

Exploration Drill Masters Diamond Drill Rig

# EDM 1200 HC

TRUCK MOUNTED/TRACK MOUNTED



Safety – Efficiency - Trust

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### TRUCK MOUNTED/TRACK MOUNTED

#### Diesel Engine

Cummins QSC-8.3P Tier 3  
300HP@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

33,000 Lbf

#### Main Hoist

Mounted on top of mast (Type Braden RW300)  
Max pull 30,000 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 – 2000m  
N – 1650m  
H – 1100m  
P – 500m

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#### Theoretical Rated Depth Capacity Reverse Circulation Drilling

- 4" – Dual Wall RC pipe – 400m
- 4 ½" – Dual Wall RC pipe – 350m

#### 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, 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