

Safety—Efficiency—Trust

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EDM 2000 SERIES DRILL

Track/Truck Mounted, Diamond/Multipurpose



Exploration Drill Masters Chile S.A.

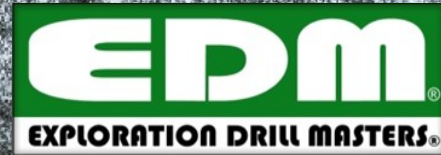
Av. Colorado 01200 Quilicura-Santiago – Chile

Phone: (0056-2) – 27390315, E-mail: info@explorationdrillmasters.com

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STANDARD ITEMS

Diesel Engine

Standard

Cummins QSM11 Tier III
400HP@1800 RPM

Optional

Cat C13 Tier 4
430HP @ 1800 RPM

Carrier

Truck Mount

8 x 4 or 8 x 8 Truck

Track Mount

Cat 330L
2.7 km/h (1.7 mph)
4.6 km/h (2.9 mph)

Rotation Head Top Drive

Standard 250cc/rev (15.25 in3/rev) Motor

Hollow Floating spindle ID: 70mm – 3 ½" API IF pin thread
Two speed, Low/High manual gear change
High Maximum displacement: 1856 lbft (2516 Nm) @800 rpm
High Minimum displacement: 1187 lbft (1610 Nm) @1252 rpm
Low Maximum displacement: 7737 lbft (10490Nm) @192 rpm
Low Minimum displacement: 4952 lbft (6713 Nm) @300 rpm

Optional 355cc/rev (21.7 in3/rev) Motor

Hollow Floating spindle ID: 70mm – 3 ½" API IF pin thread
Two speed, Low/High manual gear change
High Maximum displacement: 2635 lbft (3572 Nm) @564 rpm
High Minimum displacement: 1187 lbft (1610 Nm) @1252 rpm
Low Maximum displacement: 10986 lbft (14895 Nm) @135rpm
Low Minimum displacement: 4952 lbft (6713 Nm) @ 300 rpm

Mast

Heavy Duty section mast structure
Capable of angles from vertical to 45°
2000mm (6.6 ft)mast dump

Head Traverse

Driven by one hydraulic cylinder, 2:1 rope system
Traverse Up Speed 894mm/sec (2.9 ft/s)
Traverse Down Speed 670mm/sec (2.2 ft/s)
7.6m (25 ft)stroke with rotation head

Feed Capacity

Standard

Pull Down 77.8 kN (17500 lbf)
Pull Back 267 kN (60000 lbf)

Optional (High Capacity)

Pull Down 77.8 kN (17500 lbf)
Pull Back 311 kN (70000 lbf)

Main Hoist

Standard

Mounted on top of mast (Type Braden RW300)
Max pull 200kN (40,000 lbf)
Max speed 75m/minute (246 ft/min)
Failsafe brake mechanism (spring applied, hydraulic release)
9 metre (30 ft) pull for diamond pipe and casing
Load sensing winch motor for optimum operating speed
Winch limiter to prevent cable overrun

Optional High Capacity Main Hoist

Mounted on top of mast (Type Braden RW500)
Max pull 245 kN (55,000 lbf)
Max speed 60m/minute (197 ft/min)
Failsafe brake mechanism (spring applied, hydraulic release)
9 metre pull for diamond pipe and casing
Load sensing winch motor for optimum operating speed
Winch limiter to prevent cable overrun

Jib Boom (Optional)

Actuated by hydraulic cylinder for raise/lower
Actuated by hydraulic hourglass worm for left/right
Independent winch with lifting capacity of 200kg (440 lb)

Water Pump

Standard

FMC (Bean) W1122BCD
140 LPM@7000KPa
37GPM @ 1000PSI
Powered from rig hydraulic system

Optional

FMC (Bean) L1118DSC
246 LPM@13800KPa
65GPM @ 2000PSI
Powered from rig hydraulic system

Rod Break Out

Standard

EDM Rap spanner for N+, H+ and P+ casing
Spanner hydraulic cylinder mounted for hydraulic up down positioning on tool joints
16270Nm (12000 lbft) Breakout Torque.

Optional

Metzke Makeobreak Hydraulic breakout wrench
Spanner hydraulic cylinder mounted for hydraulic up down positioning on tool joints
10030 Nm (7400 lbft) Breakout Torque
50-140mm & 219mm (2"-5" & 8.5") Diameter Capacity

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Rod Spinner

Standard 4.5"

2980 Nm (2,200lbf) breaking torque

Adjustable torque control

B+ , N+ , H+ , P+ Capacity

Optional 5.5"

2980 Nm (2,200lbf) breaking torque

Adjustable torque control

N+ , H+ , P+ PWT Capacity

Jack Leg

Heavy Duty cylinder with pilot check and flow fuse safety 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+ P+ and PWT casing) (1.75" – 7")

Rod Spin Guard

Cage off the rotating rods from operator

Hydraulically interlocked with rotation

Reduces rotation speed to 150 rpm when cage is opened

Wire Line Winch Mounted on mast pivot plate

Standard

Capacity 6mm (¼") rope: 2600m (8530 ft)

Capacity 8mm (5/16") rope: 2200m (7220 ft)

Max average pull from full to empty drum 16.4kN (3,680 lbf)

Max average speed from full to empty drum 7m/s (23 ft/s)

Automatic rope tracking device

Wire line winch overrun limiter with wiper

Optional (High Capacity)

Capacity 6mm (¼") rope: 5000m (16400 ft)

Capacity 8mm (5/16") rope: 3000m (9840 ft)

Max average pull from full to empty drum 16.4kN (3,680 lbf)

Optional High Capacity Wire Line Winch cont.

