

## Vibro Concrete Columns



**Vibro Concrete Columns** are reinforced, compacted columns commonly used in areas that require higher loads and are installed through very soft soils (peat or other organic deposits) in order to transfer loads to more competent load-bearing strata. Vibro Concrete Columns are used in cases where the soils are so soft and unstable that installation of stone columns would be difficult, or where the stone columns would not have sufficient lateral confinement to adequately carry vertical loads.

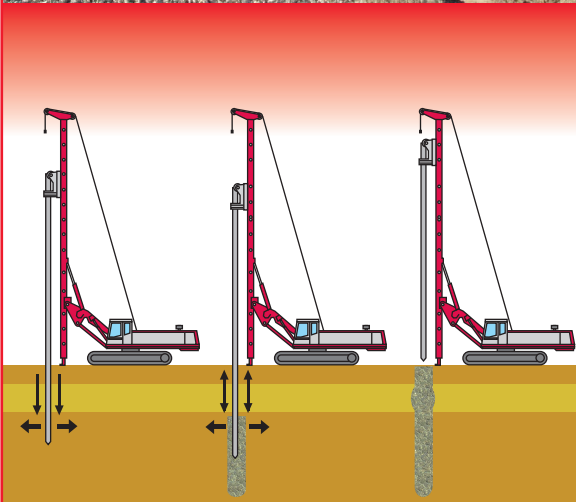
### Vibro Concrete Columns Applications

- Industrial Warehouses
- Commercial Buildings
- Residential Buildings
- Roadway Embankments
- Airport Runway Embankments
- Bridge Abutments
- MSE Retaining Walls

### Menard Vibro Concrete Columns

Vibro technologies involve the use of a vibroflot, a vibrating probe suspended from a crawler crane. As the vibroflot is lowered, it penetrates weak soils until reaching the required depth. Depending on soil conditions and intended site use, a variety of techniques can be employed to create the compacted columns.

Menard Vibro Concrete Columns are accomplished by filling the borehole with concrete rather than stone. The vibroflot penetrates the soil until it reaches a suitable load-bearing stratum. Concrete is discharged at the bottom of the column to form an enlarged basal bulb, and then discharged continuously to form a column as the probe is withdrawn.



*Vibro Concrete Columns are installed by inserting the vibratory probe, injecting concrete through a side feeder tube to initially form a bottom bulb, and retracting the probe while continuing to inject concrete to form the remainder of the column.*