

Geo-Jet Soil-Cement Foundation System

The Geo-Jet System is used to form uniform quality soil-cement columns for foundations. The system utilizes current technologies in mechanical cutting, jet mixing, high-volume cementing, and computer-controls. The equipment utilizes a soil processor, equipped with custom designed cutting blades and multiple jetting nozzles, to mix soil and cement at pressures up to 5000 psi. Pre-designed parameters of density and strength, and quality assurance are ensured by a microprocessor that monitors, controls, and provides feedback on the installed mixed column. Sensors located on the processor provide continuous feedback on soil conditions, density of cement, installation speed, and depth when the system is used for structural pile installations, ground improvement, and shoring systems. The Geo-jet System provides an accurate real-time record of the drilling and mixing processes used. Operational features of the Geo-jet System include drill rates up to 15 feet per minute, applications in soils ranging from soft clays to dense sand, elimination of noise and vibration, and the ability to work in caving ground with a high water table. The Geo-jet also contains and treats contaminated soil so that it can be left in the ground.

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