Max average speed from full to empty drum 7m/s (23 ft/s)

Automatic rope tracking device

Wire line winch overrun limiter with wiper

Control Panel

Standard

Pivoting Control Cabinet off rear right corner of machine

Good visibility at all mast angles

Easy self explanatory layout

Easy access for basic maintenance and repairs

Folding drillers jump up stand and protective roof

Optional

Fully enclosed and Sealed operators cabin

Air-conditioned / heated cabin

Sliding entrance door

Pivoting Control Cabinet off rear right corner of machine

Easy access for basic maintenance and repairs

Fully sealed control panel with all electrical instrumentation

Mud Mixing Circuit

30 LPM (7.9 GPM) pump independent from all other function, with flow control, and quick release connectors

Hydraulics

Parker pumps , Rexroth motors, Parker CVG main valve, Danfoss PVG32 auxiliary valves, Sun cartridges.

Theoretical Rated Depth Capacity Diamond Coring Q Series

Main Hoist 40,000 Lb

Pullback:

B – 2700m (8860 ft)

N – 2100m (6890 ft)

H – 1400m (4590 ft)

P – 940m (3080 ft)

Main Hoist 40,000 Lb

Pullback:

B – 2700m (8860 ft)

N – 2100m (6890 ft)

H – 1400m (4590 ft)

P – 940m (3080 ft)

Theoretical Rated Depth Capacity RC

With 60000LB Pullback option

4" – Dual Wall RC pipe – 870m (2850 ft)

4 ½" – Dual Wall RC pipe – 630m (2065 ft)

With 70000LB Pullback option

4" – Dual Wall RC pipe – 1020m (3345 ft)

4 ½" – Dual Wall RC pipe – 740m (2425 ft)

Approximate Dimensions Depending on Configuration

Platform Width 2,500mm (8.2 ft)

Jack leg centres 5,500mm (18 ft)

Mast Length 12,135mm (39.8 ft)

Overall Height 4,500mm (14.8 ft)

Warranty

1 Year / 5000 hrs

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Safety Features

- Guards on all rotating equipment
- Anti slip surfaces 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
- High engine temperature
- Low hydraulic tank oil level, coolant level
- 24 volt, 100amp alternator to enable high quality additional work lights
- Two certified 10kg (22lb) 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 wire line and top sheave wheels
- Easy accessible oil drain stations for engine, hydraulic tank, FMC pump
- Fully sealed electrical panel
- Hydraulic test points on all pumps, motors, and spool banks
- Lockable diesel tank fill points & Battery isolation switch
- Fuel tank gauge
- Clearly labeled oil type and grades on all oil fill points
- Two additional available spool banks, one with detent, one spring centre for additional mud mixing systems, casing jacks
- All jaw sets from B+, N+, H+, P+.
- 10m (30 ft) of 2 inch suction hose with foot valve and cam lock connectors
- 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

Clients color choice
Fire suppression unit

MULTIPURPOSE OPTION

Standard Rod Handler EDM/KL Style RC 6m Rod Handler

Direct hydraulic actuation from rod handler console
Remote control option
4" , 4.5" Diameter (Optional 5.5") Rod Handling Capability

Optional Multipurpose Handler

Holds cups to handle N+,H+,P+ , 5.5" diamond and RC pipe

Hammer Lubricator

60 Liter (15 .8 Gal) lubrication tank
Air operated pump
On/Off and flow control from control cabinet

Rod Breaker

Standard

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

Optional

Dual Airdrill Rod breakout
Airdrill 3-1/2" to 5-1/2" jaws single clamp and rotate style
Airdrill 3-1/2" to 5-1/2" jaws single clamp fixed breaker

Slips Table

Standard

Interchangeable table assemblies for RC and Diamond
RC table has full set of drop in slips from 10" to 4" including hydraulic RC table Spanner
Max opening 12"
Diamond table has foot clamp assembly for diamond drilling.

Optional

Hydraulically opening multipurpose Slips table including RC Table Spanner
Hydraulically opens both front and rear
Interchangeable slips bowls form 12" – 4"
Max opening 20"
Foot clamps designed to drop into slips table for diamond drilling

Air Circuit

Rig Air circuit with 2 Auxiliary inlets
2" Airline from Inlet to Swivel
Hydraulically actuated 2" Ball valves for air On/Off and Air Vent
100Psi Pressure reducer for service Air
Water injection into Air circuit

Cyclone

EDM Cyclone mounted to rear left Jack leg
Hydraulic Up/Down
Butterfly Valve for sample control
Pivoted behind Rig for transport

RC Drilling Accessories

Bottom side entry air swivel
Top mounted sample Swivel
Head tube
Blow down and Blowback valve if Required

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