



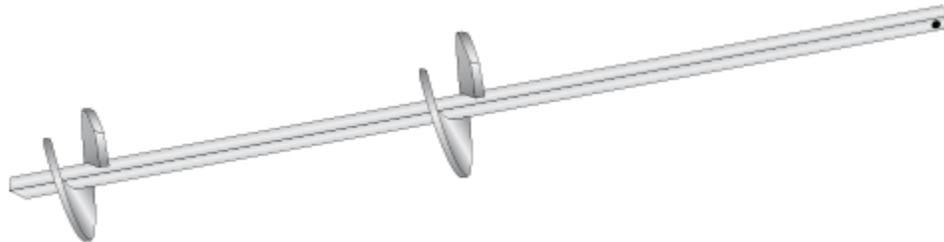
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Helical Piers and Piles

ECP helical piers are ideal for applications where there is a need to resist a tension or compressive force or both. When combined with an ECP helical bracket, these helical screw anchors are ideal for foundation repair applications. ECP helical piers have been used in many utility and civil construction projects over the years, from guy wire applications to underpinning and soil nail applications, upon installation helical piers load tested to prove their capacities.

Earth Contact Products recommends that only a registered engineer design and oversee the design and application of helical piers when used in foundation repair or new construction projects. Remember, not all helical piers are equal. On your next project make the ECP helical pier your foundation repair solution of choice.

Many times helical piers and helical anchors are the best solution for your foundation project due to one of the following factors:



- Ease of Installation
- Little to No Vibration
- Immediate Load Transfer upon Installation
- Installed Torque Correlates to Capacity
- Easily Load Tested to Verify Capacity
- Installs Below Active Soils
- All Weather Installation
- Little to No Disturbance to Jobsite

Helical Anchors

ECP Helical Torque Anchors™ are a part of the complete product line of helical piers, steel piers and foundation repair products manufactured by Earth Contact Products, LLC, based in Olathe, Kansas. Our USA manufacturing facility produces all components and steel assemblies under the strictest quality control standards. Because of our unique facilities we are able to custom configure products to fit engineered specific applications. Earth Contact Products uses only certified welders and robotic welding procedures for quality fabrication of all helical piers and helical piles.



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Torque Anchor™ Components

The ECP Torque Anchor™ consists of a shaft fabricated from either solid square steel bar or tubular steel. Welded to the shaft are one or more helical plates. The plates can vary in diameter from 6” to 16” and have a thickness of 3/8” or 1/2” depending upon the soil and the application. Typically the plate diameters increase from the bottom of the shaft upward and are spaced a distance of three times the diameter of the plate directly below, unless specified otherwise by the engineer. The standard thickness for all helices is 3/8 inch, except the 16” diameter which is manufactured only in 1/2” thickness. In high load applications a helix thickness of 1/2” may be specified for all plates. The pitch of the helical plate is three inches, which means that the anchor advances into the soil a distance of three inches during one revolution of the shaft.

The available helical pile lead shaft lengths are 10”, 60”, 84” and 120”, however, other lengths may be specially fabricated. Because helical screw anchors are considered deep foundation elements; they are usually installed into the soil to a depth greater than just the length of the typical lead section. Extensions of various lengths are available and are supplied with couplings and hardware for attachment to the lead or other extensions allowing the ECP helical piers assembly to reach the desired depth.

Helical plates may also be installed on the extensions where the length of the lead is not sufficient to allow for the proper interval between plates. The number of the plates per Helical Torque Anchor™ is limited only by the capacity of the shaft to transmit the torque required to advance the Helical screw anchor into the soil.

ECP Helical piers may terminate with a pier cap that will be embedded into a concrete foundation. In other applications such as tieback anchors, a transition is made from the anchor shaft to a continuously threaded rod. Various beams, wall plates, etc. can be attached to the threaded bar for wall support, and to restore or to simply stabilize walls or other structure from overturning forces. In foundation restoration repair and stabilization applications, foundation brackets are available that attach between the Helical Anchor and the foundation beam or footing.

ECP Helical Piers are a top choice for foundation repair contractors and foundation design engineers. For more technical information about the ECP helical pier products, go to the ECP Engineering section.



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