B57 Mechanical Drill

The B57 versatility provides the highest ROI in its class

Safety Cage Options Available

Compact Versatile Package
20,000 lbs (9,072 kg)

Over 11,000 ft-lb Torque

Pulldown Force
20,000 lbs (9,072 kg)

Retract Force
30,000 lbs (13,608 kg)

Unit Comes With
- 12V starting circuit, electronic engine module installed in the operators control panel
- Cold weather starting package

Powerful Diesel Engine
John Deere Tier 3, 125 Hp (93 Kw)
or the
Deutz Tier 3, 116 Hp (86.5 Kw)
Tier 4 Options available!

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 subsurface conditions, hoist capacity and rotary head option.

E-Z Shift Technology

Service Acessibility
Easy access to engine and Hydraulic system.

Track Carrier Mounted
(CAT 307 or 312) carriers come with rod clamp breakout and auger storage.

14 in. Heavy Duty Clutch

Two Rotary Head Options
(Maximum torque and maximum rpm engine specific)
High Torque – Maximum torque
11,420 ft-lb (15,483 Nm)
with a maximum of 672 rpm
High Speed – 960 rpm
Maximum torque of 7,990 ft-lbs [10,832 Nm]

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

Truck Mounted
The B57 can be mounted on any heavy-duty truck.
*Trailer mount option is not photographed here.

Contact a Mobile Drill sales representative about a demonstration or rental options.

B57 Mechanical Drill

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.

3807 MADISON AVENUE, INDIANAPOLIS INDIANA, 46227 • FX 317-784-5661

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

1-800-766-3745 • MOBILEDRILL.NET • SALES@MOBILEDRILL.NET