

GEOPROBE®

7822DT ... Direct Push Equipment



Geotechnical testing to determine structural damage at a low water crossing.

7822DT MACHINE OPTIONS

Augerhead

213944	GA4000 2-Speed Augerhead
213945	GA4100 4-Speed Augerhead

Automatic Drop Hammer

213898	DH103 Automatic Drop Hammer, 140 lb.
213899	DH103M Automatic Drop Hammer, 65 kg
213900	DH103 Mounting Kit
216826	Automatic Drop Hammer 340 lb. Expansion Kit
217067	Automatic Drop Hammer 300 lb. Expansion Kit
221820	Automatic Drop Hammer 170 lb. Expansion Kit

Water Swivels

216398	High Speed Water Swivel w/ Float
210873	Float Sub NWJ Pin Asm
210874	Float Sub NWL Pin Asm
213482	Float Sub HWL Pin Asm
212606	Water Swivel 1.625 Hex NWJ Pin Mod
212558	GH60 Series Water Swivel Asm

Mast / Winch

222959	Dual Winch Kit
222623	Winch - 5/16 in. Cable
222624	Winch - 1/4 in. Cable
222625	Winch - 3/16 in. Cable
217508	Fixed Mast Top
216244	Rotating Mast Top
213364	3 ft. Mast Extension

Rotational Safety Cage

213002	Safety Cage for Machines with no Drop Hammer
212896	Safety Cage for Machines with Drop Hammer

Breakout

212785	7 in. Single Clamp Breakout
217024	Coring Upgrade Kit for 7 in. Breakout
213421	Probe Rod Handling Clamp for 3.5 in. - 1.25 in. Probe Rods

Control System

216137	Head Feed Pressure Control Kit
213384	CPT Valve Kit

Water / Mud Pumps

210603	Moyno® 2L4 Pump & Mount Assembly - Helper Side
218263	Moyno® 2L4 Pump & Mount Assembly - Operator Side
209926	Moyno® 3L6 with Table - Helper Side
220556	Moyno® 3L6 with Table - Operator Side
221614	Triplex Pump Kit - Helper Side
219556	SPX40 Pump & Mount Assembly
222823	Control Panel Gauge Mount Kit

Hydraulic Extruder

210107	Hydraulic Extruder Mount w/ Dropdown Work Surface
210729	Hydraulic Extruder Mounts (for Side Rail)
211622	Hydraulic Extruder Mounts (for Rod Rack)
205501	Hydraulic Extruder - 60 in. Stroke
204258	Hydraulic Extruder - 48 in. Stroke
220646	3 in. Shelby Tube Hydraulic Cradle Kit
221929	3 in. Shelby Tube Cradle
215781	Extruder w/ 2L4 Mounting Kit

Rod Racks

212306	Locking Side Mount Rod Rack
209257	Side Mount Rod Rack
221534	Swing Out Rod Rack
211734	Side Rack Mount Blank

Model 7822DT Specifications

UNIT PLATFORM		
Stroke	78 in	1,981 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 degrees from centerline	
Oscillation	± 13 degrees from vertical	
Rear Stabilizer Lift	2,000 lb	907 kg
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	160 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
GA4000 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	2,500 lbf	10.5 kN
Winch Speed	0-125 fpm	0-38 m/min
Cable Length	75 ft	23 m
Secondary Winch		
Winch Rating	1,100 lbf	4.4 kN
Winch Speed	0-220 fpm	0-55 m/min
Cable Length	250 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

Geoprobe® Tooling Run with 7822DT

60-in. Direct Push Tooling

- Probe Rod Sizes: 3.75 in., 3.5 in., 3.25 in., 2.25 in., 1.5 in., 1.25 in.
 - Direct Image® Tooling
 - Macro Core® MC5 Soil Sampling (2.25 in. x 5 ft.)
 - DT22 Soil Sampling
 - DT325 / DT35 / DT375 Dual Tube Soil Sampling
 - SP22 Groundwater Sampling
 - SP16 Groundwater Sampling
- 2.0 in., 1.5 in., 1.0 in., 0.75-in. Prepacked Monitoring Well Installations
 - DH103 Auto Hammer for SPT
 - 4.25 in. and 6.0 in. H S A System



7822DT gathers geotechnical information for a new mining site.



Installing 17 wells inside building.



Squeezing between buildings.

7822_{DT}

• Rock Coring Compatible

• Reliable Geoprobe®
GH60 Series Percussion Hammer

• Modular Percussion Power Cell
Technology

• Two- and Four-Speed Augerhead
(optional)

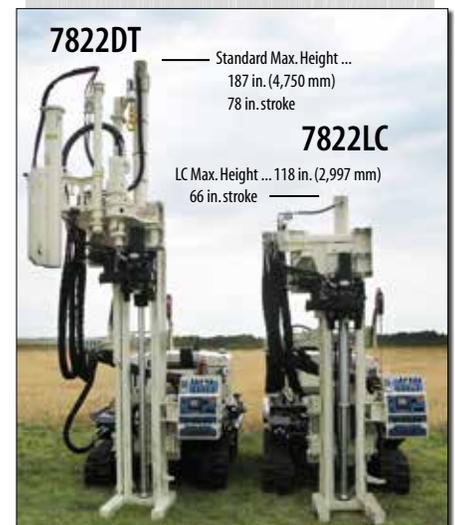
• Dual Winch Option

• Frame Rail Design for Adding
Machine Accessories

• Tethered and Wireless Control

• Integrated Drill Mast Oscillation

• Rear Blade for Stabilization and
Tooling Transport



Geoprobe Systems®
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