range of top drive systems, rig layouts and customer specifications. Suitable for one, two or three 4 or 5 in. loop configurations

✓ Built for harsh environments

Designed to operate reliably across offshore, desert, Arctic and high-cycle drilling conditions

✓ Lower lifecycle cost

Reduced maintenance frequency and longer operating life help minimize total ownership cost

- ✓ Reduced top drive downtime
- ✓ Longer service intervals and reduced replacements
- ✓ Reliable power and signal transmission
- ✓ Safer and faster maintenance activities
- ✓ Improved operational consistency and uptime



Proven performance

- ✓ Field-proven across land rigs, offshore rigs and drilling packages worldwide
- ✓ Designed for extreme temperatures and harsh drilling environments
- ✓ Compatible with multiple top drive systems and rig configurations
- ✓ Trusted by drilling contractors, rig owners and service teams globally
- ✓ Built for long-term drilling operations and high-cycle performance

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Ready to improve Top Drive reliability and reduce downtime?
Speak to a BENTEC expert

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Top Drive Cable Chain

Smarter Cable Management.
Lower Maintenance.
Higher Reliability.

Product range

BENTEC Cable Chain

Application-Specific Configurations

Reduce Wear. Lower Downtime.
Improve Reliability.

The Top Drive Cable Chain is a multi-directional flexible cable management system designed to safely guide and protect power, control and media lines on top drive systems. Combining the advantages of conventional drag chains and service loops without the need for complex guiding systems, it delivers a durable, maintenance-friendly and highly flexible solution for demanding drilling operations.

Applications



Oil & gas



Geothermal



Land rigs



Offshore platforms



Jack-up rigs



Workover units

- Multi-directional flexible cable management without additional guiding systems
- Replace individual components without replacing the full loop
- Compatible with common third-party market configurations
- Designed for harsh drilling environments

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Conventional service loops and drag chains often suffer from high wear, limited flexibility and difficult maintenance requirements

Operators face increasing pressure to:

- Reduce unplanned downtime caused by cable or hose failures
- Improve maintenance efficiency and reduce replacement cost
- Maintain safe and organized cable routing under dynamic drilling conditions
- Extend service life and improve operational reliability

Without advanced cable management systems:

- Cable wear and friction increase failure risk
- Loop collisions and uncontrolled movement create operational hazards
- Entire loop assemblies often require replacement after failure
- Downtime, maintenance effort and operating cost increase

Why BENTEC?

More flexibility.

Less wear. Greater uptime.

The Top Drive Cable Chain is engineered to provide reliable and maintenance-friendly cable management for top drive operations. Combining multi-directional flexibility with a modular design, it safely routes power, control and optional hydraulic or pneumatic lines while reducing wear and mechanical stress.

It allows individual components or cables to be replaced without changing the entire loop system and can be configured to suit a wide range of rig and operational requirements, including custom loop lengths, cable layouts, hydraulic or pneumatic line integration, alternative mounting configurations, and project-specific compliance or certification requirements.

- Multi-directional flexibility without guiding systems
- Reduced friction and cable wear
- Modular design with replaceable individual components
- Compact and organized routing of power and control lines
- Designed for harsh drilling environments in temperatures from -45°C to +55°C and high-cycle operations

Designed to deliver

✓ Reduced downtime

Individual cables and components can be replaced quickly without replacing the complete loop assembly

✓ Lower maintenance costs

Reduced wear and simplified repairs help minimize maintenance effort and operating cost

✓ Full flexibility

Multi-directional movement adapts naturally to top drive operation without complex guiding systems

✓ Easier inspection & maintenance

Visible and accessible cables support preventive maintenance and operational planning

✓ Longer service life

Reduced bending stress and friction improve durability and cable lifetime

✓ Reliable operation

Designed for stable power and signal transmission across demanding drilling environments

Proven performance

✓ Field-proven across onshore and offshore drilling operations

✓ Successfully deployed on demanding North Sea asset and various land rigs across Europe and Middle East

✓ Designed for harsh drilling environments and high-cycle operations

✓ Supports reduced maintenance effort and improved uptime

✓ Trusted by drilling contractors and rig operators worldwide

✓ Reduced maintenance and replacement downtime

✓ Improved cable protection and reliability

✓ Compatible with common third-party market configurations

✓ Lower lifecycle operating costs

✓ Safer and more predictable drilling operations



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Ready to reduce service loop maintenance and improve reliability?
Speak to a BENTEC expert

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Offline Stand Builder

Recover Rig Time.
Build Stands
Offline.

Product range

Mast-Mounted

PLC Controlled

Move Stand Building Off the Critical Path.

The BENTEC Offline Stand Builder builds drill pipe stands while drilling continues, removing stand preparation from the critical path.

By automating heavy tubular handling, it improves productivity, reduces crew exposure and helps drilling contractors recover valuable rig time on every well.

Recover
2 to 3
days per well

- 7.1t lifting capacity
- Integrated driller's control console



Applications



Oil & gas



Land drilling



High-spec
rigs



Pad drilling



Rig
automation

Every minute spent building stands on the drill floor is time that cannot be recovered

Drilling contractors are under increasing pressure to:

- Reduce flat time
- Improve drilling efficiency
- Eliminate manual stand building
- Protect crews from heavy tubular handling
- Maximize rig utilization

Stand preparation shouldn't delay drilling.

- ✓ More productive drilling operations
- ✓ Reduced flat time
- ✓ Safer tubular handling
- ✓ Consistent stand preparation
- ✓ Greater rig utilization
- ✓ Improved return on rig assets

Why BENTEC?

Keep Drilling. Build Stands Simultaneously.

Unlike offline cranes or floor-mounted handling systems, the BENTEC Offline Stand Builder integrates directly into the mast and the driller's control system, allowing stands to be built while drilling continues. The result is greater operational efficiency without interrupting the drilling process.

- Stand building removed from the critical path
- Mechanized tubular handling
- Console-integrated control
- Repeatable stand preparation
- Improved safety and productivity

Designed to deliver

- ✓ **Recover critical path time**
Builds and breaks stands offline, allowing drilling operations and stand preparation to happen simultaneously
- ✓ **Increase rig productivity**
Removes stand preparation from the drilling sequence, helping reduce flat time and improve overall rig utilization
- ✓ **Protect your crew**
Mechanized lifting, gripping and positioning remove personnel from heavy tubular handling at the mast
- ✓ **Repeatable pipe handling**
PLC-controlled movements with load, position and rotation monitoring deliver consistent stand building every cycle
- ✓ **Integrated rig control**
Interfaces directly with the existing driller's console, eliminating the need for a separate operator station
- ✓ **Built around your rig**
Engineered specifically for your mast and control system, ensuring seamless integration into existing operations

Proven performance

- ✓ **Stand building completed offline to recover valuable rig time**
- ✓ **Approx. 2 to 3 days recovered per well (application dependent)**
- ✓ **7.1 t lifting capacity**
- ✓ **PLC-controlled with full load and position monitoring**
- ✓ **Designed around API RP 505 and the European Machinery Directive**



Offline Stand Builder

Mast-Mounted

PLC Controlled



Key features

- Mast-mounted pipehandler
- Crown-mounted 7.1 t VFD winch
- Integrated drill pipe grabber
- PLC control with HMI
- Existing driller's console integration
- Full load and position monitoring
- Hydraulic grabber and tilt system

Benefits

The BENTEC Offline Stand Builder removes stand preparation from the drilling critical path by building and breaking stands while drilling continues.

