

WIND TURBINES

EXCLUSIVE ANCHORING SOLUTIONS

GOLIATH **TECH**

SCREW PILE SYSTEM



HELICAL PILE SUPPORT SYSTEM FOR WIND TURBINES



ISO 9001:2015 CERTIFIED | ISO 14001:2015 ENVIRONMENTAL CERTIFIED | ICC-ES ESR-3726
AWS D1.1 / CWB CERTIFIED | CCMC CERTIFIED #13675-R | ACQ & CA COMPLIANT

A SMART ALTERNATIVE TO ALL-CONCRETE WINDMILL SUPPORT SYSTEMS

Given the ever-increasing demand for wind power as a source of renewable energy, GoliathTech has ingeniously adapted its helical piles for use in anchoring wind turbines. Stability and durability are essential, and GoliathTech's helical piles are an anchoring solution designed to stabilize and support the windmill in any soil and under the most extreme weather conditions.

Helical piles are a better and easier solution than traditional all-concrete support systems. In the past, mounting block were made of concrete, requiring extensive dry time, excavation and cost. GoliathTech's solution involves rotary installation of typically 30 to 50 helical piles deep into stable soil to act as anchors, followed by pouring of the windmill's concrete base.



HELICAL PILES ENCASED IN CONCRETE SUPPORT

SOLID ANCHORING PREVENTS MOVEMENT

Our screw piles designed specifically to support wind turbines are installed 30 to 100 feet deep to reach stable soil, solidly supporting them and preventing lateral movement and uplift even as they are buffeted by the most intense wind speeds.

The piles feature tube diameters of 6 5/8" to 12 3/4", for optimal compression and tension performance. GoliathTech's precise engineering and installation method ensures that over time the windmill remains stable.

SUPERIOR TO ALL-CONCRETE SOLUTIONS INSTALLATION IN 1-2 WEEKS

- | | |
|---|---|
| ✓ ECONOMICAL | ✓ FULLY ENGINEERED TO RESIST MOVEMENT & UPLIFT |
| ✓ ECOLOGICAL (USES 1/3 AMOUNT OF CONCRETE) | ✓ NO WEATHER DELAYS |
| ✓ FASTER (ALL-CONCRETE TAKES 3-4 MONTHS) | ✓ NO SOIL DISPLACEMENT OR REMOVAL |

QUALITY ENGINEERING

- 1 UPPER 4 FEET OF PILE ENCASED INSIDE CONCRETE BASE**
- 2 FUSED TUBE SECTIONS PREVENT UPLIFT AND LATERAL MOVEMENT**
- 3 REINFORCED JOINTS AND CONNECTIONS SECURED WITH SUPERIOR 60 KSI BOLTS**
- 4 60 KSI GALVANIZED STEEL RESISTS CORROSION**
- 5 3 TO 5 HELICES, EACH MEASURING 19" TO 35" DIAMETER**

STABILITY UNDER ANY CONDITIONS

- Installed to depth of 30 to 100 feet to reach optimal soil
- 3 to 5 helices ensure maximum vertical tension within the soil for stability
- Fully engineered to meet lateral movement and uplift requirements

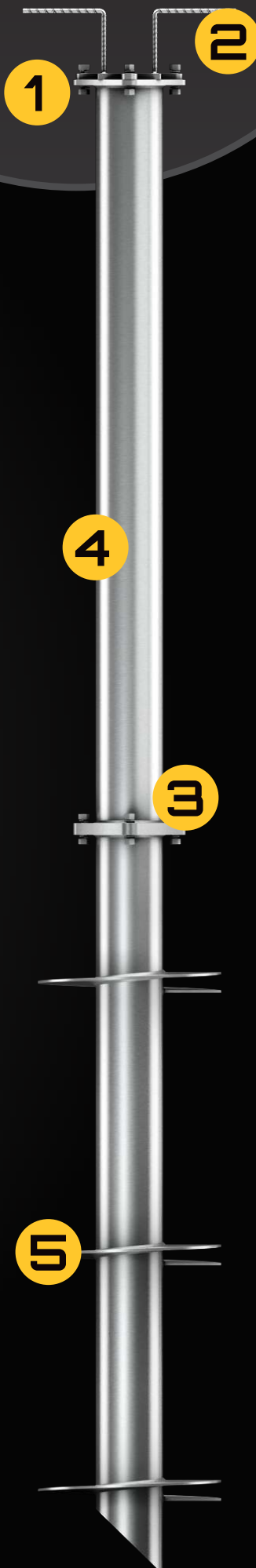
ENVIRONMENTAL RESISTANCE

- Performance in cohesive & cohesionless soil
- Fights frost and thawing soil movements from the inside out
- Designed to withstand extreme wind velocity

QUALITY ENGINEERING

- Complete pile foundation design performed by our engineers
- Engineering software that simulates reaction of wind on the piles base
- Superior load-bearing capacity
- Superior tension capacity calibrated torque-reading equipment ensures precise installation

CONCRETE



WE ARE GOLIATHTECH

THE PILLARS OF YOUR PROJECTS

GOLIATHTECH'S INSTALLATION PROMISE

Our network of certified installers put their vast experience to work to guarantee optimal anchoring of each pile.

Because the quality of an installation is as important as the quality of the piles, all GoliathTech installers have received training at our factory and are certified technicians on the installation of our products.

Installers use mini excavators equipped with our proprietary calibrated torque-reading equipment, which allows them to determine the exact tension and compression values on each site. Their expertise ensures that the screw piles and the supported structure are built to last.

**BACKED BY THE GOLIATHTECH
PROMISE, GUARANTEED!**

QUITE SIMPLY SUPERIOR.

**For more information on our products
or to find a certified GoliathTech
installer, please contact us:**

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