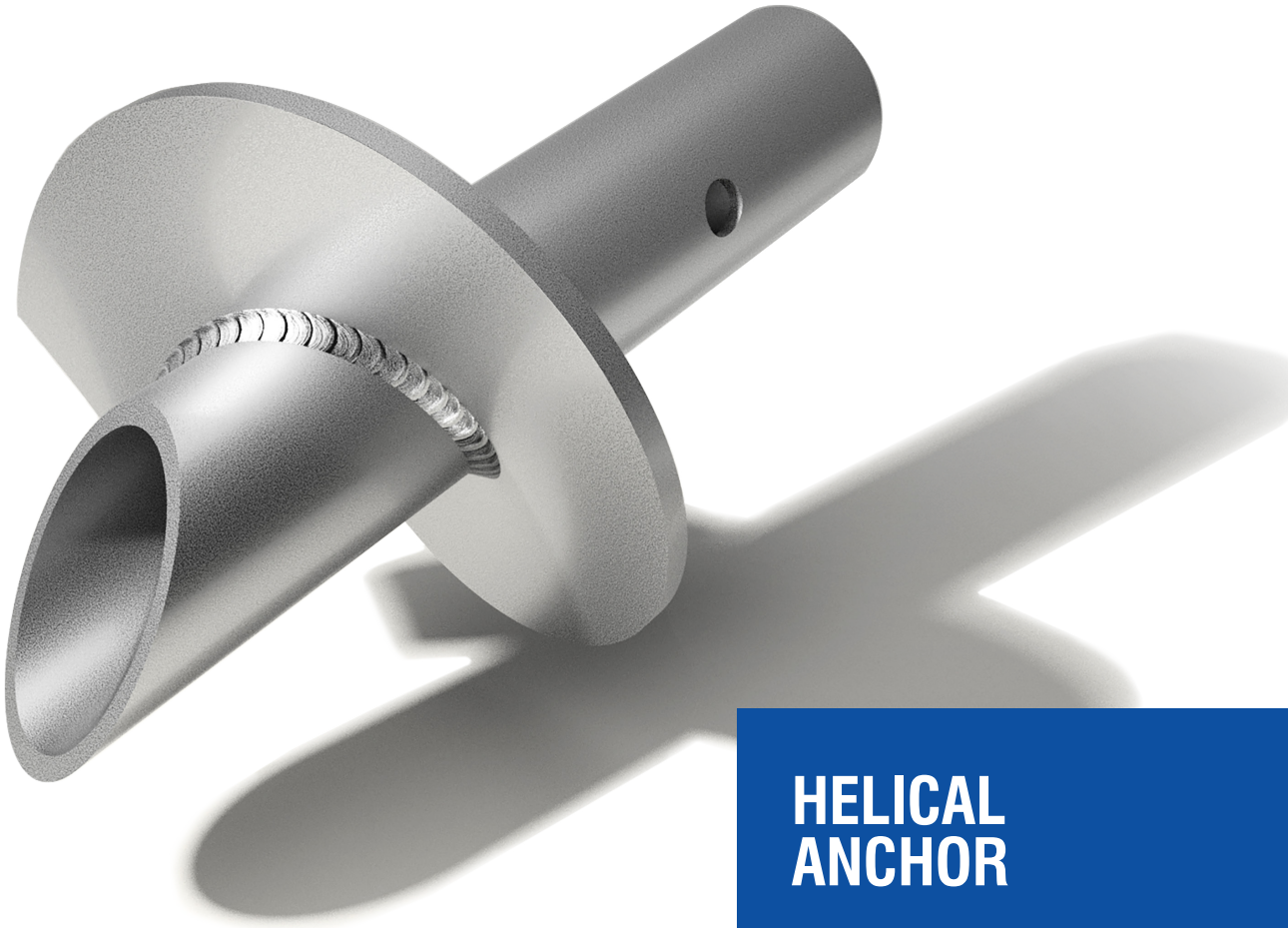
APA SOLAR RACKING

APALTERNATIVES.COM

WHERE INNOVATION MEETS AUTOMATION



HELICAL ANCHOR

Our **Helical Earth Anchors** are an excellent method of securing your next project. APA helicals utilize a circular tube which is a very efficient utilization of steel for maximum strength per pound. With the proper equipment, you can install much faster than many other methods. Helix inserts come in several different sizes, to accommodate whatever needs your project has. Increased helix sizes enable greater strength, and higher resistance to pullout due to environmental factors. When you purchase a turnkey package, there is no need to worry, as our team of engineers will test your potential site location and determine the optimal helix configuration to save you money, while keeping your investment safe.

EASY TO INSTALL

Can be installed with a skid steer and chuck attachment, a single point, or with our fully automated, dual anchor driver. We are able to drastically reduce project installation times with our specialized equipment, driving two helical anchors (front & rear) in the ground simultaneously, every 45 seconds. The GPS system allows for precision placement and accurate driving depth, taking project quality to the next level.