Its mast-mounted pipehandler combines lifting, gripping, rotating and positioning in one PLC-controlled system, helping improve productivity while reducing manual handling and crew exposure.

Designed to integrate directly with the existing driller's console, the Offline Stand Builder delivers repeatable stand building, safer tubular handling and greater rig utilization throughout the life of the asset.

Specifications

Tubular range	DP 2-7/8 in to 6-5/8 in DC 4 in to 9-5/8 in Casing 4-1/2 in to 9 5/8 in
Lifting capacity	7.1 t
Control	PLC with HMI
Integration	Existing driller's console
Compliance	API RP 505 European Machinery Directive

Power Control Room

Centralized Power.
Smarter Integration.
Reliable Operations.

Product range

VFD-Based PCR Systems

SCR-Based PCR Systems

Modular Containerized PCR Solutions

Customer-Specific Configurations

Simplify Power. Reduce Downtime. Stay in Control.

The BENTEC Power Control Room (PCR) is a fully integrated, modular container solution that centralizes the electrical power distribution and control systems of a drilling rig into one engineered environment. Housing VFDs, SCRs, MCCs, switchgear and protection systems, the PCR delivers reliable power management, simplified integration and predictable performance for critical drilling operations.

Applications



Oil & gas



Onshore
& offshore
drilling



Rig
newbuilds



Rig upgrades &
electrification
projects

- Factory-assembled and factory-tested for faster commissioning and reduced integration risk
- Centralized power management
- Modular containerized design
- Reduced commissioning and mobilization time

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Modern drilling rigs rely on increasingly complex electrical power systems where multiple drives, switchboards and auxiliary consumers must operate seamlessly together

Operators and contractors face growing pressure to:

- Reduce downtime and commissioning delays
- Improve power system reliability and visibility
- Simplify integration across multiple systems
- Maintain compliance, safety and lifecycle performance

Without a fully integrated PCR solution:

- Multi-vendor integration increases project complexity
- Commissioning and troubleshooting become time-consuming
- Downtime and operational risk increase
- Maintenance and lifecycle costs become more difficult to manage

Why BENTEC?

More integration.

More reliability. More control.

The BENTEC PCR is a fully engineered and factory-tested power control solution designed to centralize drilling rig power distribution, drive systems and protection architecture into one controlled environment.

Unlike conventional site-assembled power rooms, the BENTEC PCR arrives pre-assembled, pre-tested and ready for installation, significantly reducing integration complexity, commissioning time and operational risk.

- Fully integrated VFD, SCR, MCC and protection systems
- Factory-tested prior to delivery for predictable start-up performance
- Modular containerized design for easier transport and rig integration
- Centralized monitoring, power management and protection
- Flexible architecture supporting upgrades and future electrification projects
- ISO-containerized modular design
- Integrated HVAC-controlled environment
- Plug-and-play external connections

Designed to deliver

✓ Reduced downtime

Integrated power control architecture improves system reliability and simplifies fault management

✓ Faster commissioning

Factory-tested container solutions reduce on-site installation and commissioning effort

✓ Simplified integration

Single-source engineered solution reduces multi-vendor interfaces and project complexity

✓ Improved operational control

Centralized monitoring and protection provide greater visibility across rig power systems

✓ Flexible & future-ready

Modular architecture supports rig upgrades, electrification and evolving operational requirements

✓ Lower lifecycle risk

Standardized design improves maintainability, serviceability and long-term asset value

- 
- ✓ Reliable rig power performance
 - ✓ Faster mobilization and commissioning
 - ✓ Reduced integration and operational risk
 - ✓ Simplified maintenance and troubleshooting
 - ✓ Long-term operational flexibility and asset value

Proven performance

✓ Delivered across global drilling rig projects and major rig upgrades

✓ Factory-tested systems supporting reduced commissioning effort

✓ Integrated VFD and SCR-based architectures deployed worldwide

✓ Trusted by drilling contractors, EPCs and rig operators

✓ Designed for long-term drilling rig lifecycle support

Top Drive Control Room

**Flexible Power.
Reliable
Performance.
Built for Modern
Drilling Operations.**

Product range

250/275t

350/500t

750t

Maximize Uptime. Simplify Integration. Future-Proof Operations.

The BENTEC Top Drive Control Room is a compact, high-performance Variable Frequency Drive (VFD) container solution designed to safely power and control electrically driven top drive systems up to 2,000 HP. Engineered for demanding onshore and offshore drilling environments, the system delivers flexible integration, reliable operation and simplified standardization across mixed top drive fleets.

- Compatible with top drive systems up to 2,000 HP
- Multi-brand top drive compatibility
- Integrated AFE technology
- 24/7 remote support capability

Applications



Oil & gas



Geothermal



Land rigs



Offshore platforms



Newbuild
& retrofit
projects

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Many drilling contractors operate mixed top drive fleets across different rigs and regions, creating challenges around integration, spare parts, training and maintenance consistency

Operators are under increasing pressure to:

- Reduce costly top drive downtime
- Standardize operations across multiple rig types
- Improve reliability and maintenance efficiency
- Extend the life of existing assets through modernization

Without flexible and integrated drive solutions:

- Downtime caused by drive system failures impacts operations and revenue
- Troubleshooting and maintenance become more complex
- Different systems increase training and spare part requirements
- Aging assets become more difficult and costly to maintain

- ✓ **Reduced top drive downtime**
- ✓ **Simplified fleet standardization**
- ✓ **Faster commissioning and rig mobilization**
- ✓ **Improved maintenance and troubleshooting efficiency**
- ✓ **Long-term operational flexibility and asset value**

Why BENTEC?

More flexibility. More uptime. More control.

The BENTEC Top Drive Control Room is a custom-engineered VFD container solution designed to power, control and integrate electrically driven top drive systems across a wide range of rig applications. Built for both newbuild and retrofit projects, the system provides a flexible and standardized platform capable of supporting multiple top drive brands and varying power supply conditions.

Featuring advanced Active Front End (AFE) technology, the system delivers stable performance, improved power quality and greater energy efficiency while supporting wide voltage and frequency ranges. Combined with integrated remote diagnostics and 24/7 support capability, the solution is designed to maximize uptime and reduce operational risk.

- Compatible with top drive systems up to 2,000 HP
- Supports mixed fleet and retrofit applications
- Advanced AFE technology for flexible power input and improved efficiency
- Wide application range: 600 to 690 V, 50 to 60 Hz (available from 400 V on request)
- Designed for harsh drilling environments in temperatures from -45°C to +55°C
- Compact, ready-to-connect container design
- Integrated remote support and diagnostics capability

Designed to deliver

- ✓ **Increased uptime**
Reliable drive performance and fast diagnostics help minimize operational interruptions
- ✓ **Faster mobilization**
Compact pre-configured container design simplifies installation and commissioning
- ✓ **Flexible fleet integration**
Compatible with multiple top drive brands and varying rig configurations
- ✓ **Improved operational control**
Precise torque and speed control support stable and predictable drilling performance
- ✓ **Future-ready modernization**
Supports rig upgrades, electrification projects and long-term asset lifecycle extension
- ✓ **Global operational readiness**
Designed for reliable operation across harsh offshore, desert and Arctic environments

