



MINI AUGER-BORED CAST IN-SITU PILES

Mini bored cast in-situ augered piles are particularly quick and cost effective in most ground conditions but are particularly effective in cohesive soils.

BASIC TECHNIQUE

Where unstable strata is encountered the sectional auger string is rotated into the ground in conjunction with segmental screw threaded temporary casings to progress the bore.

Once the design depth is reached the auger string is withdrawn and the bore is concreted or grouted prior to the removal of the temporary casing. A single bar or reinforcement cage is inserted on completion of piling.

This technique is employed regularly in cohesive soils and is particularly cost –effective and efficient when open boring is possible.

STRENGTHS

- ✓ Small lightweight equipment
- ✓ Low noise and vibration
- ✓ Suitable for tension loads
- ✓ Minimal site preparation
- ✓ Suitable for forming piled retaining walls
- ✓ Limited headroom, restricted access capability



AUGERED MINI PILING



MINI PILING WITHIN BASEMENT



RESTRICTED SPACE CAPABILITY WITH SAFETY CAGE IN PLACE

PROTECTING THE ENVIRONMENT

When working inside buildings the fumes from usual diesel-engined rigs can cause a problem. In these situations we can use an electric-powered mini piling rig, which produces no fumes.

AUGERING – CLOSE TO STRUCTURES

Augered mini piles can be installed with little or no vibration and so piles can be placed as close as 1m from an adjacent building or structure. Where piles are required close to underground tunnels or services, permanent sleeves can be used to prevent load transfer from the piles to the tunnel walls.

RESTRICTED ACCESS CAPABILITY

Our small and lightweight mini piling rigs can gain access through openings as narrow as 0.75m, including doorways and corridors. This allows us to work in small and awkward spaces inside buildings.



AUGER TOOL

TECHNICAL CAPABILITIES – MINI AUGER-BORED CAST IN-SITU PILES

Specification	From	To
Practical Depth	N/A	35m
Diameters	150mm	600mm
Typical Load Capacity	N/A	1500kN
Rig Height	2.2m	8.0m
Rig Length	1.8m	5.4m
Rig Width	0.75m	2.4m
Typical Rig Weight	2,000kg	15,000kg
Operating Distance from face of Wall to Centre of Pile (including safety cage)	1,000mm	N/A

CONTACT US

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