

Safety—Efficiency—Trust

www.explorationdrillmasters.com



EDM HRX 40

Track Mounted, Reverse Circulation Horizontal Drill Rig



Exploration Drill Masters Chile S.A.

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STANDARD ITEMS

Diesel Engine

Cummins QSB 6.7
265HP@2100 rpm
Tier 4 Option Available

Rotation Head Top Head Drive

Hollow Spindle ID: 70mm – 3 ½" API IF pin thread
12880 Nm (9,500 lbft) Max. Break out torque
5-85 rpm

Mast

Heavy Duty section mast structure
Capable of angles from 3° up to 3° down
Standard hydraulic mast raise cylinder with counter balance valves installed as standard for safety
Two hydraulically extendable mast feet to support the mast against the wall.

Head Traverse

Driven by one hydraulic cylinder, 2:1 rope system
Traverse speed out of hole 830mm/sec (2.72 ft/s)
Traverse speed in to hole 622mm/sec (2.04 ft/s)
6.6m (21.6 ft) stroke with rotation head

Pull Down

209kN (47,000 lbf)

Hold Back

209kN (47,000 lbf)

Water Pump

FMC (Bean) W1122BCD
140 LPM@7,000KPa
37GPM @ 1000psi
Powered from rig hydraulic system

Rod Breakouts

Single Rod Breaker (Airdrill)

3-1/2" to 5-1/2" rotating top breaker

Hydraulic RC Spanner

Hydraulically operated RC spanner.

Metzke Makeorbreak

Hydraulic breakout wrench
Spanner hydraulic cylinder mounted for hydraulic up down positioning on tool joints
20000Nm (15000Lbft) Breakout Torque
50-140mm & 219mm (2"-5" & 8.5") Diameter Capacity

Jack Leg

Heavy Duty Bolted Power Packer Jacks
Extra large pads for better ground stability

Rod Handler

Type EDM Capable of handling 3" – 10" rods and casing
Designed to work with track mounted EDM rod presenter
Rod presenter has 500m (1640ft) of 4.5" pipe capacity
Completely hands free system

Rear Mounted Crane

Mounted on end of mast for general use
Max capacity 600kg @ 4.2m (1320 lb @ 13.8ft)
Remote controlled with manual backup

Air Circuit

Rig Air circuit with Auxiliary inlet
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

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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Control Cabin

Easy self explanatory layout
Easy access for basic maintenance and repairs
Fully sealed control panel with all electrical instrumentation
Fully enclosed air conditioned cabin
Large angled windows for clear vision
Cameras for good vision of all critical areas
Adjustable seat with seat belt
Tramming controls

Hydraulics

Parker pump & motors, Parker 220 main valve, Danfoss PVG32 auxiliary valves, Sun cartridge

Theoretical Rated Depth Capacity Reverse Circulation Drilling

4" – Dual Wall RC pipe – 400m (1312 ft)
4 ½" – Dual Wall RC pipe – 350m (1150 ft)

Dimensions

Platform Width 4850mm (15.9ft) Working ,
3850 (12.6ft) Transport
Mast Length 11800mm (38.7ft)
Overall Height 3500mm (11.5ft)
Weight: 30.000kg (66000 lb)

Tracks

•Strickland 385 series

- 40t static load
- New frame assemblies
- Two speed motors
- 3.5kph (2.2 mph) max tramming speed

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
- 12 volt, 100amp alternator to enable high quality additional work lights
- Two certified 10kg (22 lb) 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
- Easy accessible oil drain station for engine, hydraulic tank, and FMC pump
- 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
- Two additional available spool banks, one with detent, one spring centre for additional mud mixing systems, casing jacks, etc
- 10m (30 ft) of 2 inch suction hose with foot valve and cam lock connectors
- Flashing light, and standard mine site lighting
- Rig platform access ladders and steps
- 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

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