

Since 1947

B53



Mobile Drill Intl



The B53 is a compact, hydraulic drill with applications in geotechnical, environmental and mineral exploration. Auger drilling, both hollow stem and continuous flight, rotary and diamond core drilling and angle drilling are all possible. The B53 is sized for mounting on a variety of carriers to provide go-anywhere versatility. The B53 can be powered either from a carrier engine PTO or a dedicated drill engine.

The B53 has a 10-speed rotary head with a maximum 837 rpm [87.65 rad/s] and 8,600 ft-lbs [11,660 Nm] of torque, giving it a pull-down force of 31,400 lbs [14,242 kg] and a retract force of 24,000 lbs [10,886.2 kg].

Over 60 years of performance and reliability.

www.mobiledrill.net



B53 Performance Specifications

Hydraulic Feed System

Pulldown force: 31,400 lbs [14,242 kg]
Retract force: 24,000 lbs [10,886.2 kg]
Feed speed, down: 0–127 ft/min [0–38.7m/min]
Feed speed, retract: 0–95 ft/min [0–28.96m/min]
Feed stroke: 78 in [1.98 m]
Angle drill capable

Power Unit

Deck engines: Cummins, Deutz Diesel
PTO: Transmission or transfer case

Hydraulic Pumps

Primary pump: 36 gpm [1,36 l/min]
Auxiliary pump: 24 gpm [90.84 l/min]

Drill Head Rotary

Max RPM: 837 [87.65 rad/s]
Torque: 8,600 lb-ft [11,646.8 Nm]
10-speeds

Estimated Operating Capacities

Hollow stem augers, 3-1/4 in [108mm] ID: 150 ft [45.72 m]
Continuous flight auger, 6 in [152mm] OD: 300 ft [91.44 m]
Continuous flight auger, 14 in [356mm] OD: 60 ft [18.27 m]
Rotary drilling, NW: 1,000 ft [304.8 m]
Diamond core drilling, NQ: 1,200 ft [365.76 m]

Note: Above drilling capacities may vary according to subsurface conditions.

Weight

Minimum: 7,000 lbs [3,175.15 kg]
Will vary with options

Leveling Jacks

Single front/Dual rear, 24 in [609.6 mm] or 36 in [914.4 mm] stroke

Hoist

Main—Single line capacity: 8,500 lbs [3,855.5 kg]
Line speed: 0–75 fpm [0–22.86 mpm]
0–325 fpm [0–99.06 mpm] reverse
Cable diameter: 1/2 in (.500) [12.7 mm]
Cable length: 100 ft [30.48 m] standard
Auxiliary—Single line capacity: 4,500 lbs [2,041.17 kg]
Line speed: 0–135 fpm [41.15 mpm]
Cable diameter: 5/16 in (.325) [8.26 mm]
Cable length: 75 ft [22.86 m] standard
Safe-T Driver—Single line capacity: 900 lbs [408.23 kg]
Line speed: variable up, freefall down
Cable diameter: 1/4 in (.250) [6.35 mm]
Cable length: 300 ft [91.44 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 [121.92 m] standard
Winch capacity: 3,500 ft [1,066.8 m] cable

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 compensated
Self compensating optional

Optional Equipment

In-out slide base/side-to-side slide base
Adjustable auger guide support
Above deck combination auger/rod rack
Front mounted auger rack
Swing out under body auger racks
Toolboxes
Water tanks
Rod clamp
Auger guide
Water pumps
Break-out wrench
Hydraulic chuck
Driller platform

Mounting Options

Truck, trailer, tractor, dozer,
rubber track or skid

