



DISCOVERY MP1000
Man Portable Diamond Core Drill

MULTI▶POWER

FEATURES

- Lightweight Module Design
- HWL Chuck & Clamp
- Aluminum Construction
- Simple Hydraulic System



Discovery MP1000 – Man Portable Diamond Core Drill

SPECIFICATIONS

DEPTH CAPACITIES: Based on max pullback & a 25% safety factor

B	5260 ft / 1603 m
N	4215 ft / 1285 m
H	2875 ft / 876 m

PRIME MOVER

Standard unit (3or4)	Kubota V1505T, 4 cylinder, turbo charged diesel engine
Power:	44 HP @ 3000 RPM
Optional unit (3or4)	Perkins 404D-22T, 4 cylinder, turbo charged diesel engine
Power:	55 HP @ 3000 RPM

ROTATION UNIT

Standard unit	B15 drill head c/w 12HH chuck
Maximum opening:	3-1/2" (H size)
RPM:	1400 RPM
Torque:	2100 ft lbs
Chuck:	26,000 lbs capacity
Hydraulic motor:	Rexroth 107cc variable speed/torque piston motor
Gear ratios:	3.1:1 & 4.4:1

FOOTCLAMP

Standard unit	12HH hydraulic open/spring closed
Maximum opening:	3-1/2" (H size)

MAST AND FEED

Feed stroke:	72"
Pullback:	29,452 lbs
Pulldown:	15,020 lbs
Drill angle:	45 to 90 degree
Tower:	10 ft or 20 ft rod pull capacity

WATER PUMP

Standard unit	LO918B-CD (420) piston pump
Capacity:	24 GPM @ 700 PSI

WINCHES

Wireline winch	Hydraulic motor direct drive
Capacity:	2000 ft of 3/16" cable

HYDRAULIC SYSTEM

Controls:	Fully hydraulic, no electronics
Rod handling:	Synchronized chuck & footclamp w/ additional chuck control
System pressure:	3500 PSI
Filtration:	10 micron
Components:	Sauer Danfoss, Valvol, Rexroth & Parker
Heat exchanger:	Water:oil

INCLUDED COMPONENTS

Mud mixer c/w whip lines
2000 ft of W/L cable
1 set of rod and casing jaws/bushings

WEIGHT 3950 LBS

OPTIONS

Steel wireline tower
Level wind winch
Diesel driven supply pump
Mud tank
French/Spanish labels & manual



Diamond Core



Seismic



Air Rotary



Specialty &
Multi-Purpose

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