

CORE DRILL RIG
MODEL - CD - 120



Core Drill - CD - 120 Technical Specifications

Depth capacity coring (Conventional and wireline)

B Wireline	1540 m (5052ft)
N Wireline	1200 m (3937ft)
H Wireline	800 m (2625ft)
P Wireline	450 m (1476ft)

Power Unit

Manufacturer	Cummins
Engine Type	Diesel Turbo Charged/aftercooled
Model	6CTA8.3L
Power	213 Hp (159 KW)
RPM	1800
Cooling system	Water
Emission	Non certified

Feed System

Feed travel	3.5m (11.5ft)
Pull up force	142, 2 KN (31900 lb)
Pull down force	59, 6 KN (13390 lb)
Feed speeds	Fast and slow with variable control

Mast System

Feed mechanism	Direct coupled cylinder
Mast type	Lateral steel welded structure, 2 Section mast
Length	9, 5 m (app), (31.2ft)
Drilling angle	45 to 90 degree
Mast Dump	1200 mm
Rod hosting length	6, 09 m (20 ft)

Rotation Head and spindle speeds

Power	Hydraulic variable speed motor forward/reverse
Final drive	Heavy duty Spur gears.
Range selection	Two speed High/low gear manual change
Spindle inside diameter	119 mm

Torque and Speed Ratings

Gear	Speed Rpm	Torque	
		Nm	(lbft)
Low Speed Gear	130 – 343	5523- 2108	(4074 - 1555)
High Speed Gear	456-1200	1578 - 602	(1164 - 444)

Main Winch

Hoisting Capacity	96.1 KN (21560 lb) (Bare drum)
Hoisting speed	40 m/min (131, 2 ft/min)
Cable diameter	19 mm (3/4" inch)
Cable length	35 m (145 ft)

Wire Line Winch

Hoisting Capacity	14.2 KN (3190 lb) (Bare drum)
Line speed	140 m /min (460 ft/min) (Bare drum)
Line speed	465 m/min (1525 ft/min) (Full drum)
Cable diameter	5 mm / 6 mm
Cable length	1850 m (6070 ft) / 1300 m (4265ft)

Chuck

Type	Spring Closed Hydraulic open.
Rod Size	B, N, H, P
Max inside Diameter	119 mm
Thrust Holding Capacity	19000 Kgs

Rod Holder

Type	Hydraulic operated
Jaw Size	B, N, H, P

Approximate Weight/Dimensions.

Bare Drill Rig without Carrier rested on Jack frame.

Weight	12000Kgs
Length	10000 mm/6200mm - long Mast In horizontal when rested And Straight/Mast folded condition.
Width	2400 mm.
Height	2500 mm. Without Carrier rested on Jack frame

OPTIONS

Speed indicator- RH

Rotation Gear box RPM Indicator	
Location	Located on control panel
Type	Digital LCD Display, with life time battery

Wire Ropes

Main winch	19 mm X 35 m long
Wire line	6 mm X 1300 m long

Mud Mixer

Hydraulically operated.

Water Pump

Type	Triplex Piston Pump
Power	Hydraulic operated
Max flow	140 LPM
Max pressure	6.895 MPa (1000 PSI)

Engine

Emission Norms	Tier III certified
Power	220HP(159KW)@2200Rpm

Tramming Controls

Crawler controls	Wireless Remote Control up to 20 m Distance
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Lighting & Horn

Beacon Flash Light, Drive lights for CAB. Horn & Reverse Horn

Track (Crawler) assembly

Grouser construction	Triple Grouser
Total length of track	3250 mm
Total width of track	2350 mm
Gradeability – degree	30
Travel speed-Kmph	2

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An ISO 9001 : 2008 Company

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