

SCREW PILING

Ideal for almost any application, screw (helical) piles can be quickly installed with little impact on immediate surroundings. Upgrades to live facilities can be made safely and in a timely manner. As with driven piles, screw piles can be cut, capped, and used without delay, and without a nearby source of concrete. If the time comes, helical piles can be easily removed for re-use or recycling, assisting customers with addressing environmental concerns, and drastically reducing remediation costs.



With the experience of over 500,000 screw piles manufactured - our industry leading helical pile is complimented with one of the largest, and most diverse fleet of installation equipment in North America - with electronic torque monitoring. All engineering, manufacturing, and installation of this product is completed in house.

Contact Roterra Piling today for all of your foundation needs. Our experts can help you with pile feasability, design, budgets, execution plans, load testing, pile analysis, fabrication, and installation. Roterra's team are dedicated to assisting you in a timely manner.





SCREW PILE

- Economical alternative compared to traditional deep foundation techniques
- Quickest method of piling installation when properly designed and installed
- → Load can be applied immediately after installation
- → Minimal environmental impact
- → Minimal noise and vibration
- → Removable and reusable
- Versatile foundation system: pile groupings and/or battered install offers limitless possibilities
- ➔ Year round installation
- ightarrow Soil strength feedback and confirmation during installation
- ➔ No drill spoils and no requirement for concrete
- → Extensions can be applied to increase length and capacity

DISADVANTAGES

- Difficult penetrating very hard bearing layers
- Installation through strata that may damage helixes can cause issues (i.e. rocky soil layers)
- ➔ Lowest pile capacity for single piles of major piling types
- Manufacturing lead time is required for projects

APPLICATIONS

Recent innovation of large hydraulic drive heads over the past 20 years have slowly allowed helical screw piles consideration as a viable deep foundation solution. Screw piles are installed by pinning the top of the pile to a hydraulically powered drive head and rotating the pile into the ground until the helical plate(s) are installed to a desired depth and a satisfactory installation torque is achieved. Screw piles are the quickest pile to install and were initially embraced by Oil and Gas owners due to their speed and cost in remote locations. The engineering and fabrication behind the product has advanced its applications to commercial, institutional and industrial applications.



DRIVEN - SCREW - BORED - CFA PILING

PIPE SHAFT

roterra.ca info@roterra.ca