

Mobile Drill Intl

HELPING YOU BUILD OUR WORLD SINCE 1947

Compact Mechanical Drill

B42



RUGGED DURABLE VERSATILE

THE COMPACT SOLUTION FOR THE GEOTECH AND ENVIRONMENTAL INDUSTRIES

GEOTECHNICAL • ENVIRONMENTAL • MINERAL & AGGREGATE PROSPECTING

B42 Drilling Benefits

- Compact size permits mounting on variety of carriers to provide go-anywhere versatility
- Retract Force: 21,599 lbs [9,797 kg]
- Pulldown Force: 13,823 lbs [6,270 kg]
- Maximum Rotary Speed of 763 RPM
- 72-inch (182.9 cm) Feed Stroke

PERFORMANCE SPECIFICATIONS

Hydraulic Feed System

Pulldown Force: 13,823 lbs [6,270 kg]

Pulldown Speed: 97 ft/min [30 m/min]

Retract Force: 21,599 lbs [9,797 kg]

Retract Speed: 62 ft/min [19 m/min]

Feed Stroke: 72 in [182.9 cm]

Power Unit

Diesel Engine: 4i, 57.7 hp [43 kW] @ 2,300 RPM
or Deutz Tier 3, 116 hp [86.5 Kw]

Engines include: Lockable Battery Box, 20 Gal [75.7 l] Lockable Fuel Tank, Cold Weather Starting Package, Engine Control Monitoring Panel.

Right Angle Drive

- Single-Speed Heavy-Duty Right Angle Drive in Oil Bath
- NO-Disconnect, Universal Joint Drive Line to Rotary Box

Rotary Box

- Enclosed 'Dry Box' with Tapered Roller Bearings
- 1-3/4" Steel Kelly Drive Bar Drive to the Rotary Drive System
- Single Speed Rotary Box
- One Rotary Box Used For Either High Speed or High Torque Rotated When Switching Between the Two

HIGH TORQUE SIDE

4,470 ft-lb [6,060 Nm], Maximum 488 RPM

HIGH SPEED SIDE

2,861 ft-lb [3,879 Nm], Maximum 763 RPM

SPT Options Available

SPT Automatic Hammer

ASTM D-1586 Standards, Standard Duty & Heavy Duty Slugs Available: 140 lb [63.5 kg], 170 lb [77.1 kg], 300 lb [136.1 kg], and 340 lb [154.2 kg]
Hydraulic Self-Compensating

Cathead

8-in [203 mm], 3,000 lb [1,361 kg]
Hydraulic Motor-Powered

Safety Equipment

- Emergency Drive Line Spindle Brake - Standard
- Lifeline Shutoff System - Standard
- E-Stops - Standard
- Optional Wobble Emergency Shutoff Switches
- Optional Safety Cage

Hoist

MAIN 5,000 lbs [2,268 kg], Bare Drum

Line Speed, Bare Drum: 0-60 fpm [18 m/min]

Cable Diameter: 5/16-in [.325] [8.26 mm]

Cable Length: 100-ft [30.48 m] Standard

MAIN 4,500 lbs [2,041 kg], Bare Drum

Line Speed, Bare Drum: 0-135 fpm [41.15 m/min]

Cable Diameter: 5/16-in [.325] [8.26 mm]

Cable Length: 100-ft [30.48 m] Standard

AUXILIARY 3,000 lbs [1,361 kg], Bare Drum

Line Speed, Bare Drum: 0-126 fpm [36.9 m/min]

Cable Diameter: 5/16-in [.325] [8.26 mm]

Cable Length: 100-ft [30.48 m] Standard

WIRELINE 900 lbs [408.2 kg]

Line Speed: 0-500 fpm [0-152.4 m/min]

Cable Diameter: 3/16-in [.185] [4.7 mm]

Cable Length: 700-ft [213 m] Standard

SAFE-T DRIVER 900 lbs [408.2 kg]

Line Speed: Variable Up, Freefall Down

Cable Diameter: 1/4-in [.250] [6.35 mm]

Cable Length: 300-ft [91.44 m] Standard

Note Hoists are limited to one (1) main and one (1) auxiliary, and either a wireline or Safe-T-Driver hoist.

Other Drill Optional Equipment

In-Out Slide Base, Side-To-Side Slide Base, Tandem Hydraulic Pump, Hinged Low Height Crown Block, Rod Clamps and Breakout Wrench, Night Light Package, Control Panel Covers, Side Inlet Water Swivel, Standpipe, Water Pumps - Progressive Cavity and Triplex Piston Type Pumps, Drive Tool Quick Change Adapters

Carrier Options

Truck, Track, ATV, Trailer, Skid

Mounting Options

Custom Body Fabrications, Above Deck Combo Auger/Rod Rack, Redi-Rack Auger Storage, Under-Body Auger Racks, Rod Trough, Toolboxes, 24-in [609.6 mm] or 36-in [914.4 mm] Hydraulic Stabilizing Jacks, Drillers/Helpers Step Platform, Cab Bulkhead, Steel or Stainless Steel Water Tanks (100 to 500 Gal) [37.5 l to 1,892.5 l], Front Winches (12,000 lb) [5,443 kg] Hydraulic or (16,500 lb) [7,484 kg] Electric

Hydraulic System

- Non-Mobile Track Carrier: Single Gear Primary Pump, Optional Tandem Gear Pump
- Mobile Track Carrier: Variable Displacement Load Sense Primary Pump and Auxiliary Gear Pump
- Electric Fan Type Hydraulic Oil Cooler
- 30 Gal (113.5 l) Hydraulic Oil Tank

