

A powerful drill rig for great dephts

It is a rugged all-terrain, Radio Remote Controlled and crawler mounted drill rig that stands up to any terrain and ground condition it confronts. The Boyles C8C rig is a powerful, compact and reliable drill with a drill capacity of 2 013 meters (N-size).

Main benefits

Deep drilling-The Boyles C8C rig is ideal for deep borehole depths, and despite its power, it is compact in design and easy to operate in the field.

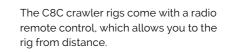
Robust design-Designed for sturdiness and operation in harsh environments, the Boyles C8C rig just goes on and on without interruption, thus minimizing service requirements.

Safety-The rig is designed with safety in mind, minimizing the risk of personal injury during operation.

Rotation unit – robust rotation unit with two speed providing the essential torque and rpm speed ranges for coring. It can drill effectively from 45 to 90 degree angles, make and break rods (from the control panel).

Rod holder – opens hydraulically and closes using gas pressure. In case of loss of hydraulic pressure, the rod holder closes instantly to prevent dropping the drill string in the hole. The jaws' gripping is evenly distributed around the drill string to reduce wear and tear on rods.







Ergonomic and user-friendly design, which displays the drilling parameters necessary to ensure productive drilling. Also included is a hold back function to prolong bit life.

Mast and feed system – sturdy and stable ensuring minimal vibrations, straight bore holes and optimum lifting/holding capacity.

Power pack and engine – the Cummins engine is recognized for its durable life, high efficiency and capability to minimize fuel consumption in the toughest of drilling operations. The engine is compliant with Tier III/Stage 3A.

Reliable and user-friendly

The Boyles C8C rig can drill in many different project sites, confronting the harshest conditions and environments. It offers the power necessary for effective surface core drilling for 2 013 meter N-size borehole depths. The rig's safety and ergonomic features provide confidence and assurance, making it first in mind and first in choice for drill operators.



+ Depth capacity

With a drill depth capacity of 2 013 meters N-size the Boyles C8C rig is the surface core drilling rig with the deepest drilling depth capacity in its drill class.



+ Ergonomics and safety

A user-friendly drill which gives operators a sense of comfort during operation. The rig comes equipped with guarding around moving parts, safety sensors, warning displays, nocturnal lighting, safety stops and fire-extinguishers.



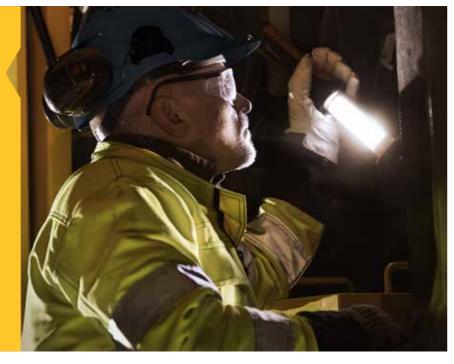
+ Productivity and lower operational costs

The parts and components making up the drill are of the highest quality and standard designed with durability in mind. The Boyles C8C rig is synonymous with productive drilling, high rate of uptime and minimal maintenance needed.

A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an Epiroc service from our certified technicians, we safeguard your productivity – wherever you are.



Technical specifications

Boyles C8C

Wireline hoist

The wireline hoist has a high level of speed control to ensure safe and consistent operation.

Rotation unit

The rotation unit can handle BO-PO rods and BW-HW casing. It consists of a hydraulic motor, a sealed gearbox, a hollow spindle and an Epiroc patented hydraulic chuck, and quick change chuck jaws. The rotation speed is adjustable from the control panel.



Main hoist

The powerful main hoist, equipped with a hydraulic motor and a dual brake system, ensures a well-controlled speed. The dual brake system offers both dynamic and static breaking. When the lifting operation is stopped, firm self-locking is applied.

Standard equipment

- · Hydraulic mast dump
- Mast in one section
- · Large crown sheave wheel
- Wear liners on mast
- Safety guards
- · Hydraulic oil reservoir fill pump
- Hydraulic oil tank volume (300 liters)
- Diesel tank volume (700 liters)
- Radio Remote Control (RRC)
- · Wireline winch

- · Hydraulic PW-size rod holder
- 4 hydraulic levelling jacks
- · Fuel filter & water separator
- · Hydraulic mast raise
- RPM meter
- Tachometer
- Lighting kit
- Crawler tracks
- · Control panel

Main hoist

| | Metric | US |
|---------------------------------|--------------|-------------|
| Single line capacity, bare drum | 133 kN | 30 000 lb |
| Line speed, bare drum | 40 m/min | 131 ft/min |
| Cable size | 29 m x 22 mm | 95' x 0.87" |

Rod holder

| Hydraulic open, gas spring closed - BO to PO rods/HW casing | Metric | US |
|---|--------|-----------|
| Max diameter | 235 mm | 9.3* |
| Clamping diameter PO size rods | 139 mm | 5.5* |
| Clamping capacity | 130 kN | 29 214 lb |

Depth capacity

| | Standard | | Thin Wall Rods | |
|------------|----------|-------|----------------|--------|
| | Metric | US | Metric | US |
| B wireline | 2 553 m | 8 376 | 3 032 m | 9 948' |
| N wireline | 2 013 m | 6 604 | 2 296 m | 7 533 |
| H wireline | 1 336 m | 4 383 | 1828 m | 5 997 |
| P wireline | 816 m | 2 677 | 1280 m | 4 199' |

These figures serve as guidelines only. They are calculated with available pull force from main winch, weight of drill string in water filled hole and average WOB. Epiroc cannot guarantee these capacities will be reached in all working conditions due to varying factors such as ITH used conditions of the ground and differences in operation.

