



Progress Drilling USA

(PDUSA) is a leading geotechnical and geo-environmental drilling service provider, offering a comprehensive range of solutions in soil and bedrock sampling.

PDUSA takes pride in its state-of-the-art equipment and highly skilled personnel, proficient in conducting drilling operations to depths surpassing 1,000 feet.

Employing cutting-edge techniques such as solid or hollow stem auger, casing advance, wet rotary, and rock coring, PDUSA ensures precise and accurate results for diverse geotechnical and environmental projects.

With a focus on exceeding client expectations and adhering to the highest standards, Progress Drilling continues to be a trusted name in geotechnical and geo-environmental drilling, ensuring success in every project we undertake.

Since our startup in 2023, we have safely drilled over 32,000 feet!



Diedrich D-70



Hydraulic Feed System

Pulldown force: 21,450 lbs [9,730 kg]
Retract force: 32,500 lbs [14,740 kg]
In-out slidebase: 16in[406mm]of travel
Side to Side slide base 6 in. [152 mm] of travel

Power Unit

John Deere, 4 Cylinder Turbo Diesel,
Liquid Cooled 125 HP with Tier 4
Emissions.
PTO: Transmission

Drill Head Rotary

- 13" (330 mm) clutch with heavy-duty helical gear transmission
- 5 forward & 1 reverse gear.
- #100, triple strand roller chain drive, totally enclosed & running in oil
- Spindle bore: 3-1/2 in [89 mm]
- Maximum rotary speed: 640 rpm
- Maximum torque: 11,200 ft-lb [15,185 Nm]

Estimated Operating Capacities

- (Standard Rotary Head)
- Hollow stem augers, 3-1/4 in [82.6 mm] ID: 150 ft [30 m]
- Continuous flight auger, 6 in [152.4 mm] OD: 300 ft [91.4 m]
- Rotary drilling, 2-3/4 in [69.9 mm] OD drill rod: 1,500 ft [457 m]
- Diamond core drilling, N Wireline: 1,200 ft [365.8 m]
- Note: Above drilling capacities may vary according to subsurface conditions and rotary head option.

SPT Automatic Hammer

ASTM D-1586 standards, standard duty

and heavy duty 140 lb
[63.5 kg] Hydraulic self compensating

Leveling Jacks

Jacks are available for rear and front mounting. 4"(102mm) bore cylinders are enclosed within telescoping steel tubes for increased durability and stability. Each jack is provided with a pivoted foot pad with a non-slip surface. Standard stroke is 36"(915mm)

Hoist

- MAIN—SINGLE LINE CAPACITY: 8,000 lbs [3,628.7 kg]
- Line speed: 0-75 fpm [0-22.9 mpm]
- Line speed - Reverse: 0-325 fpm [0-99.06 mpm]
- Cable diameter: 1/2 in (.500) [12.7 mm]
- Cable length: 100 ft [30.5 m] standard
- AUXILIARY—SINGLE LINE CAPACITY: 3,500 lbs [2,041.2 kg]
- Line speed: 0-135 fpm [41.2 mpm]
- Cable diameter: 5/16 in (.325) [8.3 mm] Cable length: 75 ft [22.9 m] standard
- SAFE-T DRIVER—SINGLE LINE CAPACITY: 800 lbs [362.9 kg]
- Line speed: variable up, freefall down
- Cable diameter: 1/4 in (.250) [6.4 mm] Cable length: 300 ft [91.4 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 [121.9 m] Standard winch capacity: 3,500 ft [1,066.8 m] cable

Equipped with:

- Hydraulic make/break rod clamp system
- Hydraulic break-out wrench
- Cathead 8 in. Diameter and 6in. long
- Moyno 3L8 Water Pump
- Rod trough
- Auger/rod rack - Above deck combination
- Auger rack - Front mounted
- Tool Boxes
- Driller platform
- Carrier/Mast Safety Interlock System

Mounted on Rubber Tacked Terramac RT7 Carrier

- Weight 32,500 lbs (14,742 kg)
- Length 20'3"
- Width 8'2"/ 2.49m
- Ground Pressure 5.8 p.s.i
- Horizontal Technology Inc.
- 16863 Warren Ranch Rd
- 1.713.774.5594
- Diedrich D-70



