

# HELICAL PILING SYSTEMS

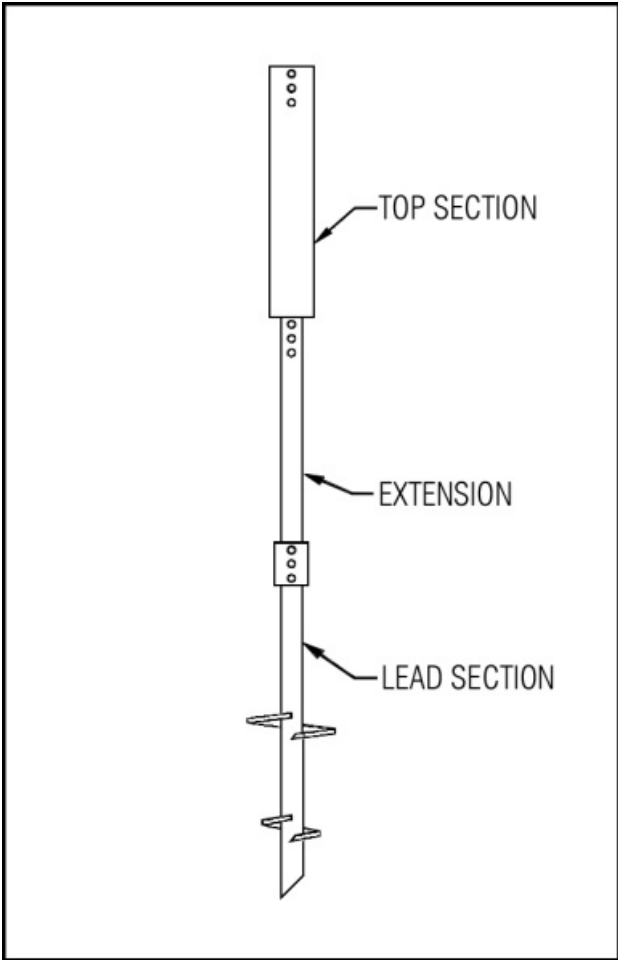


ENGINEERED  
SOLUTIONS FOR  
FOUNDATION  
APPLICATIONS





# ADVANCED TECHNOLOGY FOR DEEP FOUNDATIONS



## ENGINEERED HELICAL PILING SYSTEMS

Since 1981, Cyntech has been committed to providing innovative and cost effective solutions to the energy and construction industries.

Cyntech's helical piling systems for deep foundations have been successfully utilized for a wide range of applications. Compared to other types of foundations, helical piles offer attractive benefits by conserving labour, material, equipment and installation time.

Typical applications for Cyntech's helical pile system include foundations for:

- Pipe racks
- Pipe bridges
- Valves and scraper traps
- Skid mounted buildings and equipment
- Building and equipment floor slabs
- Street light foundations
- Tower foundations
- Manifolds

..... or to replace any deep foundation where wood, concrete, steel or augercast piles are being considered.



Pipe Support



Skid-Steer Installation

## QUICK SIMPLE INSTALLATION

Helical piles are screwed into the soil, not driven or vibrated, nor is a hole dug or drilled. The soil around the pile remains undisturbed.

Predictable holding capacity is achieved by monitoring installation torque of the pile during construction. Monitoring installation torque is similar to monitoring blow counts of driven piles for predicting pile capacity.

A typical helical pile can be installed in minutes using standard equipment such as a pole line truck, excavator, backhoe, skid steer or picker truck. After installation, the load can be applied immediately - no additional work is required.

Helical piles are ideal in areas of limited access, such as areas with low overhead or width restrictions. Installation is unaffected by weather or high water table. No vibration during installation means no damage to sensitive structures or instrumentation in the construction zone.

## FEATURES

- Reduced construction time
- No excavation or spoil removal
- Installation unaffected by weather
- Holding capacity verified during installation
- No harmful vibrations during installation
- Ideal for areas of limited access or restricted workspace
- Construction unaffected by high water table
- Removable and reusable
- Installs with common construction equipment
- Interfaces with structural steel members
- Interfaces with concrete slabs or sleepers
- Lightweight, easy to handle and transport
- Minimum laydown area required
- Small, mobile installation equipment

## FLEXIBILITY

A helical piling system can be custom designed for your specific application. Cyntech will provide complete turnkey design and installation services, or our professional engineers and technicians will work with you to specify the optimum foundation system for your project. Ease of installation and superior performance features combine to make Cyntech helical piling systems a solid investment.



Congested Area Installation



Restricted Space Installation



Tank Base Foundation



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