Proven performance

- ✓ **Over 300 container solutions delivered globally**
- ✓ **Successfully deployed across onshore and offshore drilling operations**
- ✓ **Designed for retrofit and mixed fleet applications worldwide**
- ✓ **Integrated remote support for fast diagnostics and troubleshooting**
- ✓ **Trusted across demanding drilling environments and operating conditions**



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Ready to modernize your top drive operations?
Speak to a BENTEC expert

sales@bentec.com bentec.com

Top Drive Control Room

250/275t

350/500t

750t



Key features

High-performance drive solution for electrically driven top drives

- Compatible with top drive systems up to 2,000 HP
- Advanced Active Front End (AFE) technology
- Flexible voltage and frequency input capability
- Compact ready-to-connect container design
- Integrated cooling and protection systems
- 24/7 remote diagnostics and support capability
- Suitable for onshore and offshore drilling operations
- Supports mixed fleet and retrofit applications
- Designed for harsh operating environments worldwide

Specifications

Length	118 in 3 m
Width	134 in 3.4 m
Height	118 in 3 m
Weight	13,000 lbs 6.5 t
Temperature	-45°C to +55°C -49°F to +131°F
Incoming switchboard	600V or 690V with 50Hz or 60Hz (available from 400 V on request)
VFD current	Up to 1600A

Customer-specific configurations

The BENTEC Top Drive Control Room can be configured to suit a wide range of operational requirements, including custom-engineered layouts and interfaces, extended power and multi-drive configurations, climate adaptation solutions for harsh environments, and project-specific compliance or certification requirements. It can also be enhanced with remote diagnostics and condition monitoring system packages for predictive maintenance.

Slip Lifter

**Faster Slip
Handling.
Safer Operations.
Greater
Consistency.**

Product range

SL-1500-FN

Improve Safety. Reduce Exposure. Increase Consistency.

The BENTEC Slip Lifter is a hydraulically operated pipe handling tool designed to remotely lift slips from the rotary table master bushing, reducing personnel exposure within the red zone while improving operational consistency. Developed to support safer and more efficient tubular handling, the Slip Lifter delivers repeatable slip-to-slip performance while supporting modern hands-off drilling operations.

Applications



Oil & gas



Geothermal



Onshore
arctic + desert
environments



Offshore
platforms

- Remote-operated slip handling designed to reduce red-zone personnel exposure
- Faster slip-to-slip performance
- Hands-off pipe handling philosophy
- Seamless rig integration

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Slip handling can be a repetitive and high-risk activity on the rig floor where personnel are frequently exposed to hazardous operating areas

Today's drilling operations need:

- Reduced personnel exposure in the red zone
- Faster and more consistent slip handling
- Improved operational repeatability
- Greater support for hands-off rig floor operations

Without automated or remotely operated slip handling solutions:

- Personnel remain exposed to hazardous lifting operations
- Slip-to-slip times can vary between crews and operations
- Operational consistency and efficiency are reduced
- Increased risk of incidents and non-productive time remains

Why BENTEC?

More consistency.

More safety. More control.

The BENTEC Slip Lifter is designed to improve rig floor safety and operational consistency by remotely lifting slips from the rotary table during drilling operations. Integrated as part of the pipe handling system, the Slip Lifter supports a hands-off operating philosophy while delivering smooth and repeatable handling performance.

Designed for seamless integration with rig hydraulic systems and compatible with existing market control systems, the Slip Lifter provides an efficient, field-proven solution for modern drilling operations.

- Remote-operated slip handling from a safe position
- Improved slip-to-slip cycle consistency
- Seamless integration into existing rig hydraulic systems
- Compatible with industry-standard control systems
- Designed to support safer hands-off operations

Designed to deliver

- ✓ **Enhanced rig floor safety**
Removes personnel from the red zone during slip handling operations
- ✓ **Faster & more consistent operations**
Improves and standardizes slip-to-slip cycle times across drilling operations
- ✓ **Hands-off pipe handling**
Supports safer remote-operated drilling floor processes and automation initiatives
- ✓ **Seamless integration**
Hydraulic controls integrate easily into existing rig systems and control architecture
- ✓ **Reliable field-proven design**
Robust design delivers smooth and repeatable performance across demanding environments
- ✓ **Reduced non-productive time**
Improved operational consistency helps reduce delays during tubular handling activities

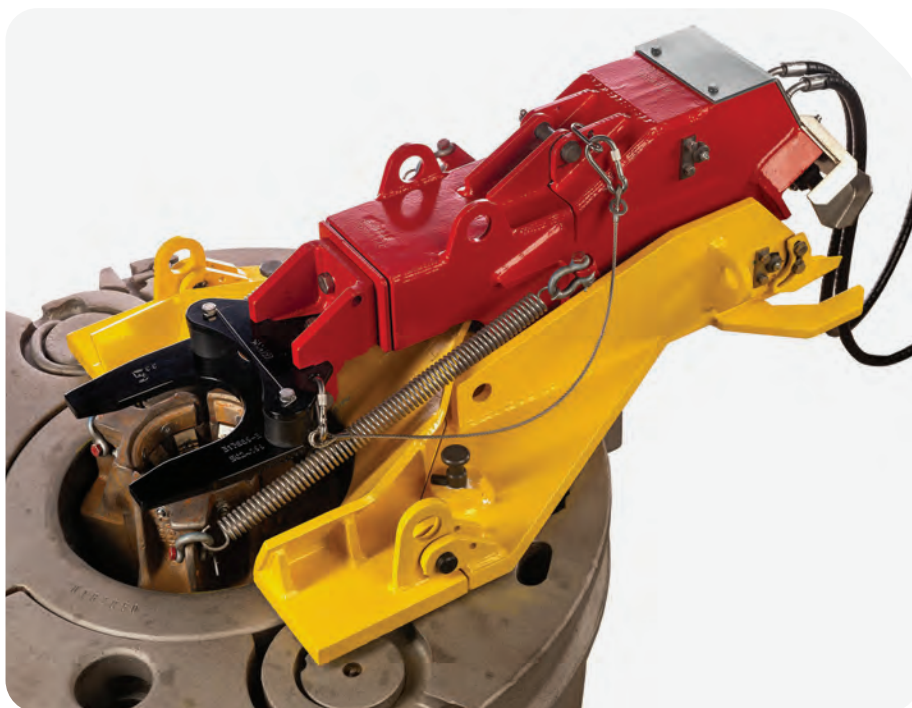
Proven performance

- ✓ **Field-proven across land rigs, offshore platforms and MODUs**
- ✓ **Designed for harsh operating environments including arctic and desert conditions**
- ✓ **Compatible with industry-standard control systems and rotary tables**
- ✓ **Supports modern rig automation and hands-off operational strategies**
- ✓ **Trusted across global drilling operations**

- ✓ **Reduced red-zone exposure**
- ✓ **Safer slip handling operations**
- ✓ **Consistent slip-to-slip performance**
- ✓ **Reduced operational delays and NPT**
- ✓ **Improved hands-off rig floor operations**



Slip Lifter

SL-1500-FN

Specifications

Length	41.5 in 1,056 mm
Width	27.8 in 708 mm
Height (arm closed down)	17.3 in 440 mm
Height (arm closed up)	37.6 in 956 mm
Weight	200 kg
Temperature range	-20°C to +55°C -4°F to +131°F

Key features

- Remote hydraulic slip lifting operation
- Designed to reduce red-zone personnel exposure
- Compatible with API rotary tables 27-1/2 in & 37-1/2 in
- Compatible with market-standard systems
- Interchangeable fork head mounting units
- Integrated skidding plate and slip stabbing guides
- Compatible with existing market control systems
- Field-proven robust hydraulic design
- Supports hands-off pipe handling philosophy

Traveling Blocks

Built to Lift.
Engineered
to Last.

