



The EDM33K is a light and versatile exploration drill rig with diamond or multipurpose configurations.

The EDM33K is versatile and simple to operate and maintain.

The EDM33K 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).

Rod spinner, rod spin guard, wireline automatic rope spooler, WLO - winch limiter overrun on main and wireline winches prevents winches from drawing the overshot or rods into sheave or drum.

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

Technical Specifications

Diesel Engine

Cummins QSB 6,7 Tier III 260 HP @ 2.000 RPM

Tier IV options available on request

Truck -Optional

Six-wheel drive (6WD or 6×6) or 6×4 drivetrain

Crawler -Optional

Track Sejin 14T

Two Speed 4.5kph (2.8mph) Hi, 2.5kph (1.56 mph) Low

Caterpillar D3 Compatible Running Gear

Brevini Final Drives

Drill Mast

Heavy Duty two piece tubular section mast structure

Capable of angles from vertical to 45°

1.800 mm (6 ft) mast dump

Standard hydraulic mast raise cylinders with counter balance valves.

Rotation Top Drive Head

Hollow Floating spindle ID: 70 mm - 3 1/2" API IF pin thread

Two speed, Low/High gear change

Low gear Max. displacement 6.713 Nm (4.952 Lbft) @ 190 rpm Low gear Min. displacement 3.776 Nm (2.785 Lbft) @ 300 rpm High gear Max. displacement 1.610 Nm (1.188 Lbft) @ 817 rpm High gear Min. displacement 906 Nm (668 Lbft) @ 1.250 rpm

Head Traverse

Driven by single hydraulic cylinder

Max speed up cylinder 830 mm/s (33 in/s)

Max speed down cylinder 622 mm/s (24,5 in/s)

7,6 m (25 ft) stroke with rotation head

Capacity

Pulldown 78 kN (17.500 Lbf) Pullback 147 kN (33.000 Lbf)

Main Winch

Mounted on top of mast (Type Braden RW300)

Max pull 134 kN (30.000 Lbf)

Max speed 75 m/min (246 ft/min/)

Failsafe brake mechanism (spring applied, hydraulic release)

6 m (20 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 2.000 m (6.562 ft) of 6 mm ($\frac{1}{4}$ ") 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

Main Hydraulic Pump Parker 145 cc Piston Pump

Secondary Hydraulic pump Parker 105 cc Piston Pump

300 L Hydraulic Tank

Main Hydraulic Valve Danfoss PVG2 56 Pilot operated

Secondary Hydraulic Valve Danfoss PVG 32

Water Pump

American (Bean) AW1122BCD

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

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

Rod Break Out

Hydraulic cylinder mounted EDM wrap Spanner for N+, H+, P+ and casing

Metzke Makorbreak Hydraulic breakout wrench.

Adjustable height (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" & $4\frac{1}{2}$ " (optional $5\frac{1}{2}$ ")

Rod Spinner 4½" (5½" Optional)

Hydraulic slew in/out of mast

Self adjusting jaws ranging from N+ to PWT

2.980 kNm (2.200 Lbft) breaking torque

Ajustable 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

2.245 m (7.365 ft) B+ N+ 1.727 m (5.666 ft) H+ 1.172 m (3.845 ft) P+ 774 m (2.525 ft)

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

4" dual wall RC pipe 350 m (1.157 ft) 4½" dual wall RC pipe 255 m (84<u>0 ft</u>)

Dimensions

Platform Width: 2.500 mm (8 ft 2 in) Rig Overall Length: 12.000 mm (39 ft 6 in) Height: 4.600 mm (5 ft 1 in) Mast length: 10.100 mm (33 ft 2 in) Approx. Weight: 32.000 kg (70.548 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 1.500 hrs Diesel engine

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

