



IDEAL

Group



HELICAL PILES FOR LOADS
UP TO 700 TONS



GET FAIR

The unit is called a **helical pier** if it resists tensile loads, which are usually helical units function as both piers and

A helical unit is installed by simply screwing the central shaft may be round or square or solid. Hollow (pipe shafts) are often used to provide a greater section modulus for pipe shafts, as compared to solid shafts, provide greater resistance to installation under compressive loads.

A typical helical unit is shown to the left of the steel shaft, to which can be attached as necessary. The central shaft can be lengthened as necessary.

Pipe shafts range anywhere from 2 1/2" to 4" helices range anywhere from 5" to 40" seldom less than 3/8" thick.

Experience and theory have combined to determine preferred spacing between multiple helices diameters of the preceding helix.

The final component to the helical unit is the Load Transfer Device (LTD). This is used to transfer load from the structure to the helical pier.

Simply put, the helical unit transfers load from the structure to the helical pier to competent soil strata below income

BRACKET OR
LOAD TRANSFER
DEVICE (LTD)



EXTENSION



BOLTED
COUPLING



LEAD SECTION



HELIX



THE ASSOCIATED D FOR MANY DECADES, NYTHING BUT ANTIQUATED.

... room for improvement.
and today we manufacture
behind any misconceptions
to offer. We're going places.



CATIONS

atural load to deeper, stronger, and less compressible materials bypassing any or the support of conventional shallow foundations.

applications that would call for a driven pile, drilled pier, or mini pile.

any of the applications below whether it's a new build or existing structure.



