MP
MILLER PILING

How CFA Piling Works

A CFA pile, is formed by drilling into the ground with a hollow stemmed continuous flight auger to the required depth. No casing is required. A fluid concrete mix is then pumped down the stem of the auger. While the concrete is pumped, the auger is slowly withdrawn, conveying the soil upward along the flights. A shaft of fluid concrete is formed to ground level. Reinforcement can be installed.

Recent innovations in addition to stringent quality control allows reinforcing cages to be placed up to the full length of a pile when required. A typical reinforcing cage will be upto 8m in length. Where tension loads are present it is typical to see a single full length bar placed at the centre of each pile.

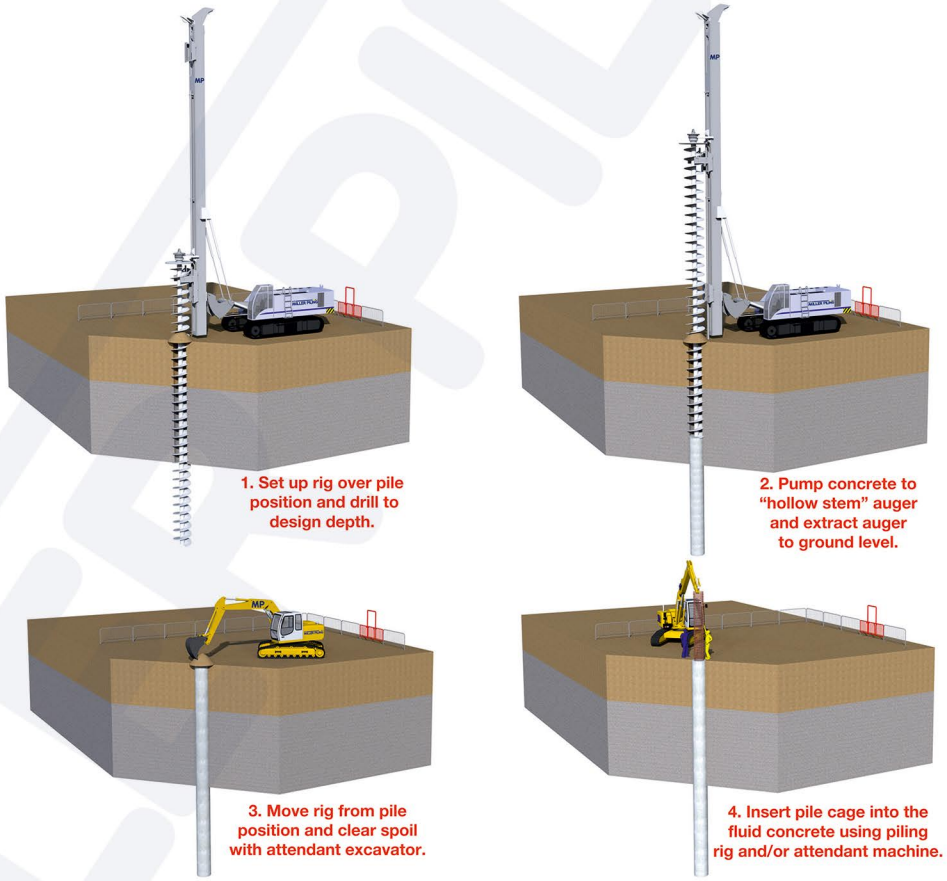
CFA piles cause minimal disturbance, and are often used for noise and environmentally sensitive sites.

BEST PRACTICE GUIDELINES
CFA PILING

Training Required:	All personnel trained to CSCS/CPCS level. Site Specific Induction.

Equipment Required:	CFA Rig
	Agitator
	Concrete Pump
	Safety Barriers
	PPE as per Method Statement
	Safety Signage
	Attendant Plant

Hazard	Controls
Spoil falling from Auger	Maintain exclusion zone
	Effective mechanical auger cleaner
	Protection of areas outside side
Hearing damage	Hearing protection to be worn
Work at height; Risk of falling	Use a MEWP
	Don't climb on plant
Cement burns and dermatitis	Wear eye protection
	Wear gloves
	Wash splashes off
Manual handling	Use mechanical assistance
	Avoid muscular strain
Hydrocarbon pollution	Fuel and oil containers capped and kept on bunds
	Prompt mopping and bagging of spillages
	Use drip trays/plant nappies
Rig instability	Working platform certificate in place
	Ramps to 1 in 10 or shallower
	Piling platform maintained
Reversing ready-mixed trucks	Banksman to be in attendance
Trips and slips	Keep piling platform in good condition
	Use of step to climb and dismount rig
	Keep working area around pump clean
Concrete hose bursts	Do not track or drive over hoses
	Use slings to transport, do not move with excavator bucket
	Agree and identify crossing points



1. Set up rig over pile position and drill to design depth.

2. Pump concrete to "hollow stem" auger and extract auger to ground level.

3. Move rig from pile position and clear spoil with attendant excavator.

4. Insert pile cage into the fluid concrete using piling rig and/or attendant machine.

PLAN SAFE
MP WORK SAFE

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