



Mobile Drill Intl

YOUR DRILL RIG SALES AND SERVICE EXPERTS SINCE 1947

B45

Geotechnical
Environmental



A Compact Drill with Big Rig Performance

Auger • Rotary • Coring

B45 Drilling Benefits

- The new standard for geotechnical drilling applications
- 8,085 ft-lb of torque for augers and 669 rpm for coring
- 2 in. ID open spindle
- Power shift transmission
- Under 14,000 lbs track mounted
- High return on investment
- Skid, track, truck and trailer mounts



PERFORMANCE SPECIFICATIONS

Feed System

Pulldown force: 15,708 lbs [7,125 kg]
Retract force: 24,544 lbs [11,133 kg]
Feed speed, down: 53 ft/min [16.2 m/min]
Feed speed, retract: 34 ft/min [10.4 m/min]
Feed stroke: 6 ft [1.8 m]

Hydraulic System

Tandem hydraulic pumps

Primary

Variable displacement load sense pump 28 gpm
[106 l/min] @ 3,500 psi [24.0 MPa]

Auxiliary

- Vane type pump, 17 gpm
[64.3 l/min] @ 2,500 psi [17.2 MPa]
- Electric fan type hydraulic oil cooler
 - 40 gal [151.4 l] hydraulic oil tank

Power Unit

- Engines include a 12V starting circuit.
- All engine gauges located on the control panel.
- 40 gallon (151.4 l) fuel tank with lock.
- Lockable battery box.

John Deere 4024HF285 Tier 3,

80 Hp (60 kw) @ 2400 rpm, developing 209 ft-lb (283 Nm) torque, water cooled, 2.4 l diesel engine.

Or

Deutz TD2011LO4I Tier 3,

75 hp (56 kw) @ 2600 RPM, developing 184 ft-lb (250 Nm) torque, air cooled, 3.62 l diesel engine.

Power Shift Transmission

- 4-speeds forward and 1-speed reverse
- Transmission oil cooled through a dedicated electric fan type cooler
 - 10 micron replaceable oil filter

Rotary Head

- Total enclosed “dry box” with tapered roller bearings.
- 1-3/4” steel Kelly drive bar

Open spindle bore: 2 in [50.8 mm]

Maximum torque and maximum rpm (engine specific):

John Deere

8,085 ft-lb [10,961 Nm] @ 20 rpm, Maximum 618 rpm

Deutz

7,110 ft-lb [9,640 Nm] @ 20 rpm, Maximum 669 rpm

Mounting Options

Truck, trailer, track carrier or skid

Hoists

Main—Single line capacity: 4,500 lbs [2,041 kg]

Line speed: 0-135 fpm [41.2 mpm]

Cable diameter: 5/16 in (.325) [8.3 mm]

Cable length: 100 ft [30.5 m] standard

Safe-T Driver—Single line capacity: 900 lbs [408.2 kg]

Line speed: Variable up, freefall down

Cable diameter: 1/4 in (.250) [6.4 mm]

Cable length: 300 ft [91.4 m] standard

Wireline—Single line capacity: 1,200 lbs [544.3 kg]

Line speed: 0-500 fpm [0-152.4 mpm]

Cable diameter: 3/16 in (.185) [4.7 mm]

Cable length: 400 ft [121.9 m] standard

Winch capacity: 3,500 ft [1,067 m] cable

Estimated Operating Capacities

Hollow stem augers, 4-1/4 in [108 mm] ID: 130 ft [40 m]

Continuous flight auger, 6 in [152.4 mm] OD: 225 ft [67 m]

Rotary drilling, NWJ/NW drill pipe: 1,000 ft [305 m]

Diamond core drilling, N Wireline: 900 ft [275 m]

Note: Above drilling capacities may vary according to subsurface conditions, hoist capacity and drilling medium gpm and psi.

SPT Automatic Hammer

ASTM D-1586 standards, standard duty and heavy duty

140 lb [63.5 kg], 170 lb [77.1 kg], 300 lb [136.1 kg],

340 lb [154.2 kg] slugs available

Hydraulic self compensating

Leveling Jacks

Three or four jacks (depending on mounting option),

24 in [610 mm] or

36 in [914 mm] stroke

12 in [305 mm] swiveling round pad at bottom of the jack

Optional Equipment

- Mast: 20 ft [6.1 m] or 25 ft [7.6 m]
- In-out slide base/Side-to-side slide base
- Above deck combination auger/rod rack
- Auger racks under body swing out
- Rod trough
- Toolboxes
- Water tanks 100-500 gal [37.5 l-1,892.5 l] steel or stainless steel
- Top mount water swivel
- Standpipe
- Water pumps
- Break-out wrench
- Drive tool quick change adapters
- Rod clamp system
- Driller platform
- Night Lights

NOTE: Engineering specifications are theoretical, actual performance will be different, specifications are subject to change without notice.