

# RAS COLUMN

For Large Diameter, Homogenous Column Improvement



## Large Diameter and Homogenous Improvement with RAS Column

RAS Column is an advanced deep soil mixing method based on mechanical soil mixing technology to produce soil-cement column of 1.4 to 2.5 m diameter.

The mixing head is equipped with the counter rotation mechanism where the bottom auger and mixing blades rotate clockwise while the upper mixing blades rotate counter-clockwise. This unique mechanism efficiently breaks and mixes in-situ soil with cement-based reagents, producing more homogenous and higher quality soil-cement columns. It completely eliminates

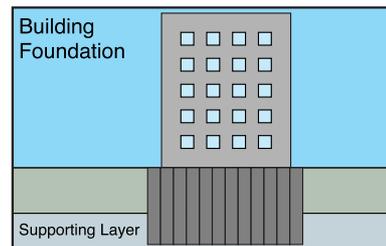
the "turning together" problem, often encountered by conventional mechanical soil mixing methods, that cohesive soil co-rotates with the mixing head, causing insufficient mixing and unexpected deficiency of columns.

RAS Column efficiently improves foundation soil of building and civil engineering structure to increase bearing capacity and prevent liquefaction.

### Advantages

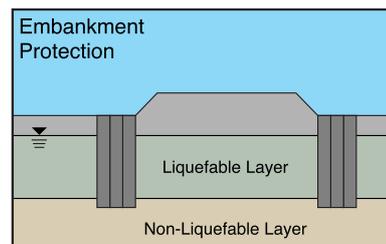
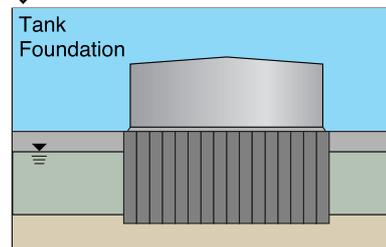
- 1 Applicable to a wide range of soils, providing excellent quality improvement.
- 2 Large diameter column improvement of dia. 1.4m to 2.5m
- 3 Uniform mixing and homogenous product quality due to counter-rotation mechanism
- 4 Computer-based control and monitoring system ensures quality improvement
- 5 Improvement efficiency in product strength and production speed saves on cost.
- 6 Flexibly adaptable to site-specific improvement requirements
- 7 Low noise and low vibration system

### Application



#### Improvement of Foundation Soil

- ◇ for buildings
- ◇ for tanks
- ◇ for retaining walls
- ◇ for culverts

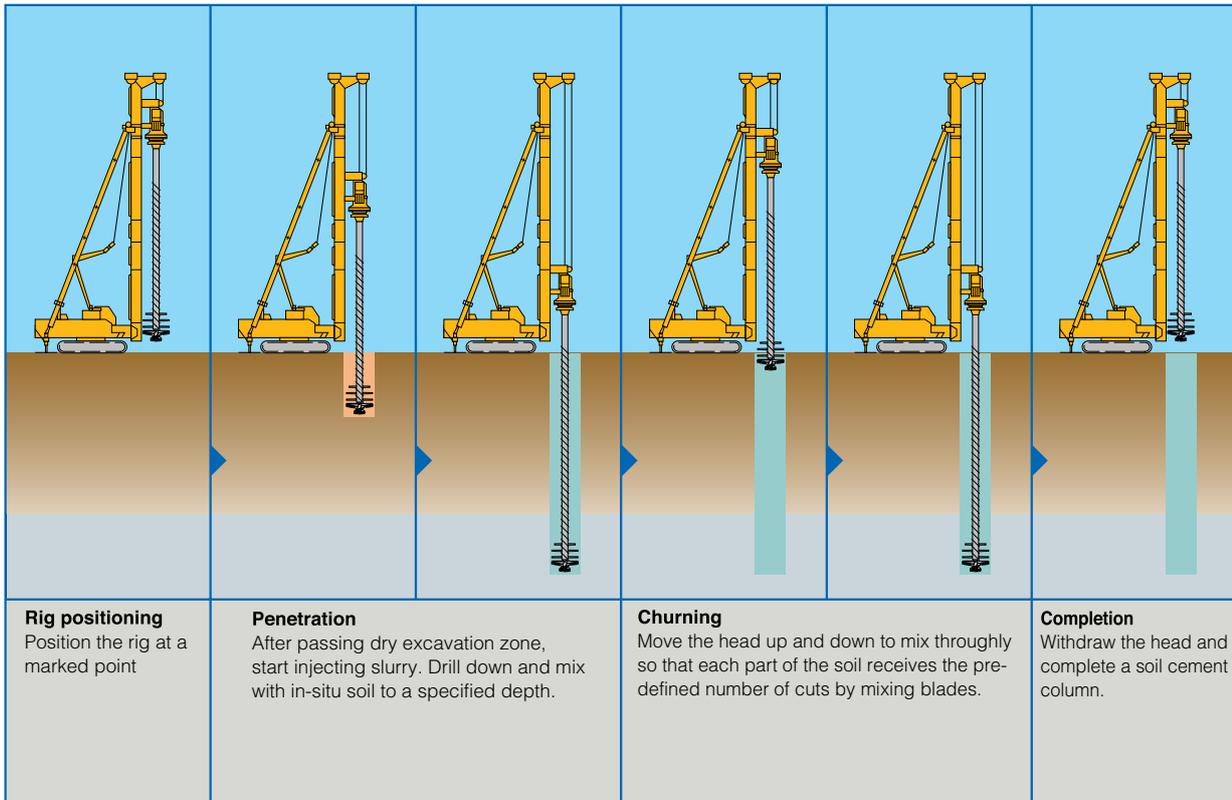


- ◇ To prevent Liquefaction
- ◇ To prevent Settlement
- ◇ To prevent Slip failure of embankment
- ◇ To prevent Uplifting
- ◇ To construct subsurface strut

### Improved Column



## Construction Process



## Control System

