

Boyles C6/C6C

A versatile core drilling rig suitable for any job





Versatile drilling rigs for all conditions

The Boyles C6 and C6C surface core drilling rigs come in two different carrier versions: the Boyles C6 rig being trailer mounted and the Boyles C6C rig crawler mounted. Medium-sized, the drilling rigs are powerful and compact ready for the job at hand. Both models have a drill capacity of 1 200 meters (NO).

Main benefits

Versatility-Optimized for medium-depth drilling, the Boyles C6/C6C rig makes it possible for you to take on any exploration job.

Robust design-Designed for sturdiness and operation in harsh environments, the Boyles C6 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.





The Boyles C6C crawler rigs come with a radio remote control, which allows you to tram the rig from a distance providing a safer working environment.

Mast and feed system - sturdy and stable, ensuring minimal vibrations, straight bore holes and optimum lifting/holding capacity. Includes a rod kicker to facilitate threading, and a foldable mast to facilitate convenient transportation.

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.

closes using gas pressure. In case of



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.

Best in class

The well proven Boyles C6/C6C rigs are today drilling in many different project sites, confronting the most harsh conditions and environments. It offers suburb versatility in the surface core drilling segment for 1 200 meter N-size borehole depths. The rig's safety and ergonomic features provide confidence and assurance for drill rig operators.



+ Depth capacity

With a drill depth capacity of 1 200 meters N-size (3 937 ft), the Boyles C6/ C6C rig is the surface core drilling rig with the deepest drilling depth capacity in its drill class.



+ Ergonomics and safety

A user-friendly drilling rig that 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 fireextinguishers.



Productivity and lower operational costs

The parts and components that make up the drilling rig are of the highest guality and standard designed with durability in mind. The Boyles C6/C6C 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 C6/C6C

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.



Standard equipment

- 6m(20 ft) pull mast with 3.5m(11.5 ft) feed stroke
- · PO capacity drillhead with 2 gears and hydraulic chuck 1 set of NO jaws and bushing incl,
- Hydraulic mast dump
- Foldable mast
- Large crown sheave wheel
- Wear liners on lower mast
- Safety guards
- Hydraulic oil reservoir fill pump
- Hydraulic oil tank volume (300 liters)
- Diesel tank volume (200 liters)

Main hoist

	Metric	US
Single line capacity, bare drum	80 kN	18 000 lb
Line speed, bare drum	44 m/min	148 ft/min
Cable size	27 m x 16 mm	89' x 0.63"

Rod holder

Hydraulic open, gas spring closed - BO to PO rods/HW casing	Metric	US
Max diameter	210 mm	8.3*
Clamping diameter PO size rods	114.7 mm	4.5*
Clamping capacity	13 000 kg	2 900 lb

Clamping	ulameter PO size io	us	114.7 11111	4.0			
Clamping	capacity		13 000 kg	2 900 lb		Metric	US
					Feed travel	3.5 m	11.5
					Feed speeds	High and Low w	ith variable contro
Depth	capacity				Mast dump travel Trailer version	0.8 m	2.6
	Standard		Thin Wall		Mast dump travel Crawler version	0.8 m	2.6
	Metric	US	Metric	US	Thrust	59.6 kN	13 390 lb
В	1540 m	5 052	1 812 m	5 945	Pull	138 kN	31 020 lb
Ν	1200 m	3 936	1 412 m	4 631	Drilling angle	45° – 90°	
Н	800 m	2 624	941 m	3 086'	Rod pull length	6.09 m	20'
Ρ	475 m	1 158'	588 m	1929	Transportation mode	Foldable mast	

*The above drill depth capacities only serve as guidelines and refer to vertical down drilling. Epiroc cannot guarantee that these results can be achieved in all drilling conditions

Main hoist

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



- Control panel
- Gas cartridge type rod holder- PO size
- 4 hydraulic levelling jacks
- Towing package (C6)
- Hydraulic mast raise
- RPM meter
- Tachometer
- Lighting kit
- Crawler tracks (C6C)
- Wireline winch

Rotation unit

Power	Hydraulic motor - variable speed/ reversible
Final drive	Gear driven
Spindle (inner diameter)	124 mm (4.9°)
Max torque	6 550 Nm
Max speed	1 300 rpm
Gear change	Mechanical shift

Mast and feed system

Technical specifications

Drill base supports

Mount/base system	Trailer mounted rig with four wheels (215/75R17.5) and towing package
Support	4 hydraulic jack legs to adjust rig height
Pad diameter	Ø220 mm
Leg adjust range	550 mm (21.7°)
Crawler mounted rig on crawler tracks	Crawler mounted rig on crawler tracks
Crawler band width	300 mm (11.8°)
Crawler ground pressure	11 psi/74.5 kPa
Radio control tramming speed (max)	2.6 km/h

