



# Mobile Drill Intl

YOUR DRILL RIG SALES AND SERVICE EXPERTS SINCE 1947

# B53



Geotechnical • Environmental • Mineral Exploration

## B53 Drilling Benefits

- Compact Hydraulic Drill
- Sized For Mounting on a Variety of Carriers
- Great Multi-Purpose Rig
- Designed For Angle Drilling
- Hollow Stem Auger, Continuous Flight Auger, Diamond Core & Rotary Drilling
- Feed Stroke: 72 in [1.98 m]
- Retract Force of 24,000 lbs (10,866.2 kg)
- Pulldown Force of 31,400 lbs (14,242 kg)

## 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 [0-38.7 m/min]  
**Feed speed, retract:** 0-95 ft/min [0-28.96 m/min],  
**Feed stroke:** 78 in [1.98 m]  
Angle Drill Capable

### Power Unit

**Deck Engines:** Cummins, Deutz Diesel  
**PTO:** Transmission or Transfer Case

### Hydraulic Pump

**Primary Pump:** 36 gpm [1.36 l/min]  
**Auxiliary Pump:** 24 gpm [90.84 l/min]

### Drill Head Rotary

- Maximum Rotary Speed: 837 RPM [87.65 rad/s]
- Torque: 8,600 ft-lbs [11,660 Nm]
- 10 Speeds

### Estimated Operating Capacities

**Hollow Stem Auger, 3-1/4 in [108 mm] ID:** 150 ft [45.72 m]  
**Continuous Flight Auger, 6 in [152 mm] OD:** 300 ft [91.44 m]  
**Continuous Flight Auger, 14 in [365 mm] 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.

### 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 ft/min [41.15 m/min]

**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 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 Underbody Auger Racks
- Toolboxes Water Pumps
- Water Tanks Break-Out Wrench
- Rod Clamp Hydraulic Chuck
- Auger Guide Driller Platform

### Mounting Options

- Truck
- Trailer
- Tractor
- Dozer
- Rubber Track
- Skid

**Hydraulic Specs Disclaimer:** Actual rotary head performance may vary slightly depending on engine rpm, hydraulic systems' pressure and pump flow settings.

**For All Drilling Depth Capacities on All Drills Disclaimer:** Above drilling capabilities may vary according to subsurface conditions, hoist capacity and drilling medium gpm, cfm, and/or psi.