

EDM 67K RC Drill

Truck / Track Mounted Drill Rig



The EDM67K-RC Drill is a heavy duty dedicated reverse-circulation machine with a proven track record for deep exploration projects in challenging environments. The rig has 67,000lbs pullback capacity, can be truck or track mounted and comes with all the safety features required for working on Tier 1 mine sites.

With track or truck mounting options, multiple engines available, a powerful top drive rotation head, hands- free dual rod breakers, onboard RC rod handler and rod bin, and various sampling systems available, the EDM67K-RC drill is supplied ready to drill in any configuration that suits your specific projects.

Designed to give unparalleled reliability and productivity, the EDM67K-RC rig delivers maximum meters drilled in the toughest environments while maintaining the highest levels of operational safety.

Technical Specifications

Diesel Engine Options

Caterpillar/Cummins engines from 700HP to 950HP.
Tier 2, Tier 3, Tier 4/Stage 5 emissions engines available

Compressor Options (Subject to engine choice)

Sullair 20/12 Two-stage rotary screw compressor with manually operated clutch to engage and disengage.
Max 1350CFM / 500PSI

Cooler Pack Options (Subject to engine choice)

Vee Pack Allied Heat Cooler assembly, 55°C ambient temp, provide engine, compressor, hydraulic oil, fuel, rotation head cooling.

Truck Options (subject to rig configuration)

Rig mounted on 8x4/8x8 truck
Rig can also be mounted on customers own truck if required.

Crawler Options (subject to rig configuration)

CAT C330 L Tracks
Hitachi EX400 Tracks with Komatsu running gear.
On board tramming cabin and/or Radio Remote Control tramming included

Drill Mast

Heavy duty two piece tubular section mast structure
Capable of angles from vertical to 45°
2.000 mm (6,6 ft) mast dump
Standard hydraulic mast raise cylinders with counter balance valves installed as standard for safety

Rotation Top Drive Head

Hollow floating spindle ID; 70mm with 3 1/2" API IF pin thread
Single speed top head drive with floating spindle
5-150 rpm
Maximum break out torque 12,500 ft-lb

Head Traverse

Driven by one hydraulic cylinder through heavy duty 2:1 rope system
Maximum speed up 830 mm/s (2.72 ft/s)
Maximum speed down 622 mm/s (2.04 ft/s)
Side racking rotation head to L/H side
7,6 m (25 ft) Stroke with rotation head

Capacity

Pulldown 78 kN (17.500 Lbf)
Pullback 298 kN (67.000 Lbf)

Drillers Control Console Options

Standard hydraulically deployable control console with drillers platform and overhead protection. Stows behind rig for transport.
Sealed 2 person FOPs rated operators control Cabin, hydraulically deployable up to 5m away from the drill. Climatized with AC/heating
EDM **Xcs** (e**X**ploration **c**ontrol **s**ystem), a fully **EoH** system, controlled by PLC allowing the driller to view all drilling parameters and data with a touch screen interface. This data can also be remotely monitored and downloaded as required.

Hydraulic System

Danfoss pumps and motors
Parker CVG main valves
Danfoss PVG32 auxiliary valves
Sun cartridges

Water Pump

American (Bean) AW1122BCD
140 l/min @ 7.000 kPa
(37 gal/min @ 1.000 psi)

Rod Breakout Wrench Options

Metzke Makorbreak LD Hydraulic Wrench with hydraulic vertical movement. 10,030Nm of breakout torque, 40-140mm and 219mm diameter capacity

Metzke Makorbreak MD Hydraulic Wrench with hydraulic vertical movement. 20,000Nm of breakout torque, 40-140mm and 219mm diameter capacity

Hands-free Dual Breaker Options

Metzke **MB550** hands-free dual breakers for making/breaking rods, 90-140mm gripping range, 21,000Nm of torque.
Metzke **MB850** hands-free dual breakers for making/breaking rods, 90-204mm gripping range, 35,000Nm of torque.

RC Slips Table

Hydraulic double acting RC Table with 4.5" slips
Hydraulically operated RC table spanner
Max table opening 304mm (12")

Jib Boom -Optional

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

EDM RC Rod Handler Options

EDM Hands-free RC Rod Handler mounted on rig. Handles 4.5" diameter RC rods 6m long, 200kg lifting capacity.

EDM **Heavy Duty** Hands-free RC Rod Handler mounted on rig. Handles 4.5" – 6" diameter RC rods, 6m long, 400kg lifting capacity.

RC Rod Handler is mounted on the right side of the mast and work in conjunction with on-board tilting rod bin and/or separate rod trucks/sloops. Hydraulically controlled from Rod Handler console or by Radio remote operation

Rod Spin Guard

Cage off the rotating rods from operator/helper
Hydraulically interlocked with rotation

Theoretical rated RC depth on a vertical and clean hole with a 45% capacity allowance

4 1/2" dual wall RC pipe 520 m (1.705 ft)

Sampling Systems

Cyclone and Splitter mounted on swing out arm with hydraulic vertical movement and stows behind the rig for transport.
Sampler systems include; EDM Basic Cyclone and wet splitter, OX Engineering, Sanvick, Metzke and Progadex.

Dimensions (Subject to configuration)

Platform Width: 3.000 mm (9 ft 10 in)
Rig Overall Length: 12.135 mm (39 ft 10 in)
Height: 4.600 mm (5 ft 1 in)
Approx. Weight: 42.000 kg (92.595 lb)

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 cabin and on all corners of machine
Rod spin guard with hydraulic interlock.
Reduces rotation to 150 rpm when opened.
Heat guards on all exhaust manifolds and piping
Shut down system which protects the following
Low engine oil pressure
High engine temperature
Low hydraulic tank oil level, low coolant level

Warranty

6 Months or 1500 hrs Diesel engine

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

Please contact an Exploration Drill Masters representative for detailed product information.