



EDM 2000 TRACK MOUNT DATA SHEET

Exploration Drill Masters Chile S.A announces the release of the newly developed all terrain EDM 2000 dual purpose exploration drill. The EDM 2000 is a heavy duty drill rig which can be mounted on self propelled crawler tracks or mounted on a 6 x 6 / 6 x 4 truck. The EDM 2000 is versatile, simple to operate and maintain, and borrows many characteristics of a broad range of drill rigs on the market today which have never before been offered in one stand alone drill.

Diesel Engine

- Cummins QSM-11 Tier 3
- 400 HP @ 1,800 rpm
- Fully enclosed

Rotation Head Top Head Drive With Floating Spindle (Type EDM)

- Two speed top head drive with splined floating spindle
- Low / high manual gear change
- 5 – 150 rpm low gear, 150 – 1500 rpm high gear
- Hollow spindle ID: 70mm with 3-1/2" API IF pin thread

Torque and rpm ratings top head drive two speed gear box

- Maximum break out torque 8,800 ft.lbf
- 130 rpm - 8800 ft.lbf
- 1100 rpm - 1236 ft.lbf
- 1500 rpm - 956 ft.lbf

Telescopic Drill Mast

- Heavy duty two piece tubular section mast structure
- Capable of angles from vertical to 45°
- 2000mm mast dump
- Standard hydraulic mast raise cylinders with counter balance valves installed as standard for safety

Head Traverse

- Driven by one hydraulic cylinder through heavy duty 2:1 rope system
- Maximum speed up 830 mm/sec
- Maximum speed down 622 mm/sec
- Side racking rotation head to L/H side
- 7.6m Stroke with rotation head

Pull Down

- 78 kN (17,500lb)

Pull Out

- 178 kN (40,000lb)

Main Hoist, mounted on top of telescopic mast section (Type Braden)

- Maximum pull 40,000 lbf.
- Maximum speed 75 m/minute
- Failsafe brake mechanism (spring applied, hydraulic release)
- 9 metre pull for diamond pipe and casing
- Two speed selected from control panel

Jib Boom

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

Water Pump

- FMC (Bean) W1122BCD
- 140 L/minute @ 7,000 kPa
- Powered from the rig hydraulic system

Rod Break Out

48" Adjustable stillson wrench hydraulic cylinder mounted for hydraulic breakout capability.

Rod Spinner (Type EDM) (Optional)

- Chuck type floating rod spinner
- 8,000 ft.lbf breaking torque
- Adjustable torque control

Jack Legs

- Heavy duty cylinders with pilot check valves
- Extra large pads for better ground stability

Rod Clamps & Slips Table (Type UDR)

- Hydraulically operated, self energising rod clamp
- Easy to remove jaws
- Common jaws from 44.5mm to 177.8mm (B+, N+, H+, P+, HW)

Wire line Winch Mounted on mast pivot plate (type EDM)

- Capacity of 2200m of 8mm wire rope
- Maximum average pull from full to empty drum 3,680 lbf
- Maximum average speed from full to empty drum 7 m/sec
- Automatic rope tracking devise

Control Panel

- One meter Extendable control panel for better vision whilst angle drilling. Pivots from rear R/H to L/H side of machine. Operator stands approx 3.7m with control panel fully extended from the rear jack legs

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

Mud Mixing Circuit

- 60 LPM pump independent from all other functions, with flow control, and quick release connectors

Hydraulics

- Danfoss pumps & motors, Danfoss PVG120 main valves, Danfoss PVG32 auxiliary valves, Sun cartridges.

Rod Spin Guard

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

Theoretical Rated Depth Capacities Diamond Coring + Series Pipe

- B+ - 2800m
- N+ - 2000m
- H+ - 1500m
- P+ - 1100m

Theoretical Rated Depth Capacity Reverse Circulation Drilling

- 4" dual wall RC pipe – 400m
- 4-1/2" dual wall RC pipe – 350m

Dimensions

- Platform Width 2,450mm
- Track Width 2,600mm
- Jack leg centres 5,000mm
- Mast Length Extended 13,135mm
- Mast Length collapsed for travelling position 10,300mm
- Overall Height 4,100mm
- Weight with accessories 27,000kg

Tracks

- Type Strickland rated for 20,000kg

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
- Rod spin guard with hydraulic interlock. Reduces rotation to 100 rpm when opened
- Heat guards on all exhaust manifolds and piping
- Cummins shut down system which protects the following
 - Low engine oil pressure
 - High engine temperature
 - Low hydraulic tank oil level
 - Hydraulic boost pressure
- 24 Volt, 100 Amp alternator to enable high quality additional work lights

- Two certified 10 kg 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 station which covers all grease nipple points
- Easy accessible oil drain station for engine, hydraulic tank, FMC pump
- Remote mounted oil station for high pressure filters
- 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
- Tool box with all standard tools that are generally required for basic maintenance and servicing
- Two additional available spool banks, one with detent, one spring centre for additional mud mixing systems, casing jacks, etc
- Rig wash down gun, and hose which connects directly to water injection pump
- All jaw sets from B+, N+, H+, P+, HW.
- Stillson wrench for hydraulic break out, 48 inch
- 10m of 2 inch suction hose with foot valve and cam lock connectors
- First 250 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

Optional Features

- Reverse circulation kit
- Automatic running blowdown system
- KL Rod loader for RC pipe only (Sandvik)
- 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
- Enclosed operators cabin
- Chuck type rod spinner
- FMC L16 Disc 65 gpm high pressure water pump

Carrier Options

- 6 x 6 Truck

- 6 x 4 Truck
- Track carrier (powered from rig hydraulics)

