

**Exploration Drill Masters**  
Horizontal Reverse Circulation Drill Rig

# **EDM HXR 40**

## **TRACK MOUNTED**



**Safety – Efficiency - Trust**

# Exploration Drill Masters

## Horizontal Reverse Circulation Drill Rig

# EDM HXR 40

## TRACK MOUNTED

The EDM HXR40 has been designed specifically for in pit dewatering holes , and conforms to all standard mandatory mine site safety standards and regulations . The HXR 40 can be operated by one person if required and all rod handling and loading is a 100% hands free operation.

### Diesel Engine

Cummins QSB 6.7  
265HP@2100 rpm  
Fully enclose unit

### Rotation Head Top Head Drive

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

### Mast

Heavy Duty section mast structure  
Capable of angles from 7° up to 2° 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  
Max speed up cylinder 415mm/sec, rope system 830mm/sec  
Max speed down cylinder 311mm/sec, rope system 622mm/sec  
7.6m stroke with rotation head

### Pull Down

17,000 Lbf

### Pull Out

40,000 Lbf

### Water Pump

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

### Rod Break Out (Metzke)

Metzke Makor / Break wrench hydraulic cylinder mounted for hydraulic breakout capability

### Dual Rod Breaker (Airdrill)

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

### Hydraulic RC Spanner

Hydraulically operated RC spanner.

### Jack Leg

Heavy Duty cylinder with pilot check valves  
Extra large pads for better ground stability

### Slip Table - Metzke

Hydraulic operated table spanner  
12" hydraulic opening with replaceable guides

### Rod Handler

Type EDM Capable of handling 4-1/2" – 10" rods and casing  
EDM Rod rack and presenter capable of holding 5 Rods

### Rear Mounted Crane

Mounted on end of mast for loading/unloading of rod rack from/to support vehicle or rod racks  
Jaws capable of holding 3" – 5" rods  
Max capacity 350kg @ 4.2m  
Remote controlled with manual backup

### RC Accessories

Drillstar top and bottom independent swivel, 500psi sample hose, 3" type boss fittings, 1500psi Aeroquip 2" air hose, diverter box, sample hose support with brackets, head inner tubes & adaptors  
Connection for external compressor  
Optional Blowdown

### Control Panel

Easy self explanatory layout  
Easy access for basic maintenance and repairs  
Fully sealed control panel with all electrical instrumentation  
Semi enclosed operators panel

### Hydraulics

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

### Drivers Cabin

Adjustable seat with seat belt  
Emergency stop button  
Oil pressure, engine temperature gauges  
Tramming controls

# Exploration Drill Masters

## Reverse Circulation /Explorer Drill Rig

# EDM HRX 40

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### Theoretical Rated Depth Capacity Reverse Circulation Drilling

- 4" – Dual Wall RC pipe – 400m
- 4 ½" – Dual Wall RC pipe – 350m

### Dimensions

- Platform Width 4400mm Working, 3000 Transport
- Jack leg centres 5600mm
- Mast Length 14500mm
- Overall Height 4000mm
- Weight: 30.000kg

### Tracks (Strickland 385 series)

- 40t static load
- New frame assemblies
- Two speed motors
- 3.5kph 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
- 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
- Easy accessible oil drain station for engine, hydraulic tank, FMC pump and
- 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 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