

A background image of a construction site. In the foreground, there is a large yellow excavator and other construction equipment. In the background, a large, ornate building is under construction. The building has a sign that reads "Welcome to the ASBURY PARK Boardwalk". The image is overlaid with a dark blue gradient.

# GROUTED HELICAL PILES



## GET FAMILIAR

The Grouted Helical Micropile creates a grout-filled column around the shaft of a traditional helical pile. It is simple in theory and effective in practice.

The uncased grout column is used primarily for increased frictional capacity and prevention of shaft buckling in soft soils. The steel or PVC cased grout column is used primarily to resist larger lateral loads or when the pile will be exposed for excavation support.

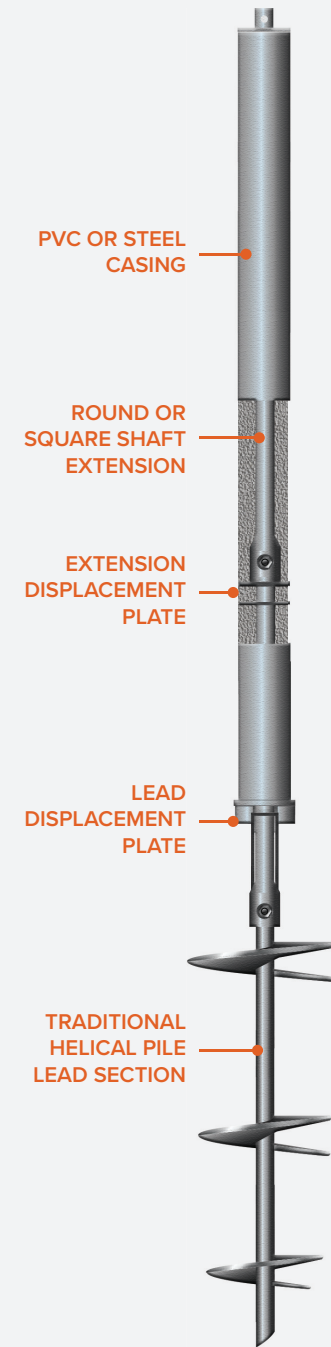
The Grouted Helical Micropile combines a rough grouted skin friction annulus with strong helix plate end-bearing. This results in a higher capacity helical pile system.

## INSTALLATION

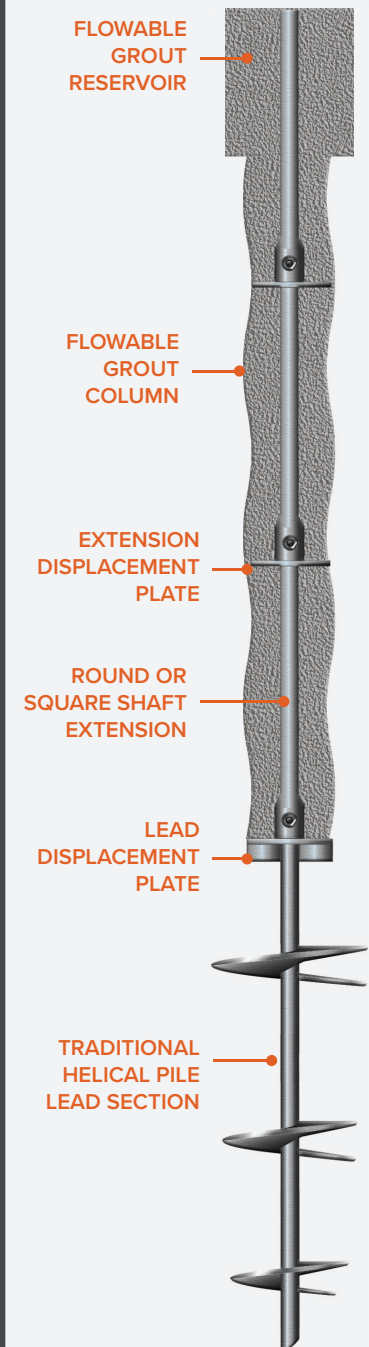
A hydraulic torque motor is mounted to standard construction equipment such as skid steers, mini excavators, or any other machine with hydraulic capabilities. Continuous torque and crowd is applied to advance the Grouted Helical Micropile into the soil.

The displacement plate advances along with the helical, creating a cylindrical void which is immediately filled with grout from the reservoir at the surface.

## CASED



## UNCASED



# FEATURES+BENEFITS

- Stiffer pile (deflects less at a particular load)
- Can be installed in high water tables
- Ideal for limited access and low headroom sites
- Repeatable results
- Economical foundation system
- Offers friction and end-bearing capacities
- High installation rates possible.
- Higher capacities than traditional helical piles
- Minimal mobilization and demobilization costs
- No pre-drilling is required
- Resistance to buckling in weak soils
- Proven engineered system
- Custom brackets for various applications
- Grout columns provide additional protection in corrosive soils

# APPLICATIONS

- COMMERCIAL BUILDING REMEDIATION
- SANITARY PIPELINE SUPPORT
- SUBSTATIONS
- BULKHEADS
- SHORING PIPELINE
- SOUND WALLS
- MACHINE BASES
- ROADWAY SIGNAGE TRAFFIC SIGNALS
- STORAGE TANKS AND SILOS
- UTILITY ANCHORING
- BILLBOARD/SIGNAGE
- GENERATOR BASES



# YOUR IDEAL GROUP

The IDEAL Group of companies has evolved from three generations of experience in building design and construction. We have been manufacturing since 2004 with an enduring commitment to excellence in every aspect of our market. Having manufactured and installed thousands of deep foundation elements, IDEAL Manufacturing has gained indispensable knowledge of the deep foundation industry.

IDEAL is recognized for “Excellence in Customer Support”, value-added engineering, timely delivery, custom products, pricing, and a comprehensive product range.

IDEAL products are produced by highly skilled and certified welding technicians in our 60,000 sq. ft. ISO –9001 certified factory. Our energetic team has “custom- build” capabilities for your specific project needs.



# OUR MISSION

To provide our clients and associates with proprietary technology, products, equipment, and support, ensuring excellence in the design and performance of deep foundation and earth anchoring projects.