



The EDM HXR 40 is a heavy duty and powerful horizontal drill rig that is track mounted and configured for reverse circulation.

The EDM HXR 40 is versatile and simple to operate and maintain.

The rig can push and pull 210 kN (47.000 lbf) and can easily produce 400 m (1312 ft) holes using $4\frac{1}{2}$ " Reverse Circulation Drill Pipe.

The mast is fitted with a rod handler that is capable of presenting $4\frac{1}{2}$ " - 10" diameter and up to 200 kg (440 lbs) drill pipe to and from the rotation head.

When combined with the EDM Horizontal Presenter the EDM HXR 40 is hands free for its entire depth capacity. The drill has been fitted with the latest in hands free operation equipment including Metzke powered slips table and Metzke and Airdrill make and breakers setting the standard for world class performance and safety.

Technical Specifications

Diesel Engine

Cummins QSB 6.7 Tier IV

265 hp @ 2100 rpm

Tier III options available on request

Tracks

Crawler Strickland (or equivalent) DL385, 40T Two speed motors: low 1,3 km/h, high 3,5 km/h.

Drill Mast

Heavy Duty tubular section mast structure Capable of angles from horizontal to +6° & -3°

Standard hydraulic mast raise cylinders with counter balance valves

Two hydraulically extendable mast feet to support the mast against the wall

Rotation Head Top Drive Floating Spindle

Floating Spindle ID: 70 mm – 3½" API IF pin Revolutions 5 - 85 rpm

Torque maximum 12,88 kNm (9.500 lbft)

Head Traverse

Driven by one hydraulic cylinder, 2:1 rope system
Up Speed 830 mm/s (2,72 ft/s)
Down Speed 616 mm/s (2,02 ft/s)

Stroke with rotation head 6,6m (25 ft)

Feed Capacity

Pull Down 209 kN (47.000 lbf)
Pull Back 209 kN (47.000 lbf)

Control Panel

Cabin FOPS with good visibility at all mast angles.

(Fully Enclosed Cabin- Optional)

Cameras for critical areas and blind spots.

Easy self explanatory layout

Easy access for basic maintenance and repairs

Fully sealed control panel with all electrical instrumentation.

Hydraulic System

Parker pumps & motors, Parker CVG main valve, Danfoss PVG auxiliary valves, Sun cartridges.

Water Pump

FMC (Bean) W1122BCD 140 l/min @ 7.000 kPa 37 gal/min @ 1.000 psi

Powered from rig hydraulic system

Rod Break Out

Metzke Makorbreak Hydraulic breakout wrench.

Adjustable height (Optional)

Air Drill single rod breaker up to 51/2" capacity

Rod Handler

EDM Rod Handler Capable of handling $4\frac{1}{2}$ " to 10". EDM Rod rack and presenter capable of holding 5 Rods Crane for loading/unloading with jaws capable of holding 3" - 5" rods

Max capacity 350 kg @ 4,2 m Remote controlled with manual backup

Jack Legs

Heavy duty jack legs cylinders with pilot check valves and flow fuses for safety

Extra large pads for better ground stability

Theoretical Rated Depth Capacity

Dual Wall RC 4" pipe 450 m <u>Dual Wall RC 4½" pipe</u> 400 m

(Hole and ground conditions may provide for deeper hole capacity)

Dimensions

Platform Width working 4.850 mm
Platform Width transport 3.000 mm
Mast length 11.800 mm
Overall height 3.500 mm
Approx. weight: 30.000 kg

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

High engine temperature Low hydraulic tank oil level

12 volt, 100amp alternator LED high quality work lights Standard mine site lighting

RC Drilling Kit.

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

100 psi Pressure reducer for service Air

Water injection into Air circuit

EDM Cyclone

Bottom side entry air swivel Top mounted sample Swivel lubrication tank 60 Litre (15,8 gal)

Hydraulic operated air on/off and vent valves

1.500 psi rated 2" air hose with certified hoses socks 500 psi rated 3" sample hose assembly with certified hose socks.

EDM Rod Presenter (optional)

Capacity to transport 500 m 4½" RC Strickland tracks DL385 , 40T

Two speed, low 1,3 km/h, high 3,5km/h.

Heavy duty Jack cylinders with pilot check valves and flow fuses for safety

Rig performance is directly related to conditions encountered in the field.

Contact an Exploration Drill Masters representative for detailed product information.

