



**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 (upgraded version)

# SPECIFICATIONS

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

<b>B</b>	8202 ft / 2500 m
<b>N</b>	6561 ft / 2000 m
<b>H</b>	4593 ft / 1400 m

## PRIME MOVER

<b>Standard unit (3or4)</b>	Kubota V2403T, 4 cylinder, turbo charged diesel engine
<b>Power:</b>	59 HP @ 2600 RPM
<b>Optional unit (3or4)</b>	Perkins 404D-22T, 4 cylinder, turbo charged diesel engine
<b>Power:</b>	55 HP @ 3000 RPM

## ROTATION UNIT

<b>Standard unit</b>	MPP LW Rotation (Belt Drive) w/ Christensen P Chuck
<b>Maximum opening:</b>	4.5" (P/WL size)
<b>RPM:</b>	1200 RPM
<b>Torque:</b>	Variable 0 - 2100 ft lbs
<b>Chuck:</b> Christensen,	Spring close/hydraulic open, 35,000 lbs. holding
<b>Hydraulic motor:</b>	160cc Variable Displacement Piston Motor
<b>Gear ratios:</b>	3.1:1 & 4.4:1

## FOOTCLAMP

<b>Standard unit:</b> Christensen	hydraulic open/spring closed, 35, lbs. holding,
<b>Maximum opening:</b>	4.5" (P/WL size)

## MAST AND FEED

<b>Feed stroke:</b>	72"
<b>Pullback:</b>	42,400 lbs
<b>Pulldown:</b>	27,980 lbs
<b>Drill angle:</b>	45 to 90 degree
<b>Tower:</b>	Steel construction, 3 meter barrel pull capacity

## WATER PUMP

<b>Standard unit</b>	FMC/American W1122BCD (435) c/w hydraulic drive
<b>Capacity:</b>	37 GPM @ 1000 PSI

## WINCHES

<b>Wireline winch</b>	Hydraulic motor direct drive
<b>Capacity:</b>	4000 ft of 3/16" cable

## HYDRAULIC SYSTEM

<b>Controls:</b>	Fully direct hydraulic, no electronics
<b>Rod handling:</b>	Synchronized chuck & footclamp w/ additional chuck & clam manual control
<b>System pressure:</b>	3500 PSI
<b>Filtration:</b>	10 micron
<b>Components:</b>	Parker, Hawe, & Sun Hydraulics
<b>Heat exchanger:</b>	Water:oil (Optional Air Cooled)

## INCLUDED COMPONENTS

Mud mixer c/w whip lines
Rod guard
1 set of rod and casing jaws/bushings

## WEIGHT 5508 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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