

EDM 95K Series Drill

Diamond / Multipurpose Truck / Track Mounted Drill Rig



The EDM95K is a heavy duty drill rig with diamond or multipurpose configurations. It can be mounted on self propelled crawler.

The EDM95K is versatile and simple to operate and maintain.

The EDM95K borrows many characteristics of a broad range of drill rigs on the market today which have never before been offered in one stand alone drill.

EDM is proud to now offer an incorporated fully enclosed operator's cabin as an option, encapsulating the operators of the drill protecting them from the elements and hazards of the table.

A popular option for the multipurpose configuration is the EDM RC Rod Handler for hands free handling of Dual Wall RC Pipe up to 5½" and 200 kg (440 lbs) - (Optional Heavy version of RC Handler for up to 6 5/8" OD and 400 kg (882 lbs).

The drill has been fitted with most modern make and break tools from Metzke, Airdrill etc for world class performance and safety.

Technical Specifications

Diesel Engine

CAT C18 Tier IV Acert, 800 hp (597kW) @ 1.800 rpm
DDC/MTU 12V-2000TA, 760 hp (567kW) @ 1.800 rpm
Cummins QSK-19 Tier III, 755 hp (563kW) @ 1.800 rpm

Truck -Optional

Eight-wheel drive, often notated as 8WD or 8x8,
or 8x4 truck

Crawler -Optional

CAT330 L
2.7kph (1.7mph) Low Speed , 4.6kph (2.9mph) High Speed
Remote control for tramping
Caterpillar final drives & motors reconditioned

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: 114.3 mm – 5 1/2" API IF Pin thread
Two speed, Low/High manual gear change
Low gear Max. displacement 16.758 Nm (12.360 lbft) @135 rpm
Low gear Min. displacement 7.553 Nm (5.571 lbft) @ 300 rpm
High gear Max. displacement 4.018 Nm (2.964 lbft) @ 564 rpm
High gear Min. displacement 1.811 Nm (1.336 lbft) @ 1.250 rpm

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 100 kN (22.500 Lbf)
Pullback 423 kN (95.000 Lbf)

Main Winch

Mounted on top of mast (Type Braden HD80C)
Max pull 245 kN (55.000 lbf)
Max speed 60 m/min (180 ft/min)
Failsafe brake mechanism (spring applied, hydraulic release)
9 m (29,53 ft) pull for diamond pipe and casing
Winch limiter system to prevent rod being pulled into drum

Wire Line Winch Mounted on Mast Dump Plate

Capacity of 3.000 m (9.850 ft) of 8 mm (5/16") wire rope
Max average pull from full to empty drum 15,95 kN (3.586 Lbf)
Max average speed from full to empty drum 9,1 m/s (29,9 ft/s)
Automatic rope spooling device
Wireline override to prevent overshot being pulled over mast.

Control Cabinet

Pivoting Control Cabinet off rear right corner of machine
Good visibility at all mast angles
Folding drillers jump up stand and protective roof
Slews behind for transport
Easy self explanatory layout
Easy access for basic maintenance and repairs
Fully sealed control panel with all electrical instrumentation.

Hydraulic System

Parker pumps
Rexroth motors
Parker CVG main valves
Danfoss PVG32 auxilliary valves
Sun cartridges

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

**Please contact an Exploration Drill Masters
Representative for detailed product information**

Water Pump

FMC (Bean) L1118DSC
246 l/min @ 13.800 kPa
65 gal/min @ 2.000 PSI

Rod Break Out

Hydraulic cylinder mounted EDM Rap Spanner for N+, H+, P+
and casing
Metzke Makorbreak Hydraulic breakout wrench.
Adjustable height (optional)
Air drill Rotating rod breaker up to 5 1/2" capacity (optional)

Rod Clamps & Slip Table

Maximum table opening of 508 mm (20")
Hydraulically operated, self energizing rod clamp (UDR Type)
Easy to remove jaws
Common jaws (B+, N+, H+ and P+ casing)

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)

Rod Handler -Optional

Direct hydraulic actuation from rod handler console
Remote control
Handling Capability for rods 4" & 4 1/2"(optional 5 1/2")

Rod Spinner

Hydraulic slew in/out of mast
Self adjusting jaws ranging from N+ to PWT
2,98 kNm (2.200 Lbft) breaking torque
Adjustable torque control

Rod Spin Guard

Cage off the rotating rods from operator/helper
Hydraulically interlocked with rotation
Can be set to either reduce rotation speed to 150 rpm or
a complete stop when cage is opened

Theoretical rated diamond core depth on a vertical, clean and dry hole with a 10% capacity allowance

N+	3.360 m (11.023 ft)
H+	3.050 m (10.006 ft)
P+	2.000 m (6.562 ft)

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

4 1/2" dual wall RC pipe	737 m (2.417 ft)
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Dimensions

Platform Width:	3.000 mm (7 ft 6 in)
Overall Length:	12.000 mm (39 ft 6 in)
Height:	4.300 mm (8 ft 6 in)
Mast length:	12.135 mm (39 ft 8 in)
Jack leg centres	6.000 mm
Approx. Weight:	40.000 kg (50.700 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
Hydraulic Rod Spinner
Winch Limiter
Wire line winch limiter

Warranty

6 Months or 1500 hrs Diesel engine