## 7800 MACHINE OPTIONS

### Augerhead
- 219256 GA4000 2-Speed Augerhead
- 219454 GA4100 4-Speed Augerhead

### Automatic Drop Hammer
- 213898 DH103 Automatic Drop Hammer, 140 lb.
- 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
- 210126 Automatic Drop Hammer 65 kg Expansion Kit

### Water Swivels
- 216398 High Speed Water Swivel w/ Float
- 210873 Float Sub NWJ Pin Asm
- 210874 Float Sub NWL Pin Asm
- 215482 Float Sub HNL Pin Asm
- 212606 Water Swivel 1.625 in. hex NWJ Pin Mod
- 212558 GH50 Series Water Swivel Asm

### Mast / Winch
- 222816 5/16 in. Winch Kit (Single)
- 222817 1/4 in. Winch Kit (Single)
- 222818 3/16 in. Winch Kit (Single)
- 217508 Fixed Mast Top
- 213514 3 ft. Mast Extension

### Breakout
- 212786 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

### Rotational Safety Cage
- 213002 Safety Cage for Machines with No Drop Hammer
- 212896 Safety Cage for Machines with Drop Hammer

### Control System
- 216137 Head Feed Pressure Control Kit
- 213384 CPT Valve Kit

### Water / Mud Pumps
- 215811 Moyno® 2L4 Pump & Mount
- 210693 GP50 Base Module
- 222833 Water Carrier Kit 50 gal
- 222834 Water Carrier Kit 50 gal w/ pump

### Hydraulic Extruder
- 213465 60 in. Extruder Kit
- 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
- 211734 Side Rack Mount Blank

### Storage
- 212139 Rear Underbody Storage Package
- 212338 Underbody Storage - Passenger Side
- 212237 Underbody Storage - Driver Side
- 214351 Underbody Storage Package - Both Sides

### Water Transport
- 219610 50 gal Water Carrier Kit w/ Pump
- 215140 50 gal Water Carrier Kit
Model 7800 Specifications

**UNIT PLATFORM**
- **Stroke**: 78 in, 1,981 mm
- **Weight (approximate)**: 8,250 lb, 3,746 kg
- **Width**: 96 in, 2,438 mm
- **Length (folded)**: 133 in, 3,378 mm
- **Height (folded)**: 116 in, 2,946 mm
- **Height, (unfolded)**: 184 in, 4,674 mm
- **Foot Travel**: 45 in, 1,143 mm
- **Extension**: 16 in, 406 mm
- **Lateral Movement (side-to-side)**: ± 7 degrees from centerline
- **Oscillation**: ± 13 degrees from vertical

**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

**BP50 POWER UNIT**
- **Engine (diesel)**: Kubota, 4-cylinder turbo, Tier 4i
- **Engine Power (rated)**: 58 hp, 42 Kw
- **Fuel Capacity (diesel)**: 17 gal, 64 L
- **Cooling System**: Liquid
- **Power Unit Weight**: 1,700 lb, 772 kg
- **Power Unit Dimensions**: 42 in L x 30 in W x 30 in H

**AUGERHEAD**
- **GA100 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

- **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

**HYDRAULIC WINCH**
- **Winch Rating**: 2,500 lbf, 10.5 kN
- **Winch Speed**: 0-125 fpm, 0-38 m/min
- **Cable Length**: 75 ft, 23 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 7800
- 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® MCS 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**