

**AB CHANCE Helical Pulldown Micro-pile® is a high capacity screw piling system which has the advantage of using lightweight machinery with no resulting spoils to be removed, offering safe, quick and clean construction.**

### Applications:

- new build houses
- restricted access sites
- house extensions
- temporary works
- underpinning subsidence
- bridges, rail, civil construction
- Good for difficult ground conditions eg high water table or made ground

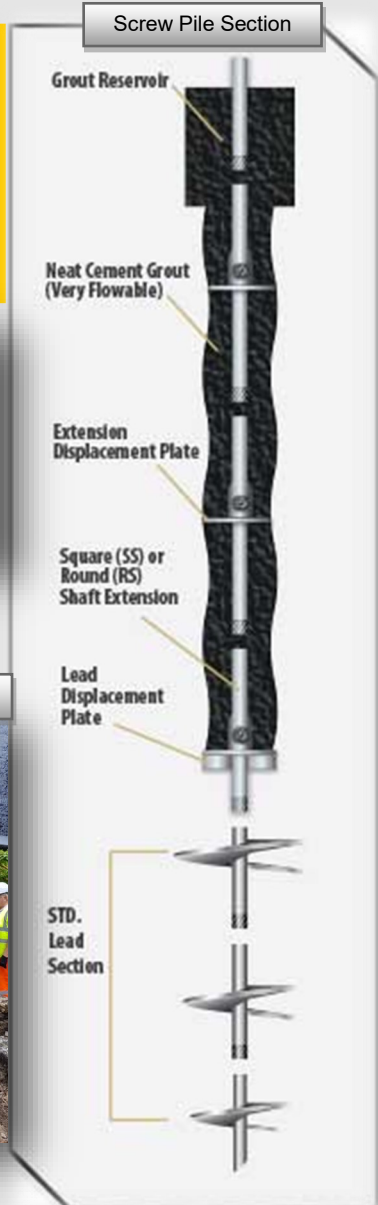
Handheld installation



### Advantages:

- No spoil removal
- No vibration or noise
- No piling mat
- Tree root friendly
- Great for restricted access sites: if you can walk there we can pile there
- Faster construction
- Can be installed in any weather
- Solid steel, up to twice as strong as standard screw piles as it is a friction pile as well as end bearing

Machine installation



## Installation:

- A handheld or machine mounted hydraulic drive head is used to install the AB Chance solid steel lead section into the ground, normally 2m long with 3 helices 200mm, 300mm and 350mm diameter
- A reaming plate is installed to the top of the lead section and an extension shaft is attached and the helical screw pile is rotated clockwise, the pile pulls itself downwards
- A flowable grout fills the void around the extensions
- Torque is measured and applied until the necessary load capacity has been achieved using torque correlation method
- The helical screw pile shaft is then terminated and a new construction bracket is attached ready for ring beams or slab to be installed.



Pile foundations for new build



Underpinning brackets



Underpinning a building