

EDM 67K Series Drill

Diamond / Multipurpose, Truck / Track Mounted Drill Rig



The EDM 67K is a heavy duty drill rig with diamond or multipurpose configurations, truck or track mounted. The EDM 67K is versatile and simple to operate and maintain. The EDM 67K 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. 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). The drill has been fitted with most of the modern make and break tools from Metzke, Airdrill etc for world class performance and safety.

Technical Specifications

Diesel Engine

Cummins QSM11 Tier III
400HP@1.800 RPM
Tier IV options available on request

Truck -Optional

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

Crawler -Optional

CAT330 L
Remote control for tramming
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: 70 mm – 3 1/2" API IF pin thread
Two speed, Low/High manual gear change
Low gear Max. displacement 10.490 Nm (7.737 Lbft) @ 192 rpm
Low gear Min. displacement 6.713 Nm (4.952 Lbft) @ 300 rpm
High gear Max. displacement 2.516 Nm (1.856 Lbft) @ 800 rpm
High gear Min. displacement 1.609 Nm (1.188 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 78 kN (17.500 Lbf)
Pullback 298 kN (67.000 Lbf)

Main Winch

Mounted on top of mast (Type Braden RW300)
Max pull 178 kN (40.000 Lbf)
Max speed 75 m/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 2.600 m (8.530 ft) of 6 mm (1/4") wire rope
Max average pull from full to empty drum 16,4 kN (3.680 Lbf)
Max average speed from full to empty drum 7 m/s (23 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

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

Water Pump

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

Rod Break Out

Hydraulic cylinder mounted EDM wrap 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 304 mm (12")
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)

EDM RC 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 (11.024 ft)
H+	2.378 m (7.803 ft)
P+	1.572 m (5.157 ft)

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)
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Dimensions

Platform Width:	3.000 mm (7 ft 6 in)
Overall Length:	12.000 mm (39 ft 6 in)
Height:	4.600 mm (15 ft 1 in)
Mast length:	12.135 mm (39 ft 8 in)
Jack leg centres	6.500 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

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

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