

NEW CONSTRUCTION

Helical pile foundation system



THE CHANCE® HELICAL PILE FOUNDATION SYSTEM

gives you the performance of concrete without the drawbacks and liabilities of driven piles and drilled shafts.

Helical Piles are designed to resist loads for most foundation applications. They install fast and with lightweight, standard equipment. With no concrete to cure, you can load immediately, keeping you in control and on schedule.

Chance products have received a comprehensive evaluation report ESR-2794 from ICC Evaluation Service (ICC-ES). Building officials, architects, contractors, specifiers, and engineers utilize the reports to provide a basis for using or approving helical anchors and piles in construction projects. With more ICC-ES reports than any other helical pile brand, you can design confidently with Chance helical piles.

HOW IT WORKS

The Chance Helical Pile is a segmented deep foundation system with helical bearing plates welded to a central shaft. Load is primarily transferred from the shaft to the soil through these bearing plates.

They install with a hydraulically powered torque motor mounted to virtually any machine such as a rubber tired backhoe, digger-derrick truck, track-hoe excavator, or front end skid-steer loader.

As a result of their true helical shape, the helices do not auger into the soil but rather screw into it with minimal disturbance. The first section is called the lead or starter section and contains the helical plates. Extensions are added to the helical pile system until load bearing strata or necessary torque capacity is achieved.

CHANCE ADVANTAGES

- Fast installation
- Immediate loading - no concrete to cure
- Engineered foundation solution
- Instant torque-to-capacity feedback for production control
- Load capacity based upon torque correlation
- Easy field modification
- Easy to use in limited access sites, high water tables and weak surface soils
- No spoil removal
- No casing required for flowable sands, soft clays or organic soils
- Minimizes soil disturbance during installation.
- All weather installation
- No vibration
- Environmentally friendly
- Hot dip galvanized to ASTM A153 & A123
- ISO 9001 Certified
- Building code evaluated (ICC-ES, ESR-2794)
- Made in the U.S.A.

SOLID ADVANTAGES FOR NEW CONSTRUCTION AND BEYOND



The Chance Helical Pile Foundation System is excellent for a wide range of commercial, industrial, institutional and residential applications — from new homes and high-rise structures to sound walls, communication towers and bridges.

APPLICATIONS:

- New construction supporting foundation grade beams, column bases, compression, tension and concrete slabs.
- Repairing failed or old foundations using time-tested engineered solutions.
- Retrofit foundations in existing structures where new loads are being added or under existing concrete slab.
- Permanent battered piles to take lateral loads, including wind and seismic.
- Machinery and/or equipment foundations for immediate loading with increased capacity.
- Wind and seismic loading applications such as sound walls, billboards, communication towers including permanent tension hold downs.
- Foundation support in tight access or inaccessible areas, primarily vertical axial compression loading.
- Permanent or temporary structural shoring and earth retention.
- Foundations in noise-sensitive areas where vibration is a concern.

RELIABLE HARDWARE:

SQUARE SHAFT (SS): Best for penetrating dense soil, easiest to install

ROUND SHAFT (RS): Resistant to buckling, resists lateral load

COMBO PILES (SS+RS): Good penetration and lateral load resistance

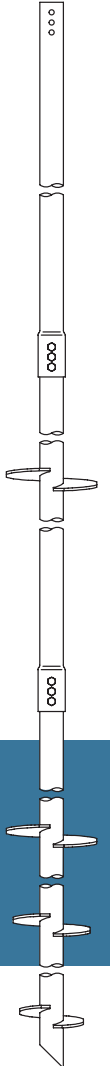
PULLDOWN PILE: Added grout column resists buckling and adds capacity

HELICAL EXTENSIONS are added to all types to provide additional helix plates for added capacity in load-bearing soil.

PILE CAPS transfer compression and tension forces from the structure to the foundation.

THE SHAPE OF STABILITY:

The true helix geometry of each steel bearing plate minimizes soil disturbance during installation.



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www.chancefoundationsolutions.com

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