ADAPTABLE TO SOIL CONDITIONS

The perfect solution for temperamental soil conditions that most customers run into. Our proprietary shallow helical anchors allow us to be extremely versatile/flexible in "less than ideal" soil conditions and provide a stable foundation at a cost effective price. We customize the size and embedment depth per site, based on the performance of onsite anchor testing (load bearing and pullout tests).

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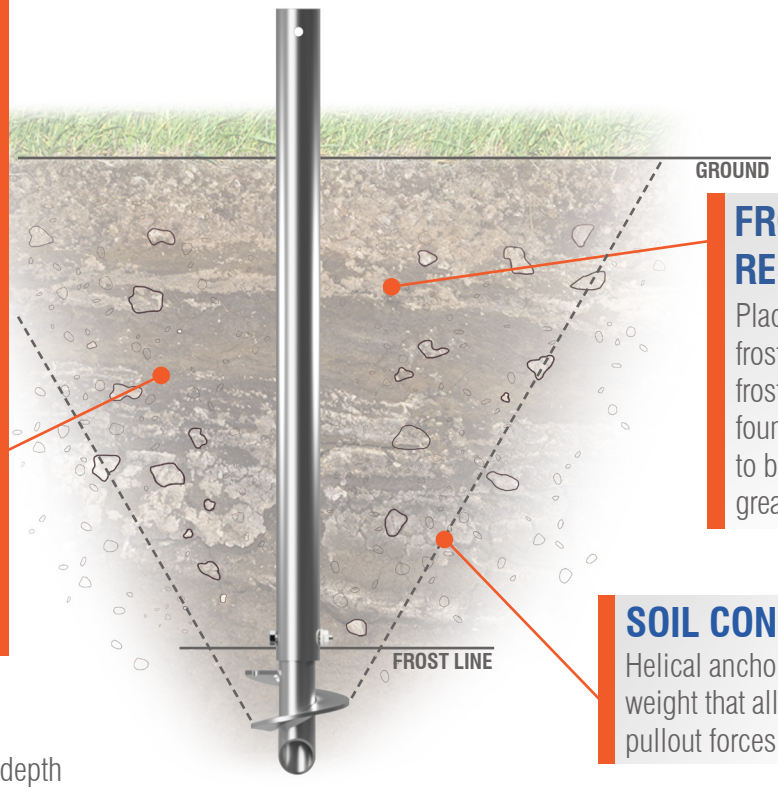
WHAT MAKES THE HELICAL ANCHOR SYSTEM SO VERSATILE?

SOFT SOILS
The helix creates a cone effect allowing it to resist high pullout loads

SHALLOW BEDROCK
Helicals can be installed as shallow as 28 inches, hovering above bedrock

HIGH WATER TABLES
Installation is typically unaffected by groundwater due to shallow embedment depths and helical design

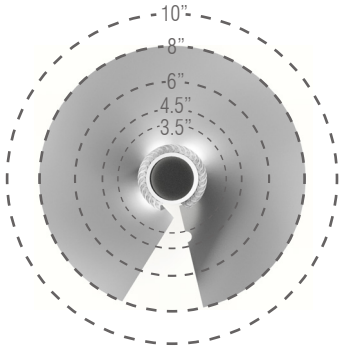
SANDY SOILS
Sand is a granular material with a very low friction value, which is why driven piles do not perform well. When a helix is pulled on the small grains interlock creating maximum holding power



FROST HEAVE RESISTANCE
Placing the helix below the frost line easily overcomes frost jacking forces. The foundation tube allows frost to break free from the post greatly reducing heave force

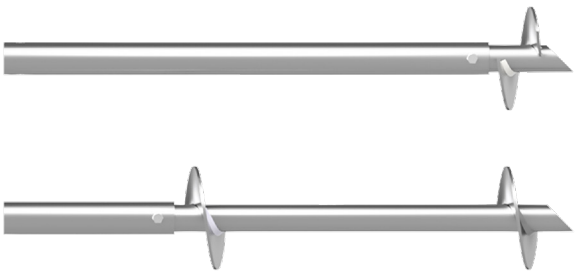
SOIL CONE WEIGHT
Helical anchors create a cone of weight that allows them to resist large pullout forces at shallow depths

RANGE OF HELIX DIAMETERS
Varying diameter helixes and embedment depth allows for install into a wide range of soils



BIGGER IS NOT ALWAYS BETTER
A large helix may seem like the most obvious choice. However, it is more likely to hit obstructions. A helix, well matched to the site, will provide the balance of drivability and handling to meet the site criteria

QUICK CHANGE HELIX DESIGN
Bolt-in design allows different size helix inserts to be changed quickly reducing lead time on projects



DOUBLE & SINGLE HELIX
A single helix is typical for most sites. The bolt-in design allows for a double helix to be used to match site criteria

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