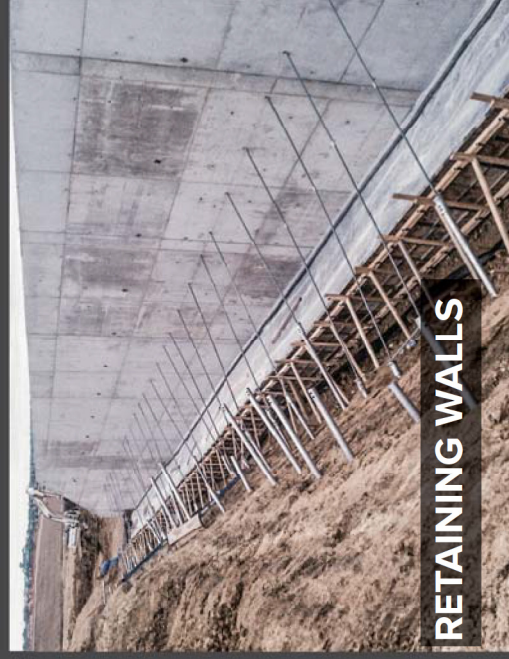
SUPPORT



COMMERCIAL UNDERPINNING



NEW CONSTRUCTION



RETAINING WALLS

COMMERCIAL BUILDING REMEDIATION

SANITARY PIPELINE SUPPORT

TILT-UP WALL ANCHORS

WORK CAMP FOUNDATIONS

TOWERS – QUAD BASE

TOWERS – MONOTUBE

UTILITY ANCHORING

SUBSTATIONS

LIGHTING <50FT

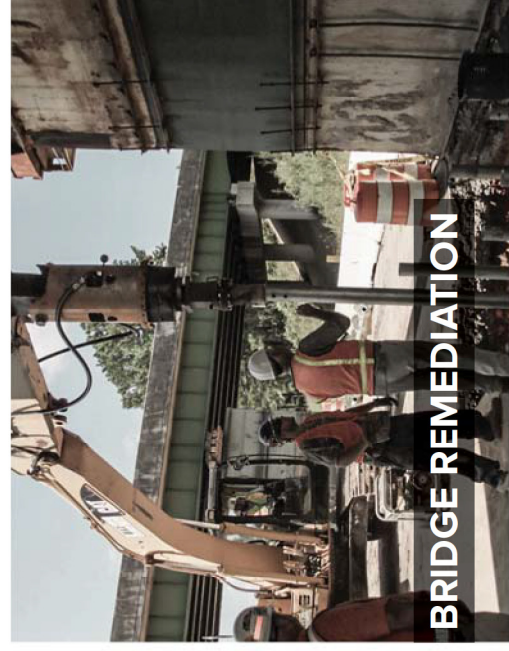
SOUND WALLS

BRIDGES/BOARDWALKS/DOCKS

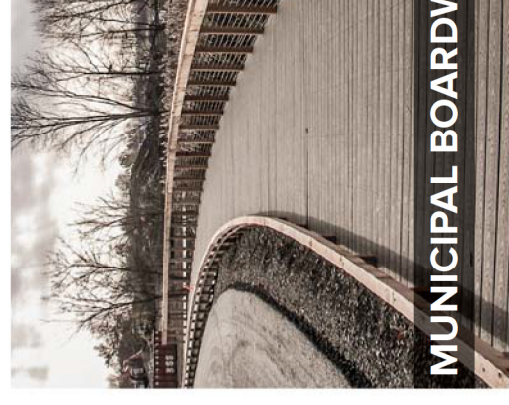
ROADWAY SIGNAGE TRAFFIC

BILLBOARD/SIGNAGE GENERAL

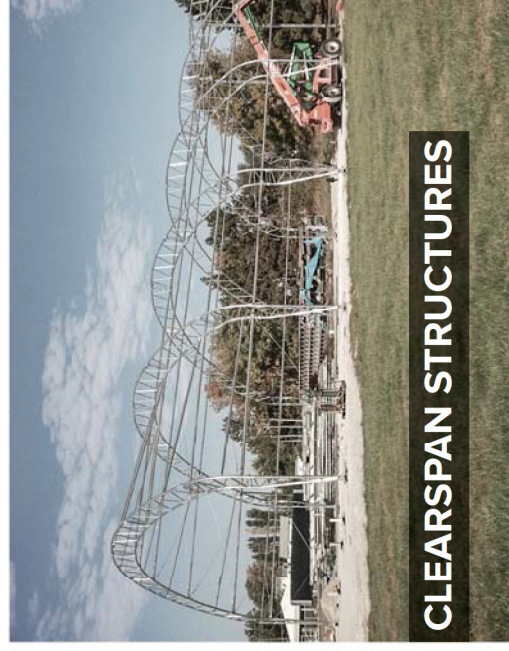
TIE-DOWNS/MOORINGS



BRIDGE REMEDIATION



MUNICIPAL BOARDWALKS



CLEARSPAN STRUCTURES



MACHINE BASES

ES

Some of these include:

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be installed to lesser depths and

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huge advantage when working at

other urban projects surrounded by

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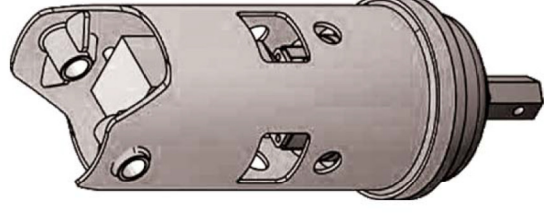
ates and you might be as surprised

INSTALLING

A helical screw pile is rotated into the ground by using a hydraulic drive head, powered by an excavator, pile driving rig, or any other equipment with hydraulic capability. IDEAL requires installers to monitor installation torque and pile alignment during the installation process. This is required for a few reasons.

First, it is important to have a qualitative assessment of the soils being penetrated at various depths. Using a graph, the recorded installation torque and depth is interpreted against the existing soil data to obtain a correlation that enables a simple verification strategy to be determined.

The soil data is interpreted against the installation torque and a correlation is obtained to maintain the integrity of the helical screw pile during installation as well as mitigate damage by exceeding the allowed torsional strength to any of the pile's components. Every helical screw pile has a maximum stress level that must not be exceeded in order to avoid compromising the structural integrity of the helical screw pile unit.



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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.