



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 1000N is only 9,755lbs (4,426 kg).**

Performance:

Depth capacity* for diamond drilling

| | |
|---------------------|--------------------|
| B 2 3/16" (55.6 MM) | 4,265 FT (1,300 M) |
| N 2 3/4" (69.9 MM) | 3,281 FT (1,000 M) |
| H 3 1/2" (88.9 MM) | 2,559 FT (780 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 170Hp at 2,200 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.

| | |
|------------------------|-----------------------------------|
| <u>CABLE CAPACITY:</u> | 3/16" (4.88 MM): 4,500' (1,372 M) |
| <u>PULL CAPACITY:</u> | 2,000 LBS (907KG) |

Rod Handling Winch (with Guarding):

| | |
|------------------------|--------------------|
| <u>CABLE CAPACITY:</u> | 3/8": 100' (30.5M) |
| <u>PULL CAPACITY:</u> | 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 62 GPM at 2,200 RPM.

Feed Frame and Base:

The feed frame is constructed using aluminum "I" Beams. The head carriage is constructed of aluminum and the tower base is constructed using aluminum channel with aluminum angle for strengtheners. All hinge points are constructed using Stainless Steel.

| | |
|----------------------------------|------------------------|
| Head Stroke: | 60 Inches (1.52 M) |
| Pull Capacity: | 29,000 lbs @ 3,500 PSI |
| Possible drilling angles: | 45° to 90° |



Rotary Head, Chuck, and Rod Holder:

| | |
|-------------------|--|
| Holding Capacity: | 26,000 lbs (11,790 kg) |
| Maximum Rod Size: | 3.5" (89 mm) |
| Chuck Operation: | Spring closed and hydraulically opened |
| Final Drive: | Gear driven |
| Hydraulic motor: | Variable (160cc) |
| Transmission: | Hi-Lo 2 Speed manual |
| Gear Ratio: | High: 3.1:1 Low: 5.4:1 |
| Lubrication: | Pumped oil, filter and cooler |
| Fabrication: | Steel |
| Speed: | Variable up to 1,500 RPM |

Weight:

| | |
|---------------------------------------|-------------------------|
| Power Unit c/w Guarding | 1,715 lbs |
| Hydraulic Module | 1,590 |
| Feed frame with mounts | 1,240 |
| Tower base c/w winches (no cable) | 820 |
| Tower c/w stiff legs | 1,480 |
| Drill head assembly c/w motor & hoses | 1,100 |
| Rod clamp assembly | 230 |
| Fibreglass floors | 880 |
| Foundation beams | <u>700</u> |
| Total Weight: | <u>9,755 lbs</u> |