Product range

TB-250

TB-275

TB-350

TB-400

TB-500

TB-650

TB-750

TB-1000

Dependable Hoisting. Day After Day.

The BENTEC Traveling Block delivers reliable heavy-duty hoisting through a robust fabricated frame, independently mounted sheaves and proven low-maintenance design.

Built to API 8C standards, it helps drilling contractors reduce wear on the delicate drill line, maximize service life and maintain dependable lifting performance in the world's harshest drilling environments.

250 to
1,000
ton capacity

- 20+ years proven service
- API 8C certified
- Operating from -45°C to +55°C

Applications



Oil & gas



Geothermal



Onshore



Offshore



Newbuilds &
retrofits

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Every hoisting operation depends on equipment that performs safely and reliably under extreme loads

Operators face increasing pressure to:

- Reduce hoisting-related downtime
- Extend drill line life
- Minimize time spent for maintenance
- Operate safely in harsh environments
- Meet global lifting standards

When hoisting equipment fails, drilling stops and crew may be at risk

Why BENTEC?

Engineered for Long-Term Reliability.

Unlike conventional traveling blocks, the BENTEC design combines independently mounted sheaves, individual bearing lubrication and a streamlined housing to reduce wear, simplify maintenance and deliver dependable performance throughout the life of the rig.

Built for compatibility with all standard API hoisting equipment and Top Drives, every unit is engineered, manufactured and tested by BENTEC.

Designed to deliver

- ✓ **Dependable hoisting**
Heavy-duty fabricated construction and forged alloy components deliver reliable lifting under continuous drilling operations
- ✓ **Longer service life**
Independently mounted sheaves with tapered roller bearings and hardened grooves reduce wear on both bearings and drilling line
- ✓ **Reduced maintenance**
Individual grease passages to every bearing improve lubrication and simplify routine maintenance
- ✓ **Built for harsh environments**
Designed for reliable operation from -45°C to +55°C, with proven performance from Arctic to desert drilling operations
- ✓ **Universal compatibility**
Compatible with standard traveling equipment and Top Drives, making integration straightforward for new builds and retrofit projects
- ✓ **Safe by design**
Compact housing with recessed pins and grease points reduces transport damage, minimizes interference within the mast and supports safer handling during rig-up and maintenance

Proven performance

- ✓ **20+ years of field-proven operation**
- ✓ **100+ units delivered worldwide**
- ✓ **Available in 250 to 1000 ton load capacities**
- ✓ **Operating across Arctic, desert and offshore drilling environments**
- ✓ **API 8C certified with optional API Monogram, DNV and ATEX certification**
- ✓ **Supported by worldwide spare parts availability and 24/7 BENTEC aftermarket service**



- ✓ **Reliable hoisting performance**
- ✓ **Extended drilling line life**
- ✓ **Reduced maintenance downtime**
- ✓ **Long-term asset reliability**
- ✓ **Simplified inspections**
- ✓ **Greater operational confidence**

Traveling Blocks

TB-250

TB-275

TB-350

TB-400

TB-500

TB-650

TB-750

TB-1000



Specifications

Models	TB-250 to TB-1000
Load capacity	250 to 1000 ton
Sheaves	5 to 8
Sheave diameter	36 in to 74 in (914 to 1,880 mm)
Drilling line size	1-1/8 in to 2 in (model dependent)
Operating temperature	-45°C to +55°C
Lubrication	Individual grease passages to each bearing
Construction	Fabricated steel frame with forged alloy top clevis
Compliance	API 8C CE
Optional certifications	API Monogram DNV ATEX

Key features

- API 8C-certified traveling block
- Load capacities from 250 to 1000 ton
- Independently mounted sheaves
- Hardened API wireline grooves
- Tapered roller bearings
- Individual bearing lubrication
- Heavy-duty fabricated frame
- One-piece forged alloy top clevis
- Operating temperatures from -45°C to +55°C

Benefits

The BENTEC Traveling Block is engineered to deliver dependable hoisting with minimal maintenance and long service life.

Independently mounted sheaves, individual bearing lubrication and hardened wireline grooves reduce wear and extend drilling line life, while the compact, streamlined housing simplifies transport, installation and rig integration.

Built to API 8C standards and proven in drilling environments from Arctic to desert, every unit is designed to maximize reliability, minimize downtime and protect your investment throughout the life of the rig.

BOP Closing Unit

Guaranteed Well Control.
Engineered for Confidence.

Product range

BOP Accumulator Unit



Confidence Under Pressure.

The BENTEC BOP Closing Unit is engineered to deliver dependable well control when it matters most.

Designed to API 16D, latest revision it provides guaranteed hydraulic power, built-in redundancy and complete operational confidence, helping drilling contractors reduce risk, simplify compliance and keep rigs operating safely with confidence.

Applications



Onshore oil & gas



Arctic drilling



Land rigs



Surface BOP systems

100%

API 16D, latest revision-compliant redundant hydraulic control.

- Dedicated 5,000 psi shear circuit
- Modular containerized design

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Every well depends on reliable well control

Well control systems are the last line of defense. And there's no room for uncertainty.

Today's drilling contractors face increasing pressure to:

- Guarantee shut-in capability under all operating conditions
- Meet or go beyond strict API 16D, latest revision compliance requirements
- Reduce maintenance without compromising availability
- Mobilize rigs quickly across multiple locations
- Maintain operational confidence in harsh environments

Failure isn't an option.

Why BENTEC?

Confidence Built Into Every System.

The BENTEC BOP Closing Unit is more than an accumulator unit. It's a complete, API 16D, latest revision-engineered well control solution designed specifically around your BOP stack.

Unlike conventional systems, BENTEC combines:

- Fully redundant hydraulic power systems
- Dedicated high-pressure shear circuit
- Integrated hydraulic volume verification
- Containerized plug-and-play deployment
- Engineer-supervised commissioning and operator training

Every system is engineered, tested and documented to provide confidence from commissioning through the life of the rig.

Designed to deliver

- ✓ **Shut-in capability**
Redundant hydraulic energy ensures your BOP can always be actuated. Even in the event of a primary power failure
- ✓ **True API 16D, latest revision redundancy**
Independent pump systems and dual energy sources provide fail-safe operation and compliance with the latest API requirements
- ✓ **Reduced maintenance downtime**
Accumulator banks can be isolated and serviced independently, allowing maintenance without shutting down the complete unit
- ✓ **Faster rig mobilization**
Containerized skid design enables quicker installation, easier relocation and simplified servicing
- ✓ **Smarter well control**
Integrated hydraulic volume measurement provides accurate, repeatable verification of every BOP function
- ✓ **Built around your rig**
Every BOP Closing Unit is engineered to your exact BOP stack configuration, operating environment and project requirements

Proven performance

- ✓ **API 16D (3rd Edition) engineered for dependable well control and international compliance**
- ✓ **Dedicated 5,000 psi shear circuit ensures reliable blind / shear ram actuation**
- ✓ **Integrated hydraulic volume measurement verifies every BOP function for repeatable, predictable performance**
- ✓ **Delivered as a complete, factory-tested system, reducing integration risk and simplifying commissioning**
- ✓ **Proven on international land rigs across Europe and Asia, including demanding Arctic operating environments**

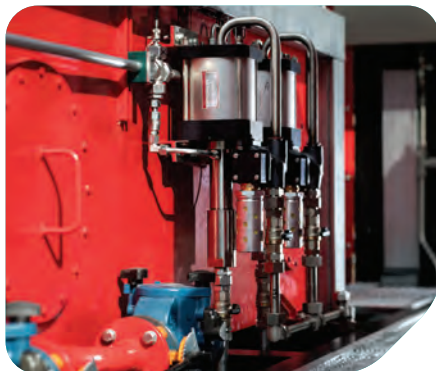


- ✓ **Shut-in capability when it's needed most**
- ✓ **Reduced maintenance without compromising availability**
- ✓ **Faster mobilization and commissioning**
- ✓ **Simplified API 16D, latest revision compliance**
- ✓ **Reliable well control throughout the life of the rig**
- ✓ **Greater confidence for drilling crews and operators**

BOP Closing Unit

Reliable Hydraulic Power When Every Second Counts.

