

## Screw Pile foundations for house extension in Kent

### Helical Screw Piles: the ideal foundation solution for this house extension in Bromley, Kent

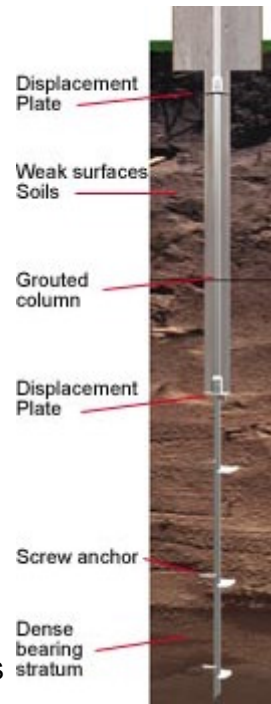
Ground Sun are certified installers of the Chance Helical Pulldown Micropile Screw Pile®. The screw pile is a giant metal screw that is installed using hydraulic machinery. The Helical Pulldown Micropile® is a system for constructing a grout column around the shaft of a standard Helical Pier foundation system pile. The screw pile guarantees that your building/structure is anchored on a solid base.



A handheld hydraulic drive drill rig was used to drill the screw into the ground. Extensions are bolted onto the shaft and the helical piles are pulled downwards. Torque is applied until the necessary load capacity has been achieved. A flowable grout fills the void, surrounding and encapsulating the shaft. The helical pile shaft is then cut off and screw pile plate is attached ready for steel ring beams to be installed.

The screw pile method of construction offers the following advantages:

- Faster construction
- No excavation spoils to remove
- Can be installed in any weather
- Permits building on weak soil sites
- No heavy equipment required
- Installs in limited access situations
- May be installed close to underground services/trees
- Can be used to underpin foundations
- High capacity applications



Ground Sun recommended screw pile foundations as a quick and efficient solution for this house extension which had limited site access. Screw piles require no heavy equipment on site and no need for expensive removal of excavation spoils. Also with many trees surrounding the site, there was no interference with tree roots.

