

Exploration Drill Masters Diamond Drill Rig

EDM 1200 STD

TRUCK MOUNTED/TRACK MOUNTED



Safety – Efficiency - Trust



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Diesel Engine

Cummins QSC-8.3P Tier 3
270HP@1800 rpm
Fully enclosed

Rotation Head Top Head Drive

Hollow Floating spindle ID: 70mm – 3 ½" API IF pin thread
Two speed, Low/High manual gear change
7700Lbft@188 rpm (Max. Break out torque)
1160Lbft@1250 rpm

Mast

Heavy Duty section mast structure
Capable of angles from vertical to 45°
2000mm mast dump

Head Traverse

Driven by one hydraulic cylinder, 2:1 rope system
Max speed up cylinder 623mm/sec, rope system 1246mm/sec
Max speed down cylinder 409mm/sec, rope system 818mm/sec
7.6m stroke with rotation head

Pull Down

13,000 Lbf

Pull Out

28,000 Lbf

Main Hoist

Mounted on top of mast (Type Braden CH230)
Max pull 23,000 Lbf
Max speed 75m/minute
Failsafe brake mechanism (spring applied, hydraulic release)
6 metre pull for diamond pipe and casing
Load sensing winch motor for optimum operating speed

Jib Boom

Actuated by hydraulic cylinder for raise/lower
Actuated by hydraulic hourglass worm for left/right
Independent winch with lifting capacity of 200kg

Water Pump

FMC (Bean) W1122BCD
140 LPM@7,000KPa
Powered from rig hydraulic system

Rod Break Out

48" Adjustable Stillson wrench hydraulic cylinder mounted for hydraulic break out
Diaspan wrap spanner for N+, H+ and P+ casing

Rod Spinner (Optional)

Chuck type floating Rod Spinner
2,200Lbft breaking torque
Adjustable torque control

Jack Leg

Heavy Duty cylinder with pilot check valves
Extra large pads for better ground stability

Rod Clamp and Slip Table

Hydraulic operated, self energising rod clamp
Easy to remove jaws
Common jaws from 44.5mm to 177.8mm (B+, N+, H+ and P+ casing)

Wire Line Winch Mounted on mast pivot plate

Capacity ¼" rope: 2000m
Max average pull from full to empty drum 3,680Lbf
Max average speed from full to empty drum 7m/sec
Automatic rope tracking device

Control Panel

Easy self explanatory layout
Easy access for basic maintenance and repairs
Fully sealed control panel with all electrical instrumentation

Mud Mixing Circuit

30 LPM pump independent from all other function, with flow control, and quick release connectors

Hydraulics

Danfoss pump & motors, Parker CVG main valve, Danfoss PVG32 auxiliary valves, Sun cartridge

Rod Spin Guard

Cage off the rotating rods from operator
Hydraulically interlocked with rotation
Reduces rotation speed to 150 rpm when cage is opened

Theoretical Rated Depth Capacity Diamond Coring Q Series

Pipe
B – 1500m
N – 1200m
H – 700m
P – 350m

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Theoretical Rated Depth Capacity Reverse Circulation Drilling

- 4" – Dual Wall RC pipe – 300m
- 4 ½" – Dual Wall RC pipe – 250m

Dimensions

- Platform Width 2,450mm
- Jack leg centres 4,000mm
- Mast Length 13,135mm
- Overall Height 4,100mm

Safety Features

- Guards on all rotating equipment
- Anti slip grid mesh on all work platforms
- Hand rails on all work platforms
- Emergency stops in control cabinet and on both sides of machine
- Rod spin guard with hydraulic interlock. Reduces rotation to 100 rpm when opened.
- Heat guards on all exhaust manifolds and piping
- Murphy shut down system which protects the following
- Low engine oil pressure
- High engine temperature
- Low hydraulic tank oil level and low coolant level
- 24 volt, 100amp alternator to enable high quality additional work lights
- Two certified 10kg fire extinguishers

Standard Features

- Easy accessible control panel for general maintenance
- Clear easy to read and self explanatory controls
- Warning horn to alert drill crew
- Central grease point for wireline and top sheave wheels
- Easy accessible oil drain station for engine, hydraulic tank, FMC pump
- Remote mounted oil and fuel filter station
- Fully sealed electrical panel
- Hydraulic test points on all pumps, motors, and spool banks
- Additional work light plug outlet station
- Lockable diesel tank fill points

- Battery isolation switch
- Fuel tank gauge
- Clearly labelled oil type and grades on all oil fill points
- Level bubbles mounted on platform and mast
- Tool box
- Two additional available spool banks, one with detent, one spring centre for additional mud mixing systems, casing jacks, etc
- All jaw sets from B+, N+, H+, P+.
- Stillson wrench for hydraulic break out, 48" inch
- 10m of 2 inch suction hose with foot valve and cam lock connectors
- First 250 and 500 hr service kit
- Flashing light, and standard mine site lighting
- Mast ladder
- Rig platform access ladders and steps
- Large fully adjustable offside platform
- EDM products are designed with standard imperial materials. All threads are either UNC or UNF. All hydraulic valves bodies, pumps, motors use common SAE O-ring boss adaptors

Warranty

1 Year / 5000 hrs

Optional Features

- Reverse circulation kit
- KL Rod loader for RC pipe only
- Additional sealed lockable Tool Box
- Additional work lights
- Hydraulic boost kit for high altitudes (Prevents hydraulic pump cavitation)
- Fully silenced, and enclosed engine for quite and cleaner machine
- 6 inch tradesmen vice
- 1500 hr service kit
- Remote spare parts kit
- Clients colour choice
- Fire suppression unit
- Chuck type rod spinner
- Extendable front jack legs for removing truck or crawler carrier.
- FMC L11-18SC Disc 65gpm high pressure water pump

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Carrier Options

- 6 x 6 Truck
- 6 x 4 Truck
- Track carrier

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