The BENTEC BOP Closing Unit stores and delivers the hydraulic energy required to safely operate annular preventers, pipe rams and shear rams even during total loss of rig power. Designed around API 16D, latest revision requirements, it combines redundancy, safety and maintainability in one containerized solution.



Built for reliability

Every component has been designed to minimize operational risk while simplifying maintenance and improving uptime.

Redundant hydraulic power

Independent electric, pneumatic or triplex pumps maintain accumulator pressure under all operating conditions.

Dedicated shear circuit

Independent 5,000 psi shear accumulator system ensures reliable blind shear operation when required.

Intelligent maintenance

Accumulator banks can be isolated individually for servicing while the remaining system stays operational.

Integrated volume measurement

Monitor and verify exact hydraulic volumes for every BOP function with confidence.

Containerized design

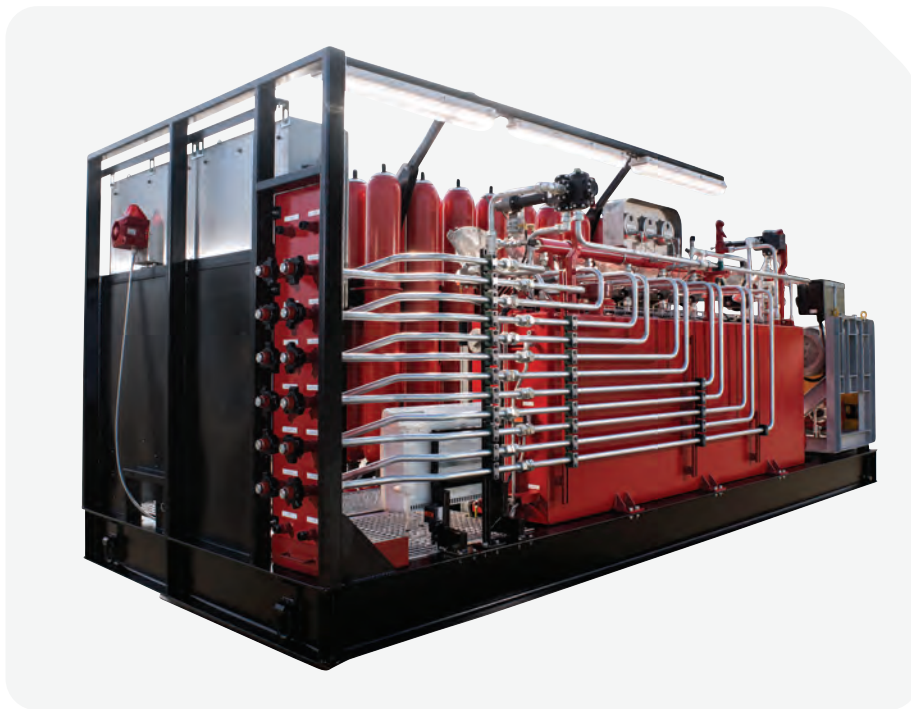
Self-contained ISO container enables rapid mobilization and simplified transportation.

Global support

From commissioning, training and lifecycle support, BENTEC partners with customers throughout the life of the equipment.

BOP Closing Unit

BOP Accumulator Unit



Specifications

Configuration	Accumulator bottles suitable to BOP requirements
Container options	ISO containerized unit
Accumulator working pressure	5,000 psi 345 bar
Rated working pressure	3,000 psi standard 5,000 psi optional
Bottle sizes	11 / 15 / 31 gal selectable
Operating temperature	0°C to +55°C standard
Cold climate option	Down to -45°C
Hydraulic medium	HLP hydraulic oil
UPS backup	Approximately 2 hours
Control options	Hard-wired standard PLC optional
Hazardous area options	ATEX Zone I Ex II 2G IIB T3 optional
Standards	API 16D CE ATEX EN 1127-1 EN 60079-14
Optional certification	API monogram IECEx ASME-code bottles

Key features

- Configurable accumulator bottle platform
- Dedicated 5,000 psi high-pressure shear circuit
- Redundant electric, pneumatic or triplex pump options
- Integrated volume-measuring device for BOP function verification
- Dual remote control stations for driller and toolpusher
- UPS-backed remote control operation
- Isolatable accumulator banks for maintenance without full shutdown
- Standard operating range 0°C to +55°C

Benefits

Engineered for dependable well control, the BENTEC BOP Closing Unit combines API 16D, latest revision-compliant redundancy, integrated volume verification and dual remote control to deliver reliable BOP actuation when it matters most.

Independent pump systems ensure fail-safe operation, while isolatable accumulator banks allow maintenance without shutting down the complete unit, maximizing uptime and reducing operational risk.

Optional configurations

- Pneumatic pump
- Triplex pump
- Ex-proof control package
- ATEX / IECEx options
- Fiber-optic remote cabling
- PLC control
- ASME-code accumulator bottles

Mechanized Derrickman System

Safer Pipe Handling. Higher Mechanization.

Product range

Mechanized Derrickman System

Keep Your Derrickman Safe. And Your Rig Moving.

The BENTEC Mechanized Derrick System removes the need for intensive manual stand handling at height of the fingerboard, reducing fatigue, improving safety and delivering consistent pipe handling, all without rebuilding your rig.

Applications



Oil & gas



Geothermal



Onshore



Offshore



Rig retrofits

Ready for any rig.

- Over 20 years Mechanized Derrickman System experience
- -45°C to +55°C

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Manual stand handling places significant physical demands on the derrickman

Operators face increasing pressure to:

- Improve personnel safety
- Reduce fatigue during long tripping operations
- Maintain or increase tripping speed
- Upgrade existing rigs without major structural modifications

Manual handling at height increases both operational risk and human error.

- ✓ Safer pipe handling operations
- ✓ Reduced derrickman fatigue
- ✓ Consistent or increased tripping performance
- ✓ Lower manual handling risk
- ✓ Improved crew confidence and retention

Why BENTEC?

Mechanized Safety Without Rebuilding Your Rig.

Unlike large racking systems that require a new derrick or fingerboard, the BENTEC Mechanized Derrickman System retrofits onto existing racking boards to mechanize stand handling with minimal modification.

Using a remote-controlled trolley and hydraulic tong, the derrickman guides every stand from a safe position rather than physically handling tubulars at height.

