

Exploration Drill Masters

Reverse Circulation Grade Control/Explorer Drill Rig

EDM 1200 HC RC

TRACK MOUNTED



Safety – Efficiency - Trust

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Diesel Engine

DDC/MTU 12V2000

850HP@1800 rpm

V-Pack Cooler pack 55 degree ambient

Sullair Compressor with Airdrill Clutch

1350cfm @500psi

Receiver Tank

Sullair 600psi

Rotation Head Top Head Drive

Hollow Spindle ID: 70mm – 3 1/2" API IF pin thread

8000Lbft (Max. Break out torque)

5-150 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 415mm/sec, rope system 830mm/sec

Max speed down cylinder 311mm/sec, rope system 622mm/sec

7.6m stroke with rotation head

Pull Down

17,500 Lbf

Pull Out

33,000 Lbf

Jib Boom

Actuated by hydraulic cylinder for raise/lower

Actuated by hydraulic hourglass worm for left/right

Independent winch with lifting capacity of 200kg

Camera Survey winch 300m 3/16" rope capacity

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

4-1/2" to 5" Diaspan certified wrap spanner

Metzke Makorbreak

Jack Leg

Heavy Duty cylinder with pilot check valves

Extra large pads for better ground stability

Slip Table - Metzke

Hydraulic operated table spanner

12" hydraulic opening with replaceable guides

Rod Bin

Capacity to carry 168m of 4-1/2" rods

Hydraulic Tilt rods right to present rods to rod handler

Single Rod Breaker (Type Airdrill, Optional)

3-1/2" to 5-1/2" jaws single clamp and rotate style

KL style rod handler (Optional)

Rod Handler (Schramm type 6 rod carousel)

Type Schramm, holds 6 x 4-1/2" RC rods

Control located on the drillers control panel

RC Accessories

Drillstar combo swivel with automatic blowdown/blowback,

500psi sample hose, 3" type boss fittings, 1500psi Aeroquip 1-

1/2" air hose, diverter box, sample hose support with brackets,

head inner tubes & adaptors

Sampling System (Type Sandvik) Dust Collector Type (Progradex)

RC involution cyclone

Interval drop box

Rota Port cone splitter

EF Diverter valve

Control Panel

Easy self explanatory layout

Easy access for basic maintenance and repairs

Fully sealed control panel with all electrical instrumentation

Hydraulics

Danfoss pump & motors, Parker main valve, Danfoss PVG32

auxiliary valves, Sun cartridge

Drivers Cabin

Adjustable seat with seat belt

Emergency stop button

Oil pressure, engine temperature gauges

Tramming controls

Mud Mixing Circuit

60 LPM pump independent from all other function, with flow

control, and quick release connectors

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Fire Suppression Type Afex (Optional)

- Two 30kg bottles
- Four remote mounted manual actuated buttons
- Eight individual spray nozzle manifolds

Theoretical Rated Depth Capacity Reverse Circulation Drilling

- 4" – Dual Wall RC pipe – 400m
- 4 ½" – Dual Wall RC pipe – 300m

Dimensions

- Platform Width 3600mm
- Jack leg centres 6500mm
- Mast Length 13500mm
- Overall Height 4200mm
- Weight: 42.000kg

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
- Heat guards on all exhaust manifolds and piping
- Murphy shut down system which protects the following
 - Low engine oil pressure, coolant level, compressor.
 - Temperature level
 - High engine temperature
 - Low hydraulic tank oil 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 swivel
- Easy accessible oil drain station for engine, hydraulic tank, FMC pump and Funk box
- 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
- Hammer oiler
- Hydraulic operated air on/off and vent valves
- 1500psi rated 2" air hose with certified hoses socks on all high pressure air lines
- 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
- Stillson wrench for hydraulic break out, 60" 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

- 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

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