

# Direct Push Analytical Corp.

## Grouting and Injection Services

### Grout/Injection Machine

Geoprobe® Systems manufactured the first grouting/injection system designed specifically for Direct Push applications. With a powerful reciprocating (piston) pump, the Geoprobe® Grout Machine can easily deliver standard ASTM **grout or remediation** materials through 1.25-inch diameter Geoprobe® probe rods or through 3/8-inch (1/4-inch inside diameter) polyethylene tubing.



No more pouring bentonite chips down the probe hole and hoping for the best! The Geoprobe® Grout Machine assures you that the hole is sealed completely from the bottom up! This allows operators to meet state requirements for bottom-up sealing of boreholes.

Our pump utilizes a hydraulically-driven piston pump capable of providing operating pressures up to 1000 psi. The pump uses a self contained power source and delivers between 0.9 and 2.3 gallons per minute. Additionally, the pump has a 9.5 gallon hopper and weighs only 225 pounds (when empty).

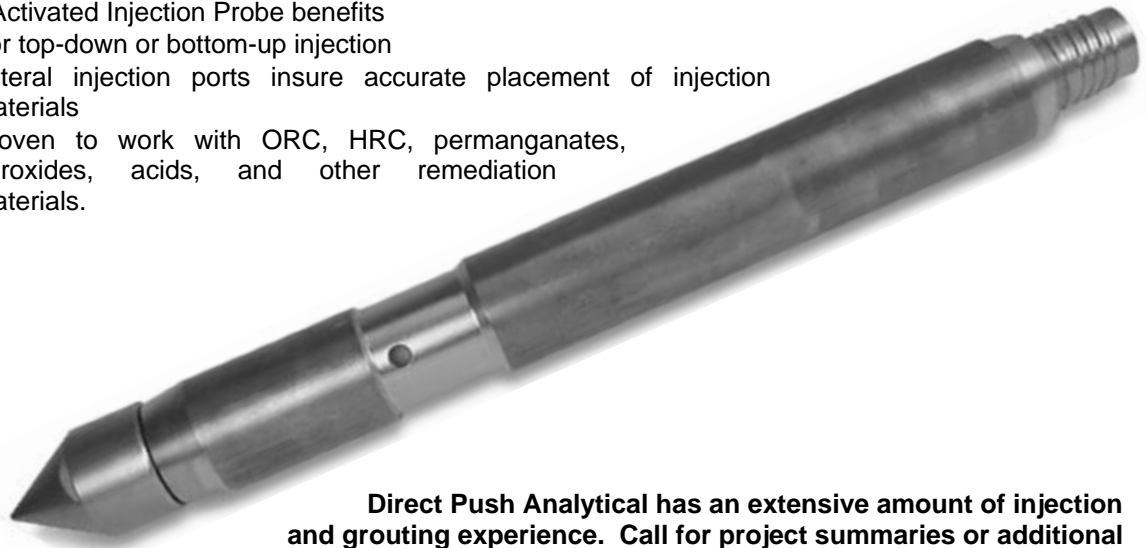
**Figure 1: GS1000 Grout/Injection Pump**

### Pressure Activated Injection Probe

The Geoprobe Pressure Activated Injection Probe Assembly threads to the leading probe rod for the injection of **remediation materials**, allowing materials to be injected laterally into the subsurface. This probe incorporates an internal check valve to keep soil out during driving/retraction, eliminating material “backflow” through the tool string and keeping the tool string from clogging while probing to depth.

#### Pressure Activated Injection Probe benefits

- For top-down or bottom-up injection
- Lateral injection ports insure accurate placement of injection materials
- Proven to work with ORC, HRC, permanganates, peroxides, acids, and other remediation materials.



**Direct Push Analytical has an extensive amount of injection and grouting experience. Call for project summaries or additional information.**



**[www.DirectPushOnline.com](http://www.DirectPushOnline.com)**

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