Mobile B57 Drill, Mounted on an International 4900 Series Truck



Hydraulic Feed System

- Pulldown force: 23,300 lbs [10,568.7 kg]
- Retract force: 35,300 lbs [16,011.8 kg]
- Feed speed, down: 61 ft/min [18.59 m/min]
- Feed speed, retract: 40 ft/min [12.19 m/min]
- Feed stroke: 6 ft (1.83 m)

Power Unit

- Deck engines: Cummins, Deutz Diesel

Hydraulic Pumps

- Primary pump: 24 gpm [90.85 l/min]
- Auxiliary pump: 24 gpm [90.85 l/min]

Drill Head Rotary

- Maximum rotary speed: High speed range 0-665 rpm
- [69.64 rad/s] [3rd gear]
- Maximum rotary speed: Low speed range 0-82 rpm
- [8.59 rad/s] [1st gear]
- Torque: 10,896 ft-lbs [14,773 Nm]
- 6-speeds
- Open bore: 4-3/4 in (120.65 mm)

Leveling Jacks

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

Estimated Operating Capacities

- Hollow stem augers, 4-1/4 in (108 mm) ID: 225 ft [68.58 m]
- Continuous flight auger, 6 in (152.4

- mm) OD: 325 ft [99.06 m]
- Rotary drilling, 2-5/8 in [66.68 mm] OD drill pipe: 1,550 ft [472.4 m]
- Diamond core drilling, NQ: 2,350 ft [716.28 m]
- Note: Above drilling capacities may vary according to subsurface conditions.

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

Hoist

- Main-Single line capacity: 12,000 lbs [5,443.1 kg]
- Line speed: 52 fpm [15.85 mpm]
- Cable diameter: 5/8 in (.625) [15.88 mm]
- Cable length: 100 ft [30.48 m] standard
- Main-Single line capacity: 8,500 lbs [3,855.54 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 (.3125) [8.26 mm]

- Cable length: 100 ft [30.48 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 (.1875) [4.7 mm]
- Cable length: 400 ft [121.92 m] standard
- Winch capacity: 3,500 ft [1,066.8 m] cable

Weight

- Minimum: 28,000 lbs [12,730 kg]



7822DT Geoprobe



The Geoprobe 7822DT is a versatile and compact drilling rig, designed to adapt to different work settings. Its small footprint and wide track base allowing for maneuverability in confined spaces or remote sites.

Platform & Dimensions

- Stroke: 78" (1,981mm)
- Weight (base): ~8,000lb (3,632kg)
- Weight (with options): 9,560lb (4,336kg)
- Width: 64" (1,626mm)
- Length (folded): 133" (3,378mm)
- Height (folded w/standard mast): 100" (2,540mm)
- Height (unfolded with mast): 187" (4,750mm)

Mobility & Stability

- Foot/Track Travel: 20.5" (521mm)
- Lateral Movement: 15.5" (394mm)
- Oscillation: $\pm 7^\circ$ side-to-side, $\pm 13^\circ$ vertical tilt
- Rear Stabilizer Lift: 2,000lb
- Ground Speed: 0-5mph (0-8kph)
- 4.6PSI (0.32kg/cm²)

Performance & Hydraulic Power

- Downforce: 36,000lb (160kN)
- Retraction Force: 48,000lb (214kN)
- Hydraulic Pressure: 4,000psi (275bar)
- Hydraulic Flow: 40gpm (151Lpm)

Drilling Methods

- Direct Push
- Continuous Flight Augering
- Hollow Stem Augering
- HQ & NG Coring
- Wet/Mud Rotary

Engine & Fuel

- Engine: Kubota 4-Cylinder Turbo Diesel, Tier 4i
- Rated Power: 58hp (42kW)
- Fuel Capacity: 17gal (64L)

Rotary & Auger Systems

- Rotary Head: 4-speed, 4,000ft-lb at 750rpm
- Augerhead: Torque 4,000ft-lb low speed, 2,000ft-lb high-speed

Winches & Clamps

- Primary Winch: 2,350lb rating, speed 0-125fpm
- Secondary Winch: 1,000lb rating, speed 0-180fpm
- Clamp/Breakout: 7-in opening, breakout torque 6,000ft-lb

Additional Tooling Options

- Geoprobe Model GH63 Hammer
- 3ft Mast Extender
- Dual Winch Kit
- Water Swivel
- Custom Rod Racks
- Hydraulic Extruder
- Breakout Accessories
- Telemetry Monitoring
- Wireless Remote Control
- Digital Control Panel with Diagnostics & Safety Features

