



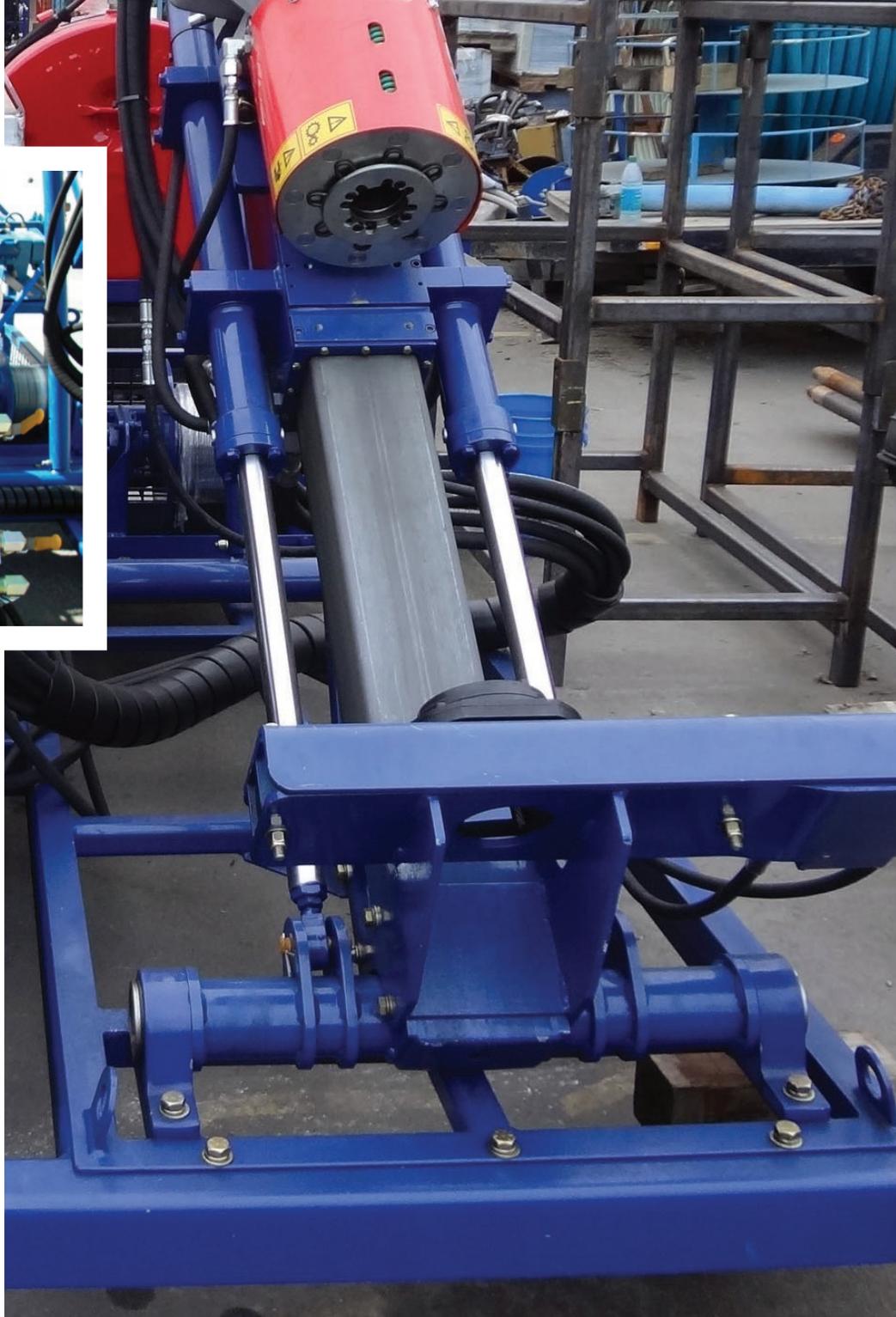
**DISCOVERY I**  
Diamond Core Drill

**MULTI▶POWER**



# FEATURES

- Lightweight Module Design
- Designed for Helicopter Transport
- No Module Over 1100 lbs.
- Available HWL Chuck



# Discovery I – Diamond Core Drill

# SPECIFICATIONS

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

B	2630 ft / 800 m
N	2000 ft / 605 m

## PRIME MOVER

Standard unit	Kubota V3800T, 4 cylinder, turbo charged diesel engine
Power:	99 HP @ 2600 RPM
Optional unit	Isuzu 4J1X, 4 cylinder, turbo charged diesel engine
Power:	131 HP @ 2500 RPM

## ROTATION UNIT

Standard unit	300 drill head & chuck
Maximum opening:	2-3/16" (B size)
RPM:	1400 RPM
Torque:	1000 ft lbs
Chuck:	12,000 lbs capacity
Hydraulic motor:	Commercial gear - Bushing style
Gear ratios:	1 to 1
Optional unit	Boyles B15
Maximum opening:	3-1/2" (H size)
RPM:	1400 RPM
Torque:	1800 ft lbs
Chuck:	26,000 lbs capacity
Gear ratios:	3.1:1 & 4.4:1

## FOOTCLAMP

Standard unit	2 cylinder hydraulic open/close
Maximum opening:	3-1/2" (H size)
Optional unit	12HH 3-1/2" (H size)

## MAST AND FEED

Feed stroke:	72"
Pullback:	14,000 lbs
Pulldown:	7510 lbs
Drill angle:	45 to 90 degree
Tower:	10 ft or 20 ft rod pull capacity

## WATER PUMP

Standard unit	L0918B-CD (420) piston pump
Capacity:	24 GPM @ 700 PSI

## WINCHES

Wireline winch	Hydraulic motor direct drive
Capacity:	1000 ft of 3/16" cable

## HYDRAULIC SYSTEM

Controls:	Fully hydraulic, no electronics
Rod handling:	Synchronized chuck & footclamp w/ additional chuck control
System pressure:	3000 PSI
Filtration:	10 micron
Components:	Sauer Danfoss, Valvoil, Rexroth & Parker
Heat exchanger:	Water:oil

## INCLUDED COMPONENTS

Mud mixer c/w whip lines
1000 ft of W/L cable
1 set of rod and casing jaws/bushings
55 gallon fuel tank

## WEIGHT 4799 LBS

## OPTIONS

Tracked carrier
Skid w/ stabilizer cylinders
Level wind winch
Diesel driven supply pump
Enclosed drill shack
Mud tank
French/Spanish labels & manual



**Diamond Core**



**Seismic**



**Air Rotary**



**Specialty &  
Multi-Purpose**

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