Designed to deliver

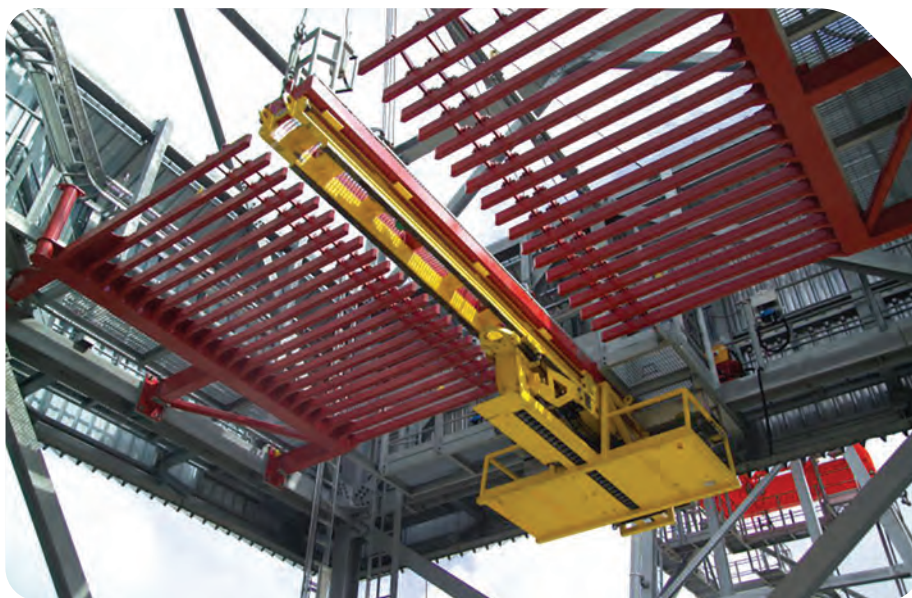
- ✓ **Improved personnel safety**
Removes intensive manual stand handling, reducing fatigue, physical strain and exposure to hazards at the fingerboard
- ✓ **Consistent pipe handling**
Remote-controlled trolley and hydraulic tong deliver repeatable stand positioning for smoother tripping operations
- ✓ **Mechanization without a rig rebuild**
Retrofits onto existing racking boards with only minor modifications, protecting existing rig investments
- ✓ **Greater operator control**
A portable belt-mounted joystick allows the derrickman to control stand movements safely from position
- ✓ **Built for extreme environments**
Designed for reliable operation from -45°C to +55°C across onshore and offshore drilling operations
- ✓ **Low maintenance design**
Engineered without consumable parts to maximize availability and minimize lifecycle maintenance

Proven performance

- ✓ Proven on rigs for over 20 years
- ✓ Retrofit installation typically completed in around 3 days
- ✓ Trusted by global operators and drilling contractors
- ✓ CE compliant, with optional ATEX and DNV certification
- ✓ Supported by BENTEC rig surveys, commissioning, training and lifecycle support

Mechanized Derrick System

Safer Pipe Handling. More Effective Tripping.



Specifications

Pipe size	2-7/8 in to 6-5/8 in (73 to 168 mm)
Maximum tong load	2 t
Maximum travel	3,470 mm
Maximum trolley speed	0.25 m/s
Operating temperature	-45°C to +55°C
Power supply	400 to 480 V AC 50/60 Hz
Installed power	7.5 kW
Weight	Approximately 2.7 t
Control	PLC + HMI
Operation	Portable joystick remote
Compliance	CE
Optional certifications	ATEX DNV

Key features

- Remote-controlled trolley and hydraulic tong
- Retrofit installation on existing racking boards
- Belt-mounted joystick remote
- Hydraulic Power Unit
- PLC and HMI system monitoring
- Hydraulic overload protection
- No consumable parts
- Suitable for onshore and offshore drilling
- Operating temperature -45°C to +55°C

Benefits

The BENTEC Mechanized Derrick System helps to improve rig safety by removing intensive manual stand handling and pinch points at the fingerboard.

Using a remote-controlled trolley and hydraulic tong, it delivers consistent pipe handling while reducing fatigue, manual handling risks and dropped-object exposure.

Designed to retrofit existing racking boards with minimal modification, the Mechanized Derrickman System extends the life of existing rigs while providing reliable, low-maintenance performance in the world's most demanding drilling environments.

Deadline Anchor

Engineered
for Control.
Built for Confidence.

Product range

DA-60-W

DA-100-W

DA-130-W

DA-150-W

DA-160-W

Wall or Floor Mounted

Left & Right Hand Configurations

Built to Perform. Precision Control.

The BENTEC Deadline Anchor provides secure dead-line anchoring, accurate hook-load measurement and reliable drilling line protection.

Engineered to API 8C, it delivers the control, precision and reliability drilling contractors need to operate safely in the world's most demanding environments.

Applications



Oil & gas



Geothermal



Land &
offshore
drilling



New builds &
rig retrofits

Up to
150,000 lbf
capacity

- API 8C certified
- Integrated weight measurement
- Operating from -40°C to +55°C

BENTEC

Bold Engineering + Technology

sales@bentec.com bentec.com

Drilling performance depends on maintaining complete control of the drilling line and everything touching it

Operators need equipment that can:

- Securely hold the dead line under full load
- Protect the drilling line from damage
- Deliver accurate hook-load measurement
- Enable safe slip-and-cut maintenance
- Meet demanding international compliance standards

Any loss of control introduces unnecessary operational risk.

Why BENTEC?

Complete Control. Engineered In.

The BENTEC Deadline Anchor combines certified dead-line anchoring, integrated weight measurement and drill-line friendly design in one engineered solution.

Unlike conventional deadline anchors, BENTEC delivers:

- API 8C-certified performance
- Accurate integrated weight indication
- Bronze clamp inserts that protect the drilling line
- DROPS-engineered safety features
- Complete OEM engineering, manufacturing and lifecycle support

Every unit is engineered, manufactured and load tested by BENTEC before delivery.

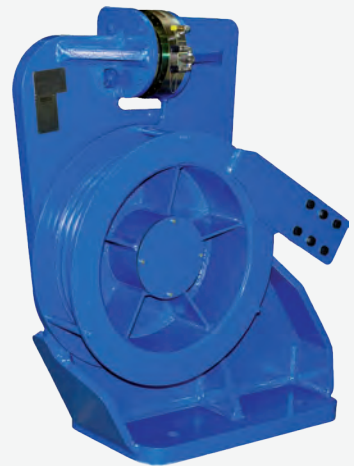
Designed to deliver

- ✓ **Secure anchoring. Accurate measurement.**
Provides secure dead-line anchoring and precise hook-load measurement to support safe, reliable drilling operations
- ✓ **Protects your drilling line**
Bronze clamp inserts grip the wireline securely while minimizing wear, helping extend drilling line service life
- ✓ **Accurate hook-load measurement**
Integrated hydraulic weight indication delivers accurate hook-load information for improved operational control and decision-making
- ✓ **Built for harsh environments**
Engineered to perform in temperatures from -40°C to +55°C, with an optional API SR2-certified design for -45°C operations
- ✓ **Flexible installation**
Available in wall or floor-mounted configurations to suit new builds, upgrades and retrofit projects
- ✓ **Certified performance**
Designed, manufactured and load tested to API 8C standards, with optional ATEX, DNV, ABS and API Monogram certification
- ✓ **Low maintenance design**
Machine-grooved drums, anti-friction bearings and robust construction reduce maintenance requirements and support long-term reliability
- ✓ **Simplified slip & cut operations**
Designed to streamline slip and cut procedures, reducing the time and effort required during wireline maintenance