Rotation unit

| Power | Hydraulic motor - variable speed/ reversible |
|--------------------------|---|
| Final drive | 2-speed gear driven |
| Spindle (inner diameter) | 124 mm (4.9") |
| Max torque | 7 602 Nm |
| Max speed | 1300 rpm |
| Gear change | Mechanical shift |
| | |

Mast and feed system

| Metric | US |
|-------------------|---|
| 3.5 m | 11.5 |
| High and Low with | variable control |
| 1.7 m | 5.57 |
| 59.6 kN | 13 390 lb |
| 156 kN | 35 000 lb |
| 45° - 90° | |
| 6.09 m | 20' |
| | 3.5 m High and Low with v 1.7 m 59.6 kN 156 kN 45° - 90° |

varying factors such as ITH used, conditions of the ground and differences in operation.

Technical specifications

Drill base supports

| Crawler mounted rig on crawler tracks | Crawler mounted rig on crawler tracks |
|---------------------------------------|--|
| Crawler band width | 400 mm (15.74°) |
| Crawler ground pressure | 11 psi/74.5 kPa |
| Radio control tramming speed (max) | 2.8 km/h |
| Support | 4 hydraulic jack legs to adjust rig height |
| Pad diameter | Ø210 mm |
| Leg adjust range | 600 mm (23.6°) |
| | |

Spindle data

| Curinalla | Ratio | Connect | Torque | |
|-----------|-----------|----------------|---------------|---------------|
| Spindle | Ratio | Speed | Metric (Nm) | US (lbf) |
| 1st | 17.55 : 1 | 50 – 200 rpm | 7 602 - 2 993 | 5 606 - 2 208 |
| 2nd | 2.70 : 1 | 350 - 1300 rpm | 1322 - 520 | 975 - 384 |

Chuck assembly

| Туре | Hydraulic open, spring close |
|------------------|------------------------------|
| Maximum diameter | 124 mm (4 %*) |
| Holding capacity | 178 kN |

Wireline hoist

| Capacity | 1500 m (4 921 ') of 6 mm (¾') or 1850 m (6 070 ') of 5 mm (¾ ₁₆ ') or 2200 m (7 218 ') of 4.76 mm (¾ ₁₆ ') |
|------------|--|
| Line pull | Bare drum: 12.6 kN (2 830 lb), full drum: 3.3 kN (750 lb) |
| Line speed | Bare drum: 115 m/min (377 ft/min), full drum: 434 m/min (1 424 ft/min) |

Trido

| Trido 140H | Metric | US |
|------------|-----------|------------|
| Flow | 140 l/min | 37 gal/min |
| Pressure | 70 bar | 1 015 psi |

Hydraulic system

| Primary pump | 31.2 MPa, 250 l/min (4 524 psi, 66 gal/min) |
|-----------------------|---|
| Secondary pump | 20 MPa, 125 L/min (2 901 psi, 33 gal/min) |
| Auxiliary pump | 21.5 MPa, 54 l/min (3 118 psi, 14 gal/min) |
| Hydraulic oil cooling | Air |

Power unit

| Manufacture | Cummins |
|-------------------|----------------------------------|
| Mode | QSB 6.7 |
| Volume | 6.7 liter, 6 cyl |
| Power | Tier 3: 179 kW (240 hp) |
| RPM | 2 000 |
| Engine type | Diesel turbocharged/after cooled |
| Cooling system | Water |
| Electrical system | 24V (Alternator 24 V, 95 Amp) |
| Sound level | Tier III: 116 dB(A) |

Weight

| | Metric | US |
|---------|-----------|-----------|
| Crawler | 13 500 kg | 29 760 lb |

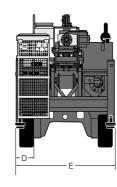
Selections of options

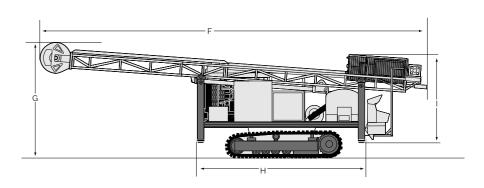
- Wireline cable, 5 mm x 1 850 m (0.19" x 6 069") or 6 mm x 1 500 m (0.23" x 4 921)

- Hydraulic mud mixerTrido water pumpElectric water flow meter
- Tool kit
- Heavy duty water flow meter kit
- Battery terminal for exportLevel wind

Working dimensions

| Dimension | Metric | US |
|-----------|-----------|------|
| A | 11 219 mm | 442* |
| В | 8 145 mm | 321* |
| С | 8 296 mm | 327 |





Transport dimensions

| Dimension | Metric | US |
|-----------|-----------|------|
| D | 450 mm | 18* |
| E | 2 500 mm | 98* |
| F | 11 242 mm | 443* |
| G | 3 199 mm | 126° |
| Н | 4 571 mm | 180° |
| 1 | 2 470 mm | 97" |

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United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward.

Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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