

EDM GREYHOUND 40 Drill

Track/Truck Mounted Diamond Exploration Drill Rig



The Greyhound 40 is a high capacity dedicated diamond drill with a compact design offering quick and easy mobilisation and impressive manoeuvrability around sites. With 40,000lb (18,144kgs) pullback capacity, a high-performance top drive rotation head, 40,000lb single line pull main winch and a 260HP engine, the Greyhound 40 offers impressive power and performance for its size.

Designed with safety in mind, the rig incorporates all the usual safety features that have come to be expected from EDM rigs, including a rod spinner, rod spin guard with hydraulic cut-out, wire line spooler, main winch override to prevent rods or the overshot accidentally being pulled through the drum, guards on all rotating equipment and radio remote jack up (on the crawler mounted rig). The track mounted version fits inside a 40ft container fully assembled and features a jack up base allowing it to be safely loaded onto a flat bed truck or trailer for road transport.

It's simple and robust design with easily accessible components ensures that the rig can be serviced and maintained in the field with ease and makes it an ideal choice for projects in tough environments and remote locations.

Technical Specifications

Diesel Engine

Cummins 260HP – 290HP diesel engines available.
T2, T3, T4 Final/Stage 5
*Other options available

Truck Mount

Rig mounted on 4x4/6x4 truck

Crawler Mount

14T Sejin
Two Speed 4.5 k/h (2.8 m/h) Hi , 2.5 k/h (1.56 m/h) Low
Caterpillar D3 Compatible Running Gear
On board tramping cabin for driver included

Drill Mast

Capable of angles from vertical to 45°
Main Winch mounted on top of mast.

Rotation Top Drive Head

Hollow Floating spindle ID: 63mm – 3 1/2" API IF pin thread
Four Speed hydraulic gear change
Low gear Max. displacement 10,000Nm (7,376Lbft) @ 152 rpm
Low gear Min. displacement 6,500Nm (4,794Lbft) @ 234 rpm
High gear Max. displacement 1,900Nm (1,401Lbft) @ 805 rpm
High gear Min. displacement 1,080Nm (797 Lbft) @1400 rpm

Head Traverse

Driven by two hydraulic cylinders
Max speed up cylinder 730 mm/s (29 in/s)
Max speed down cylinder 550 mm/s (22 in/s)
3,6 m (12 ft) stroke with rotation head

Capacity

Pulldown 76 kN (17,000 Lbf)
Pullback 178 kN (40,000 Lbf)

Main Winch

Mounted on top of mast (Type Braden RW300)
Max pull 178 kN (40,000 Lbf)
Max speed 60 m/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 6 mm (1/4") rope: 1,800 m (5,900 ft)
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

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.

Water Pump

American (Bean) AW1122BCD
140 l/min @ 7,000 kPa
(37 gal/min @ 1,000 psi)

Rod Break Out

EDM Wrap Spanner with hydraulic cylinder
Hydraulically controlled vertical positioning on tool joints
N+, H+, P+ and casing

Rod Clamp

Hydraulic 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 cylinders for raise/lower & left/right
Independent winch with lifting capacity of 200 kg (440 lb)

Rod Spinner 4 1/2" (5 1/2" Optional)

Hydraulic operated
Self adjusting jaws ranging from N+ to PWT
2,980 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

Rig Base

Extendable hydraulic jacks with 1.8 m (72") Stroke cylinders
enabling rig to be loaded onto any flatbed truck or trailer

Compact design enabling Rig to be loaded into 40" HC container with minimum fuss

Radio remote control included for safe jack up only

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

| | | |
|----|---------|------------|
| B+ | 2,722 m | (8,930 ft) |
| N+ | 2,094 m | (6,870 ft) |
| H+ | 1,420 m | (4,658 ft) |
| P+ | 938 m | (3,077 ft) |

Dimensions

| | | |
|---------------------|-----------|--------------|
| Platform Width: | 2,300 mm | (7 ft 6 in) |
| Rig Overall Length: | 12,000 mm | (39 ft 6 in) |
| Height: | 2,600 mm | (8 ft 6 in) |
| Mast length: | 10,100 mm | (33 ft 2 in) |
| Approx. Weight: | 23,000 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 1,500 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.



Exploration Drill Masters Chile S.A.
Av. Colorado 01200 Quilicura-Santiago – Chile
Phone: (0056-2) – 27390315,
E-mail: info@explorationdrillmasters.com
www.explorationdrillmasters.com