

# DURALITE 1800N



## OVERVIEW:

Duralite Diamond Drills are constructed from only the best quality materials and are designed to be both durable and lightweight. All aspects of the drill have been designed to ensure maximum safety for the user(s). Considerable attention has been given to the size and weight of every component to afford the most efficient disassembly, transport, and re-assembly possible. The total operational weight of the **Duralite 1800N is only 9770lbs (4432kg).**

### Performance:

Depth capacity\* for diamond drilling

N 2 3/4" (69.9 MM)	5,905 FT (1,800 M)
H 3 1/2" (88.9 MM)	3,937 FT (1200 M)
P 4 5/8" (117.5 MM)	2,624 FT (800 M)

\*Drilling capacity is based on a 90° hole and will depend on in-hole tools, ground conditions, drilling techniques, and equipment use.

### Standard Engine:

Diesel John Deere 200Hp at 2,400 RPM

### Wireline Hoist (with Guarding):

The wireline winch is manufactured out of aluminum and is driven by a low speed, high torque hydraulic motor providing variable speed.

<b>CABLE CAPACITY:</b>	3/16" (4.88 MM): 6,000 (1,830 M)
<b>PULL CAPACITY:</b>	2,000 LBS (907KG)

### Rod Handling Winch (with Guarding):

<b>CABLE CAPACITY:</b>	5/16": 100' (30.5M)
<b>PULL CAPACITY:</b>	300 LBS (136KG)

### Hydraulic Module:

Our proven hydraulic system is an open center, vented tank system, constructed using only top brand name pumps, valves, and accessories. This hydraulic system delivers 91 GPM at 2,400 RPM.

### Feed Frame and Base:

<b>Head Stroke:</b>	72 Inches (1.85 M)
<b>Pull Capacity:</b>	50,240 lbs @ 4,000 PSI
<b>Possible drilling angles:</b>	45° to 90°

### Rotary Head, Chuck, and Rod Holder:

Holding Capacity:	45,000 lbs (20,455 kg)
Maximum Rod Size:	4.625" (117.5 mm)
Chuck Operation:	Spring closed and hydraulically opened
Final Drive:	Chain driven
Hydraulic motor:	Variable (160cc)
Transmission:	4-speed funk Transmission
Gear Ratio:	Head – 2.4:1 Transmission: 1 <sup>st</sup> Gear – 6.63:1 2 <sup>nd</sup> Gear – 3.17:1 3 <sup>rd</sup> Gear – 1.72:1 4 <sup>th</sup> Gear – 1:1
Lubrication:	Gear Oil Bath
Fabrication:	Steel
Speed:	Variable up to 1,500 RPM

### Weight:

Power Unit c/w Guarding	1,820 lbs
Hydraulic Module	1,690
Feed frame with saddle & ½ hinge	1,660
Tower base with ½ hinge w/o winch	1,040
Wireline Winch w/o cable	330
Tower with Rod Winch	475
Drill head assembly w/motor & hoses (AVD P)	1,555
Rod clamp assembly	450
Rod Clamp Mount	150
Foundation beams	200
Stiff Legs (Set of 2)	120
Pratissoli KF40 Pressure Pump( +260 for FMC)	280

**Total Weight: 9770 lbs**