



Piled Foundations & Underpinning

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Sectional Flight Auger (SFA) bored piling

SFA bored piles, are a replacement pile type. They are suitable for restricted access & headroom sites, where noise & vibration is sensitive. Noise & vibration levels are low.

Klemm 702 mini bored piling rig



Working height – approx. 3.5m

Width – 1.5m

Length – 3.75m

Weight – approx. 4.0t

Plus separate power pack

Klemm 709 midi bored piling rig



Working height – approx. 10m

Rig Width – 2.4m

Rig Length – 5.5m

Rig Weight – 15t

DESCRIPTION

SFA piles are formed by using segmental piling augers added in sections, until the required depth is reached. As the auger sections are removed, site batched grout or concrete is injected to form the pile. Pile reinforcement is then placed into the fluid grout / concrete for final completion.

The pile length is usually determined by “static” pile design methods, which take into account the soil strength data provided in the site specific investigation report. Pile diameters of up to 450mm can generally be installed.

Noise levels are low, as is typical with a bored piling system.

Vibration levels for this bored piling system are low, & generally in the region of up to 5mm/sec peak particle velocity (PPV).

This piling system is suitable for installation, closer to existing services and buildings than other piling systems.