Chuck assembly

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

Trido

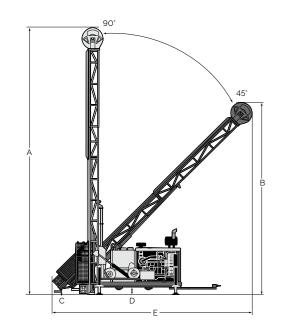
Trido 140H	Metric	US
Flow	140 l/min	37 gal/min
Pressure	70 bar	1 015 psi

Power unit

Manufacture	Cummins
Mode	QSB 6.7
Volume	6.7 liter, 6 cyl
Power	Tier 3: 153 kW (205 hp)
RPM	1800
Engine type	Diesel turbocharged/after cooled
Cooling system	Water
Electrical system	24V (Alternator 24 V, 95 Amp)
Sound level	Tier III: 116 dB(A)

*Above 3 000 m, High Altitude kit needed.

Boyles C6



Wireline hoist

Capacity	1500 m (4 921') of 6 mm (¼°) or 1800 m (5 906') of 5 mm (¾°)
Line pull	Bare drum: 9.0 kN (2 023 lb), full drum: 2.4 kN (540 lb)
Line speed	Bare drum: 138 m/min (453 ft/min), full drum: 533 m/min (1 749 ft/min)

Weight

•		
	Metric	US
Trailer	7 ton	14 000 lb
Crawler	9 ton	18 000 lb

Spindle data

Spindle	Ratio	Speed	Torque Metric	US
1st	17.55 : 1	90 – 200 rpm	6 550 - 3 000 Nm	4 793 – 2 212 lbf
2nd	2.70 : 1	595 – 1 300 rpm	1 030 - 470 Nm	960 - 347 lb

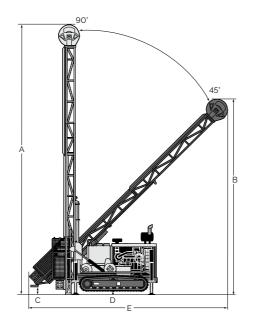
Hydraulic system

Primary pump	28 MPa, 242 l/min (4 060 psi, 64 gal/min)
Secondary pump	20 MPa, 122 L/min (2 901 psi, 32 gal/min)
Auxiliary pump	21.5 MPa, 47 l/min (3 118 psi, 12 gal/min)
Hydraulic oil cooling	Air

Selections of options

- Hydraulic mud mixer
- High altitude kit, to achieve Power Unit max capacity when drilling above 3 000m
 Trido water pump
- Wireline cable
- Water flow meter kit
- Battery terminal for export
 5 km/h High tramming speed option(C6C)

Boyles C6C

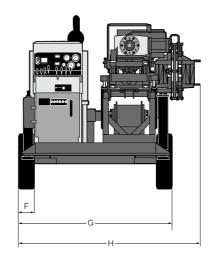


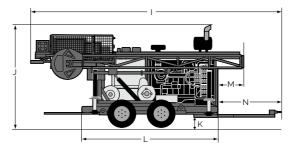
Technical specifications

Working dimensions

Dimension	Boyles C6		Boyles C6C	
	Metric	US	Metric	US
A	10 082 mm	397"	10 082 mm	397"
В	7 294 mm	287"	7 541 mm	297"
С	9.5 mm	0.4"	256.5 mm	10.1"
D	196.5 mm	7.7*	87 mm	3.4"
E	7 486 mm	295"	7 486 mm	295"

Boyles C6

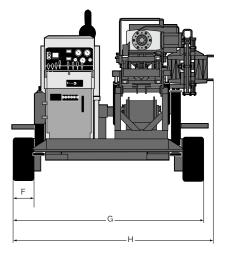


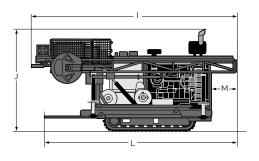


Transport dimensions

Dimension	Boyles C6		Boyles C6C	
	Metric	US	Metric	US
F	222 mm	8.7*	321 mm	12.6"
G	2 205 mm	87"	2 634 mm	104"
Н	2 602 mm	102"	2 817 mm	111"
I	6 525 mm	257"	5 302 mm	209"
J	2 625 mm	104"	2 555 mm	101"
К	379.5 mm	14.9*	-	-
L	3 400 mm	134"	4 905 mm	193"
М	705 mm	28'	705 mm	28"
Ν	1 927 mm	76"	-	-

Boyles C6C





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