



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 250 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.

Over the past 8 months we have drilled over 8,000 feet, recorded 140 field days, had zero recordable incidents, and one near miss.





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 [68.58m]

Continuous flight auger, 6 in (152.4 mm) OD:
325 ft [99.06m]
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 (.325) [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]

