

Safety—Efficiency—Trust

www.explorationdrillmasters.com



EDM 1200 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 QSC 8.3 Tier III
290HP@ 2100 RPM

Optional

Cummins QSB 6.7 Tier 4
300HP@ 2300 RPM

Carrier

Truck Mount

6 x 4 or 6 x 6 Truck

Track Mount

Strickland 385 L Two Speed Tracks

1.6Kph (1 mph)

3.6 Kph (2 mph)

Rotation Head Top Drive

Standard 160cc/rev (9.77 in3/rev) Motor

Hollow Floating spindle ID: 70mm – 3 ½" API IF pin thread

Two speed, Low/High manual gear change

High Maximum displacement: 1188 lbft (1610 Nm) @817 rpm

High Minimum displacement: 772 lbft (1047Nm) @1252 rpm

Low Maximum displacement: 4952 lbft (6713 Nm) @196 rpm

Low Minimum displacement: 3219 lbft (4364 Nm) @300 rpm

Optional 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) @523 rpm

High Minimum displacement: 772 lbft (1047 Nm) @1252 rpm

Low Maximum displacement: 7737 lbft (10490 Nm) @125rpm

Low Minimum displacement: 3219 lbft (4364 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 830mm/sec (2.72 ft/s)

Traverse Down Speed 550mm/sec (1.8 ft/s)

7.6m (25ft) stroke with rotation head

Feed Capacity

Standard

Pull Down 77.8kN (17500lbf)

Pull Back 156kN (35000lbf)

Optional (High Capacity)

Pull Down 77.8kN (17500lbf)

Pull Back 209kN (47000lbf)

Main Hoist

Standard

Mounted on top of mast (Type Braden RW300)

Max pull 147kN (33,000 lbf)

Max speed 75m/minute (246 ft/min)

Failsafe brake mechanism (spring applied, hydraulic release)

6 metre (20 ft)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

FMC (Bean) W1122BCD

140 LPM@7000KPa

37GPM @ 1000PSI

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

Jack Leg

Heavy Duty cylinder with pilot check and flow fuse safety valves

Extra large pads for better ground stability

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Rod Spinner

Standard 4.5"

2980 Nm (2,200lbft) breaking torque

Adjustable torque control

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

Optional 5.5"

2980 Nm (2,200lbft) breaking torque

Adjustable torque control

N+ , H+ , P+ PWT Capacity

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

Capacity 6mm (¼") rope: 2000m (6560 ft)

Capacity 8mm (5/16") rope: 1400m (4590 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

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

Hydraulics

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

Theoretical Rated Depth Capacity Diamond Core

Main Hoist 147kN (33,000 Lb)

B – 2200m (7220 ft)

N – 1750m (5740 ft)

H – 1170m (3840 ft)

P – 770m (2525 ft)

Theoretical Rated Depth Capacity RC

With 33000LB Pullback option

4" – Dual Wall RC pipe – 480m (1575 ft)

4 ½" – Dual Wall RC pipe – 350m (1150 ft)

With 47000LB Pullback option

4" – Dual Wall RC pipe – 685m (2245 ft)

4 ½" – Dual Wall RC pipe – 500m (1640 ft)

Dimensions

Platform Width 2,500mm (8.2 ft)

Jack leg centres 5,500mm (18 ft)

Mast Length 10,100mm (33.1 ft)

Overall Height 4,300mm (14.1 ft)

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
- 12 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

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Standard Features cont.

- 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
- Lockable 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
- 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 adapters

Optional Features

- Clients color choice
- Fire suppression unit

MULTIPURPOSE OPTION

Rod Handler

Standard

EDM/KL Style RC Rod Handler

Handle 6m pipe lengths

Direct hydraulic actuation from rod handler console

Remote control option

4" , 4.5" and 5.5" Diameter Rod Handling Capability

Optional

EDM/KL Multipurpose Rod Handler

Handle 6m pipe lengths

Direct hydraulic actuation from rod handler console

Remote control option

Full set of jaws and cups to handle N+,H+,P+ , 5.5" diamond and RC pipe

Hammer Lubricator

60 Liter 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

Interchangeable table assemblies for RC and Diamond drilling

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.

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

Warranty

1 Year / 5000 hrs

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