

Geoprobe® Model 7822DT



✔ Innovative GH63 Percussion Hammer (Geoprobe® Exclusive!)

- Advanced "Modular Percussion Power Cell Technology"
- Optional (GH64) Unique Two-Speed Bi-Directional Rotation for:
 - Surface Pavement Coring
 - Down-Hole Rock Coring
 - Provides Up-To 788 rpm at the hammer spindle
- Integrated V-Block Pull System

✔ Advanced Machine Capabilities

- Durable **Hollow Stem Auger** System with Hydraulic Swing cylinder for quick HSA set up and compact storage (two options: GA4000 to 150 rpm OR GA4100 up to 750 rpm)
- Reliable **Geotechnical Auto Drop Hammer** System
- New Advanced Control Panel w/Integrated **Self Diagnostics** System

✔ Cutting Edge Chassis Design

- New Frame Rail System (**Lets you set up the machine the way you want it!**)
- New Rear Stabilizer Blade and Drop Rack Tooling Systems
- Easy access engine compartment for simple maintenance
- Maneuvered with Wireless or Tethered Remote Systems
- Auxiliary Hydraulic Quick Connect Stations

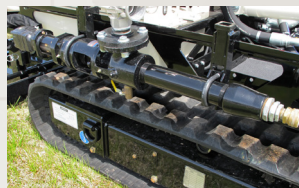


Tooling configuration for this machine:

- 3.25 in. Probe Rod System
- 2.25 in. Probe Rod System
- 1.5 in. Probe Rod System
- DT325 Soil Sampling System
- DT22 Soil Sampling System
- MC5 Soil Sampling System (2.25 in. x 5 ft.)
- SP16 Groundwater Sampling System
- SP22 Groundwater Sampling System
- DH103 Auto Hammer for SPT
- 4.25 in. Hollow Stem Augering System



Rod Rack with Machine Vise



214 Moyno® Pump



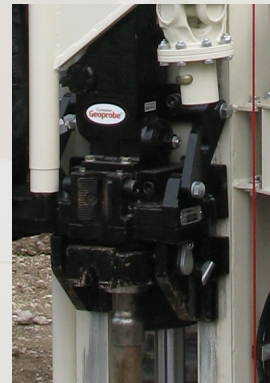
GP50DR Pressure Washer Drop Rack System



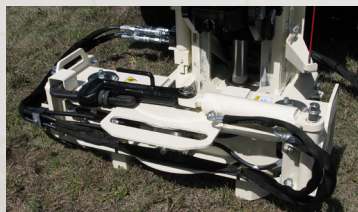
GA4000 Augerhead & DH103 Auto Drop Hammer



Redesigned Control Panel



Standard GH63 Percussion Hammer.



Hydraulic Break Out System. Easily installed and removed with hydraulic quick connects.



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7822DT Unit Platform		
Stroke	78 in.	1,982 mm
Weight (approximate)	8,000 lb	3,632 kg
Width	64 in.	1,626 mm
Length (folded)	133 in.	3,378 mm
Height, w/standard mast (folded)	100 in.	2,540 mm
Height, w/rotating mast (folded)	86 in.	2,184 mm
Height, w/dual mast (folded)	100 in.	2,540 mm
Height, no mast (folded)	79 in.	2,007 mm
Height, w/mast (unfolded)	187 in.	4,750 mm
Height, no mast (unfolded)	118.5 in.	3,010 mm
Foot Travel	20.5 in.	521 mm
Extension	15.5 in.	394 mm
Lateral Movement (side-to-side)	± 7° from centerline	
Oscillation	± 13° from vertical	
Rear Stabilizer Lift	2,000 lb	907kg
Rear Blade Width	60 in.	1,524 mm
Ground Speed	0 - 5 mph	0 - 8 kph
Surface Load	4.6 lb/in. ²	0.32 kg/cm ²
Track Width	12 in.	305 mm

Percussion Hammer		
Hammer System	GH63	
Percussion Rate	32 Hz	
Forward Torque	517 ft-lb	701 N-M
Reverse Torque	637 ft-lb	864 N-M
Rotation Speed	0 - 234 rpm	
Power Cell Weight	90 lb	41 kg

Hydraulic Systems		
Down Force	36,000 lb	150 kN
Retraction Force	48,000 lb	214 kN
Hydraulic Pressure (system)	4,000 psi	275 bar
Hydraulic Flow Rate (system)	40 gpm	151 Lpm

Engine		
Engine (diesel)	Kubota, 4-cylinder turbo, Tier 4i	
Engine Power (rated)	58 hp	42 Kw
Fuel Capacity (diesel)	17 gal	64 L

Augerhead		
GA4100 Augerhead, 4-Speed		
High Torque	4,000 ft-lb	5,423 N-M
Low Torque	400 ft-lb	542 N-M
High Speed Rotation	0 - 750 rpm	
Low Speed Rotation	0 - 75 rpm	
Hex Adapter	1 - 5/8 in.	41 mm
GH4000 Augerhead, 2-Speed		
High Torque	4,000 ft-lb	5,423 N-M
Low Torque	2,000 ft-lb	2,711 N-M
High Speed Rotation	0 - 150 rpm	
Low Speed Rotation	0 - 90 rpm	
Hex Adapter	1 - 5/8 in.	41 mm

Hydraulic Winch		
Primary Winch		
Winch Rating	2,350 lbf	10.5 KN
Winch Speed	0 - 125 fpm	0 - 38 m/min
Cable Length	75 ft	23 m
Secondary Winch		
Winch Rating	1,000 lbf	4.4 KN
Winch Speed	0 - 180 fpm	0 - 55 m/min
Cable Length	150 ft	46 m

7 in. Single Clamp Breakout		
Clamp Opening	7 in.	178 mm
Clamp Range	1.25 - 6 in.	31.75 - 152 mm
Clamp Force	0 - 17,500 lbf	0 - 78 kN
Breakout Torque	6,000 ft-lbf	8,135 N-M
Weight	350 lb	159 kg