Proven performance

- ✓ **API 8C designed, manufactured and load tested by BENTEC**
- ✓ **Certified dead-line load capacities up to 150,000lbf**
- ✓ **Operating globally since 2006 across Arctic, desert and offshore drilling environments**
- ✓ **Trusted by leading global drilling contractors**
- ✓ **Proven, failure-free operation reported by multiple international customers**
- ✓ **Optional API Monogram, DNV, ABS and ATEX certification**

- ✓ **Accurate, repeatable hook-load measurement**
- ✓ **Extended drilling line life**
- ✓ **Safer and faster maintenance procedures**
- ✓ **Reduced operational risk**

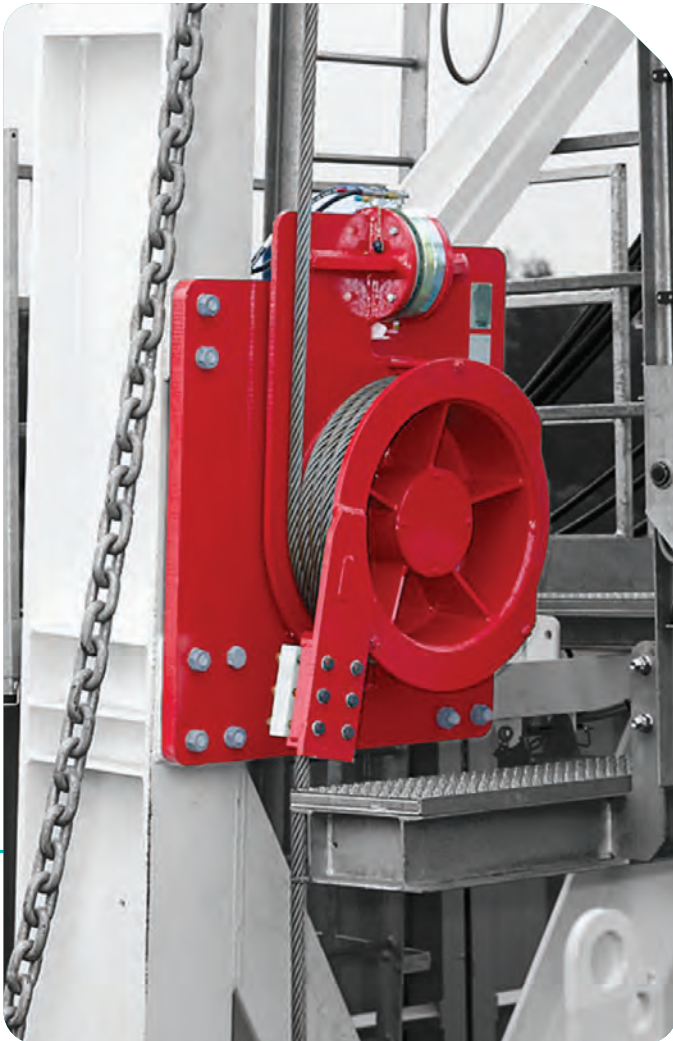


Deadline Anchor

Reliable Anchoring Starts with Engineered Design.

The BENTEC Deadline Anchor secures the deadline while providing accurate hook-load measurement and protecting the drilling line from unnecessary wear.

Designed for harsh drilling environments, it combines certified load capacity, integrated weight indication and robust construction in one dependable solution.



Built for Performance.

Certified load capacity

API 8C-certified design with load ratings up to 150,000 lbf.

Drill-line protection

Bronze clamp inserts securely grip the drilling line without crushing or damaging the wire rope.

Accurate weight measurement

Integrated compression load cell supports precise hook-load indication.

Easy and fast slip-and-cut maintenance

Machine-grooved drum and anti-friction bearings enable smooth, controlled line maintenance.

Flexible installation

Available in wall or floor-mounted configurations for new builds and retrofit projects.

OEM support

Designed, manufactured, load tested and supported by BENTEC throughout the equipment lifecycle.

BENTEC

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Deadline Anchor

DA-60-W

DA-100-W

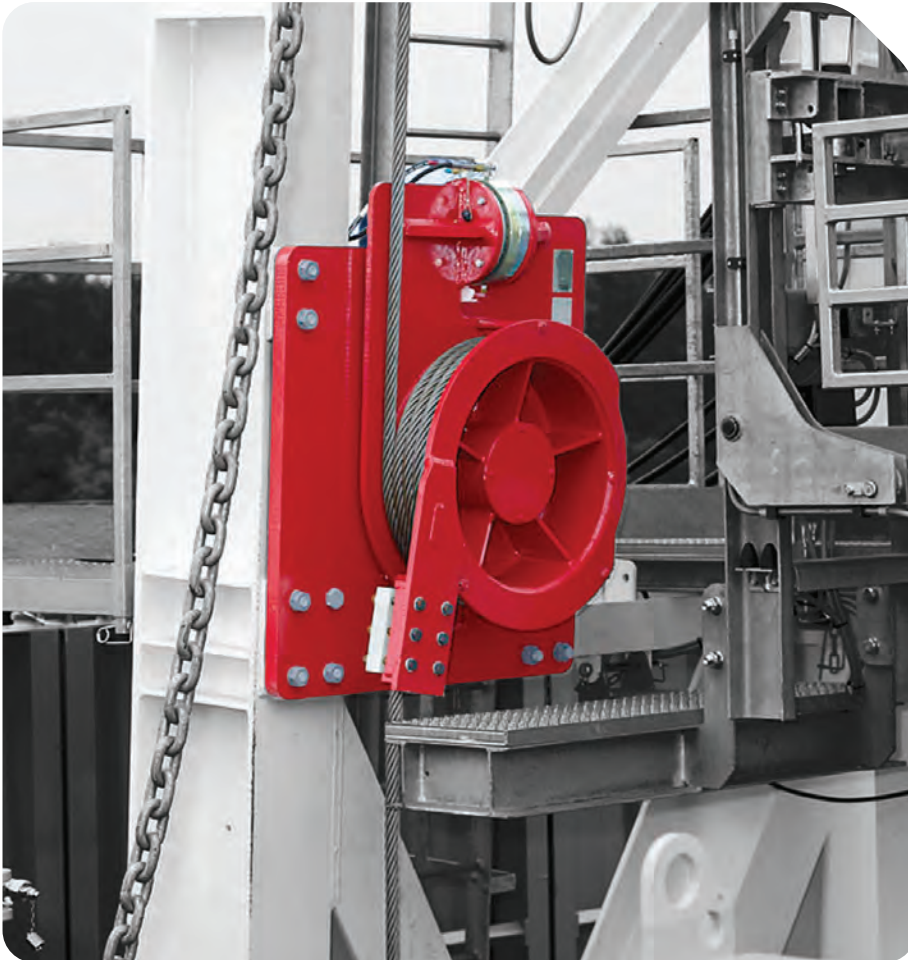
DA-130-W

DA-150-W

DA-160-W

Wall or Floor Mounted

Left & Right Hand Configurations



Key features

- API 8C certified design
- Line pull capacities from 60,000lbf to 150,000lbf
- Integrated hydraulic weight indication
- Bronze wireline clamp inserts
- Machine-grooved drum for controlled slip-and-cut operations
- Wall or floor-mounted configurations
- Operating temperatures from -40°C to +55°C
- Optional low-temperature certification to -45°C (API SR2)
- No electrical power required

Benefits

Engineered for optimal and precise drilling handling, the BENTEC Deadline Anchor provides secure dead-line anchoring, accurate hook-load measurement and reliable drilling line protection in one API 8C-certified solution.

