Geotechnical Sampling – Powerful, Flexible, Fast, Easy on Drillers

The Geoprobe® 3100GT Geotechnical Rig is designed to quickly perform SPT borings (augers & mud rotary), collect Shelby tube samples, take rock cores, and push CPT cone.

**Multiple Rotary Head Options**

(Full torque in forward and reverse for all head options)
- GA4000 (4,000 ft-lb, 150 rpm)
- GA4100 (4,000 ft-lb, 750 rpm)
- CB5 (5,500 ft-lb, 600 rpm)

**CPT (Cone Penetration Testing)**
- Setup for CPT Push / Pull

**Hands-Free Automatic Drop Hammer**

**Swing Out 7 in. Breakout**

**26 in. of Head Side Shift**

**Drill Mast**
- 105 in. of head feed travel
- 36,000 lb. of push force
- 48,000 lb. of pull force
- Extend, Swing, Mast Dump, Oscillation, and Fold
- Direct Push Options

**Control Panel**
- Manual controls provide tactile feel
- Electric controls add SAFE, HANDS-FREE operation

**Telescoping Winch Mast**
- Allows tripping out of 20 ft. lengths of rod when combined with 3 ft. extension
- 6,800 lb. primary winch
- 1,800 lb. secondary winch with quick change hook

**Mud Pumps**
- Multiple configurations available

geoprobe.com/3100gt
### Weight & Dimensions

Unit Weight (w/ typical options) 18,200 lb. (8,255 kg.)

### 3100GT Options

#### Geotech Head Options

- 231411 Geotech Head Assembly - 2 Speed Rotary Head (4,000 ft-lbf, 150 rpm), Automatic Drop-Hammer, 140 lb.
- 228807 Geotech Head Assembly, 4 Speed Rotary Head (4,000 ft-lbf, 750 rpm) Automatic Drop-Hammer, 140 lb.

#### Direct Push Head Options

- 231412 Direct Push Head Assembly
- 219344 2 Speed Rotary Head (4,000 ft-lbf, 150 rpm)
- 219345 4 Speed Rotary Head (4,000 ft-lbf, 750 rpm)
- 213900 Drop Hammer Mounting Brackets
- 213898 Automatic Drop-Hammer, 140 lb.
- 213899 Auto Drop Hammer, 65 kg.

#### Automatic Drop Hammer Options

- 216826 Automatic Drop-Hammer 340 lb. Expansion Kit
- 217067 Automatic Drop-Hammer 300 lb. Expansion Kit
- 211830 Automatic Drop Hammer 170 lb. Expansion Kit
- 210126 Weight, 65 kg.

#### Water Swivels

- 231052 High Speed Water Swivel with Float
- 210873 Float Sub NWJ Pin Assembly
- 210874 Float Sub NWL Pin Assembly
- 213482 Float Sub HLW Pin Assembly
- 231535 Water Swivel 1.625 Hex NWJ Pin

#### Mast / Winch

- 229063 Telescoping Dual Winch Mast
- 230991 Winch Kit: 6,800 lb
- 230988 Winch Kit: 2,500 lb with Quick Change Hook
- 230989 Winch Kit: 1,800 lb with Quick Change Hook
- 230990 Winch Kit: 1,100 lb with Quick Change Hook
- 231584 3 ft. Mast Extension
- 229264 Drill Mast Outrigger Kit

#### Breakout

- 230981 7 in. Breakout Kit
- 217024 Goring Upgrade Kit for 7 in. Breakout

#### Control System

- 232037 Head Feed Pressure Control Kit
- 207870 Control Panel Display Screen Heater Kit

#### Water / Mud Pumps

- 231472 Moyno® 3L8 Pump Kit
- 230333 Moyno® 3L6 Pump
- 231580 3L6 Water Line Kit - 1.25 in. Hose

#### Hydraulic Extruder

- 232038 Hydraulic Extruder Kit
- 221929 3 in. Shelby Tube Cradle

#### Toolboxes / Rod Racks

- 212337 Underbody Storage Kit - Driver Side
- 212338 Underbody Storage Kit - Passenger Side
- 212339 Rear Underbody Storage Package
- 229287 10 in. Tool Rack, Side Mount

#### Mud Pans

- 217038 Aluminum 100 gal Mud Pan
- 213484 Steel 40 gal Mud Pan

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**Rig shown with optional features. Weights & dimensions subject to change without notice.**

**View full specifications online at geoprobe.com/3100gt**

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**Typical Geoprobe® Tooling for the 3100GT**

- SPT Sampling (Interlocking Split Spoon Sampler, Dual Tube with 1.75 in. or AWJ Center Rods, 3.25 HSA, 4.5 in. Solid Auger, Mud Rotary)
- Cone Penetration Testing (CPT)
- Direct Push
  - 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.*
  - Macro Core® Soil Sampling (MC5, MC7)
  - Dual Tube Soil Sampling (DT37, DT35, DT325, DT22)
  - Groundwater Sampling (SP22, SP16)
  - Prepacked Monitoring Well Installations (2.0 in., 1.5 in., 1.0 in., 0.75-in.)
  - Direct Image® Tooling
  - HSA System (4.25 in. and 6.25 in.)

* Center Rod Use Only