

Helical Screw Pile

Helical screw piles are steel screw-in piling systems used for deep foundations. They are installed by rotating them into the ground and offer a versatile foundation solution for various soil conditions.



ADDITIONAL IMAGES



Product Overview

Helical Screw Pile Foundation System

Helical screw piles are a versatile, modern deep foundation and ground anchoring solution designed for various soil conditions. These systems consist of a central steel shaft with welded helical bearing plates, allowing for rapid installation by rotating them into the ground using hydraulic rotary drive heads. Suitable for both residential and commercial projects, they offer significant advantages over traditional concrete foundations, including minimal soil disturbance, high load-bearing capacity, and reusability.

Technical Specifications

Available Drill Pipe Types

- Single-wall hollow drill pipe
- Double-wall drill pipe

Installation Features

Hydraulic rotary drive, Excavator compatible, Skid steer compatible, Rapid installation, Minimal soil disturbance

Double-Wall Advantage

The double-wall design allows for air input during the drilling process, effectively reducing slewing resistance.

Application & Usage

Installation Methodology

For single-wall pipes, drilling is performed to a predetermined depth. Concrete is then continuously poured simultaneously as the drill is raised, followed by the insertion of a steel cage. The system is designed to be rotated into the ground like a screw, ensuring precise placement and structural integrity.

Common Applications

Residential Buildings • Commercial Buildings • Infrastructure Projects • Temporary Structures • Deep Foundations