

Mobile Drill Intl

HELPING YOU BUILD OUR WORLD SINCE 1947

Mechanical Drill

B57



TOUGH COMPACT MULTI-PURPOSE

THE WORKHORSE FOR THE GEOTECH AND ENVIRONMENTAL INDUSTRIES

CORING • ROTARY • HOLLOW STEM & CONTINUOUS FLIGHT

B57 Drilling Features

- Two rotary head options: High Torque. High Speed.
 - High Torque – Maximum torque 11,420 ft-lb [15,483 Nm] with a maximum 672 rpm
 - High Speed – 960 rpm with a maximum torque of 7,990 ft-lbs [10,832 Nm]
- Retract Force: 30,000 lbs [13,608 kg]
- Pulldown Force: 20,000 lbs [9,072 kg]

PERFORMANCE SPECIFICATIONS

Hydraulic Feed System

Pulldown force: 20,000 lbs [9,072 kg]

Retract force: 30,000 lbs [13,608 kg]

Feed speed, down: 62 ft/min [18.8 m/min]

Feed speed, retract: 41 ft/min [12.4 m/min],

Rapid: 80 ft/min [24.3 m/min]

Feed stroke: 6 ft [1.83 m]

Power Unit

Diesel Engine: John Deere Tier 3, 125 HP (93 kW)

or Deutz Tier 3, 116 hp (86.5 Kw)

Engines include: 12V starting circuit, electronic engine module installed in the operators control panel, 40 gallon (151 l) fuel tank with lock, lockable battery box, cold weather starting package.

Right Angle Drive

Single speed heavy duty right angle drive with tapered roller bearings and a ring gear and pinion. All bearings and gears are lubricated through an oil bath. 2 in. [50.8 mm] hardened output shaft with flex chain coupling to a 1-3/4 in. sq. [44.5 mm] kelly bar.

Drill Head Rotary

- Total enclosed "dry box" with tapered roller bearings.
- 1-3/4 in. [44.5 mm] heat treated alloy steel kelly drive bar.
- 3-1/4 in. [82.6 mm] ID hollow spindle

Maximum torque and Maximum rpm (engine specific):

HIGH TORQUE OPTION

John Deere - 1st gear: 11,420 ft-lb [15,483 Nm]

6th gear: 672 rpm

Deutz - 1st gear: 8,880 ft-lb [12,039 Nm]

6th gear: 644 rpm

HIGH SPEED OPTION

John Deere - 1st gear: 8,000 ft-lb [10,832 Nm]

6th gear: 960 rpm

Deutz - 1st gear: 6,210 ft-lb [8,420 Nm]

6th gear: 920 rpm

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

Single front/dual rear, 36 in [914.4 mm] stroke

Estimated Operating Capacities

Hollow stem augers, 4-1/4 in [108 mm] ID: 250 ft [76 m]

Continuous flight auger, 6 in [152.4 mm] OD: 300 ft [91 m]

Rotary drilling, NWJ/NW drill rod with 5 in [127 mm] OD bit:
1,500 ft [457 m]

Diamond core drilling:

N wireline: 1,600 ft [487 m]

H wireline: 1,100 ft [335 m]

P wireline: 730 ft [222 m]

Note: Above drilling capacities may vary according to sub-surface conditions, hoist capacity and rotary head option.

Hoist

MAIN—SINGLE LINE CAPACITY: 8,500 lbs [3,855.54 kg]

Line speed: 0-75 ft/min [0-22.9 m/min], 0-325 ft/min
[0-99.1 m/min] reverse

Cable diameter: 1/2 in (.500) [12.7 mm]

Cable length: 100 ft [30.48 m]

AUXILIARY—SINGLE LINE CAPACITY: 4,500 lbs [2,041.17 kg]

Line speed: 0-135 ft/min [41.2 m/min]

Cable diameter: 5/16 in (.325) [8.26 mm]

Cable length: 100 ft [30.5 m] standard

SAFE-T DRIVER HOIST: 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

WIRE LINE HOISTS - A WIDE VARIETY ARE AVAILABLE

Line capacities from 700 ft [213 m] to 7,500 ft [2,286 m]

Optional Equipment

- Mast: 20 ft [6 m], 25 ft [7.6 m], or 30 ft [9.1 m]
- In-out slide base/Side-to-side slide base
- Rod clamp, manually positioned, 1-5/8" [41.3 mm] through 8-1/4" [209.6 mm]
- Rod clamp, hydraulically positioned, 1-3/8" [34.9 mm] through 5-7/8" [149.2 mm]
- Drive tool quick change adapters
- Wide selection of auger/rod racks
- Top mount water/air swivels for rotary and coring
- 2" [50.8 mm] Standpipe
- Water pumps - piston, centrifugal and progressive cavity
- Hydraulic chuck - various sizes
- Break-out wrench, hydraulic activated
- Driller/helper platforms
- Safety Cage options
- Night Lights

Mounting Options

Truck, trailer, track carrier



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