Bronze clamp inserts grip the wireline without damaging it, while the integrated weight indication system delivers precise load measurement for safe drilling operations.

Designed for harsh environments and available in wall or floor-mounted configurations, every unit is manufactured and load tested by BENTEC to deliver dependable performance throughout the life of the rig.

Specifications

Line pull capacity	60,000 to 160,000 lbf (267 to 712 kN)
Wireline sizes	1-1/8 in to 1-5/8 in (28 to 42 mm)
Drum capacity	4 line wraps
Operating temperature	-40°C to +55°C
Low temperature option	API SR2 certified to -45°C
Weight indication	Hydraulic compression load cell system
Mounting options	Wall or floor mounted
Power requirement	None (mechanical anchor)
Compliance	API 8C CE DNV
Optional certification	API Monogram ATEX ABS SR2

Pipe Guide Arm

Hands-Off
Pipe Handling.
Built Around
Safety.

Product range

PGA-20-3000

Mast Mounted

Drill Floor Mounted

Remove Risk. Not Productivity.

The BENTEC Pipe Guide Arm automates the most hazardous stage of tubular handling by moving drill pipe and casing safely from the V-door to well center without ropes, chains or manual intervention. The result is safer operations, repeatable pipe handling and greater confidence on every trip.

Applications



Oil & gas



Geothermal



Onshore



Offshore



Newbuilds &
retrofits

Higher
mechanization
during tripping

- Handles tubulars up to 20 in
- Up to 3.0 t pipe weight
- Minimum red zone exposure

Manual pipe handling remains one of the highest-risk activities on the drill floor

Operators face increasing pressure to:

- Eliminate manual tubular handling
- Protect crews from swinging pipe
- Improve handling consistency
- Meet increasing HSE expectations

Every manual interaction introduces unnecessary risk.

- ✓ Hands-off tubular handling
- ✓ Reduced personnel exposure
- ✓ Improved HSE performance
- ✓ Greater operational confidence

Why BENTEC?

Engineered to Keep People Out of Harm's Way.

The BENTEC Pipe Guide Arm replaces manual rope-and-chain handling with a hydraulically controlled, teach-and-repeat guidance system that safely moves tubulars between the V-door and well center.

Unlike conventional handling methods, it combines:

- Hands-off pipe handling
- Repeatable stabbing positions
- One-operator joystick control
- Mast or floor-mounted flexibility

Every movement is controlled, repeatable and engineered to protect your crew.

Designed to deliver

✓ Protects your crew

Removes hands-on tubular handling, reducing exposure to swinging pipe, pinch points and dropped-object hazards

✓ Repeatable pipe handling

Teach-and-repeat stabbing positions ensure every pipe is guided accurately and consistently

✓ One-operator control

Simple joystick operation enables a single operator to control the entire pipe-guiding sequence safely

✓ Flexible installation

Available in mast-mounted and drill-floor-mounted configurations for both new builds and retrofit projects

✓ Engineered for harsh environments

Designed for reliable operation across onshore and offshore drilling environments, with Arctic and desert packages available

✓ Built for long-term reliability

Robust hydraulic design, defined spare-part programs and OEM lifecycle support maximize uptime throughout the life of the rig

Proven performance

✓ Handles tubulars from 2-7/8 in to 20 in

✓ Guides drill pipe weighing up to 3.0 t

✓ Available in mast-mounted and drill-floor-mounted configurations

✓ Built to the European Machinery Directive with API 8C, ATEX and DNV options

✓ Supported by rig surveys, commissioning, training and global spare parts

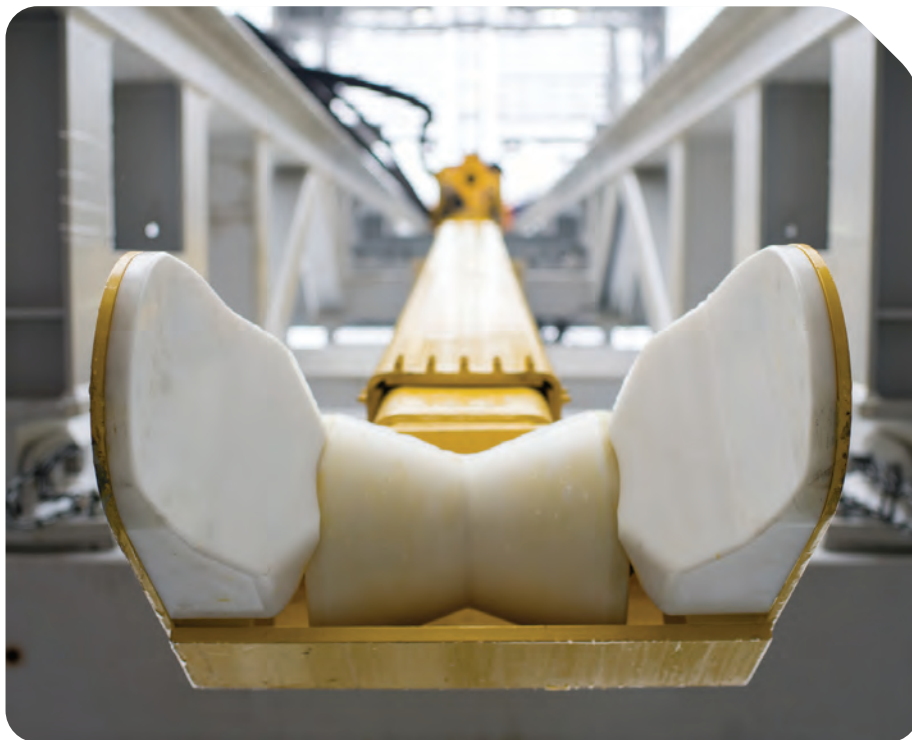


Pipe Guide Arm

PGA-20-3000

Mast Mounted

Drill Floor Mounted



Key features

- Hydraulic telescoping guide arm
- Mast-mounted or drill-floor-mounted
- Teach-and-repeat stabbing positions
- One-operator joystick control
- Pipe handling from 2-7/8 in to 20 in
- Maximum pipe weight 3.0 t
- Arctic and desert packages available

Benefits

The BENTEC Pipe Guide Arm automates tubular handling between the V-door and well center, removing the need for ropes, chains and manual intervention.

Teach-and-repeat positioning delivers consistent, repeatable pipe handling, while simple joystick operation allows one operator to control the process safely.

Available in mast-mounted and drill-floor-mounted configurations, the PGA helps improve HSE performance, reduce operational risk and support reliable pipe handling across the life of the rig.

Specifications

Model	PGA-20-3000
Pipe diameter	2 7/8 in to 20 in (73 to 508 mm)
Maximum pipe weight	3.0 t (6,614 lb)
Mounting options	Mast mounted or drill floor mounted
Motion	Hydraulic telescopic and swivel
Control	Joystick with teach-and-repeat positioning
Operating temperature	-20°C to +45°C
Hydraulic medium	HLP / HLVP hydraulic oil
Compliance	CE API 8C
Optional certifications	ATEX DNV

