

Exploration Drill Masters Multipurpose Drill Rig

# **EDM 2000 MP ON BOARD AIR COMPRESSOR TRUCK MOUNTED/TRACK MOUNTED**



**Safety – Efficiency - Trust**

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### Diesel Engine

DDC/MTU 12V2000 TA Tier II  
850HP@1800 rpm  
V-Pack Cooler pack 55 degree ambient

### Sullair Compressor with Airdrill Clutch

1350 cfm@500psi

### 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 447mm/sec, rope system 894mm/sec  
Max speed down cylinder 335mm/sec, rope system 670mm/sec  
7.6m stroke with rotation head

### Pull Down

17,500 Lbf

### Pull Out

60,000 Lbf

### Main Hoist

Mounted on top of mast (Type Braden RW500)  
Max pull 55,000 Lbf  
Max speed 75m/minute  
Failsafe brake mechanism (spring applied, hydraulic release)  
9 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 – 2800m  
N – 2500m  
H – 2000m  
P – 1200m

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### Theoretical Rated Depth Capacity Reverse Circulation Drilling

- 4" – Dual Wall RC pipe – 650m
- 4 ½" – Dual Wall RC pipe – 600m

### Tilting Rod Bin

Capacity of 28 x 4-1/2" RC

### Dimensions

Platform Width 2,500mm  
Jack leg centres 6,600mm  
Mast Length 12,135mm  
Overall Height 4,300mm

### 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
- 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

- 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

### Additions for RC Drilling Capacity

- Hammer oiler
- 28 x 4-1/2" drill pipe capacity hydraulic tilting rod bin
- Hydraulic operated air on/off and vent valves
- 1500psi rated 2" air hose with certified hoses socks on all high pressure air lines
- Drill star bottom swivel assembly
- Drill star top swivel assembly
- Inner tube & deflector box assembly
- 500psi rated 3" sample hose assembly with certified hose socks & hardened Boss hose tails
- Hydraulic operated adjustable rod kicker operated from foot pedal on drillers platform
- Hydraulic operated table spanner
- Rod spin guard assembly with hydraulic interlock
- Slips table assembly
- 1500psi valving for auxiliary compressor & booster connections
- Rod Handler

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### 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 deck for quite and cleaner machine
- 6 inch tradesmen vice
- Gas bottle mounts
- Hydraulic welder and generator package
- 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

### Carrier Options

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