

JET GROUTING



As a leader in the use of grouting techniques, Nicholson Construction Company has gained a wealth of experience employing different jet grouting systems in a variety of soils throughout the country. The jet grouting process Nicholson uses consists of breaking up the soil with a high-pressure jet in a predrilled borehole and mixing the loosened soil with a cement grout to form columns, panels and other structures in the ground. Nicholson's range of jet grouting processes include single (cement only), double (cement with air) or triple (cement with air and water) fluid methods. Recently we have added our proprietary JETPLUS nozzles, which allow us to cut larger diameter columns through increased jetting efficiency.

Nicholson determines the most appropriate system for each project by the type and geotechnical properties of the soil to be treated, the radius of action of the jet needed to achieve the required size of the mixed-in-place structure, the desired mechanical post-treatment soil properties, and the site constraints and its environment.

COMMON USES:

- Secant Columns Cutoff
- Secant Panels Cutoff
- Secant Column Bottom Slab
- Tunnel Treatment
- Underpinning
- Shaft Treatment