

Business Profile

Round Piling, CFA Piling & Shoring Foundation
WorkContracting Company

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📍 Dubai, UAE

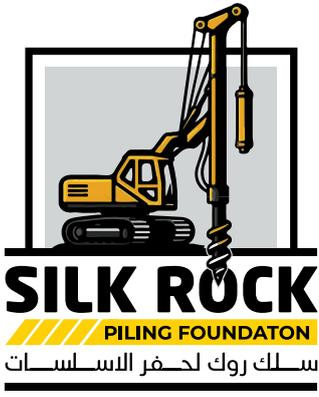


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ABOUT US

Silk Rock Piling Foundation Co. L.L.C. was established to deliver high quality engineering and contracting services in the field of geotechnical engineering. Since its inception, the company has grown steadily to become one of the UAE's leading and most reliable contractors in building construction, piling, and various underground works.

Starting as a conventional contractor, Silk Rock Piling Foundation has successfully diversified into specialized geotechnical services including round piling, shoring piling, CFA piling, and more. With its head office based in Dubai, UAE, the company is well-positioned to serve clients across the region.

Silk Rock Piling Foundation is led by a team of qualified professionals—experienced team leaders, skilled design engineers, quantity surveyors, project managers, foremen, and equipment operators—who bring deep expertise and dedication to every project.

We take pride in the quality, value, and reliability of our services. Our commitment to exceeding client expectations has resulted in strong repeat business and a growing number of referrals. Khaleej Piling is also proud to be among the few geotechnical contractors in the region to operate profitably and sustainably.



COMPANY MISSION & VISION



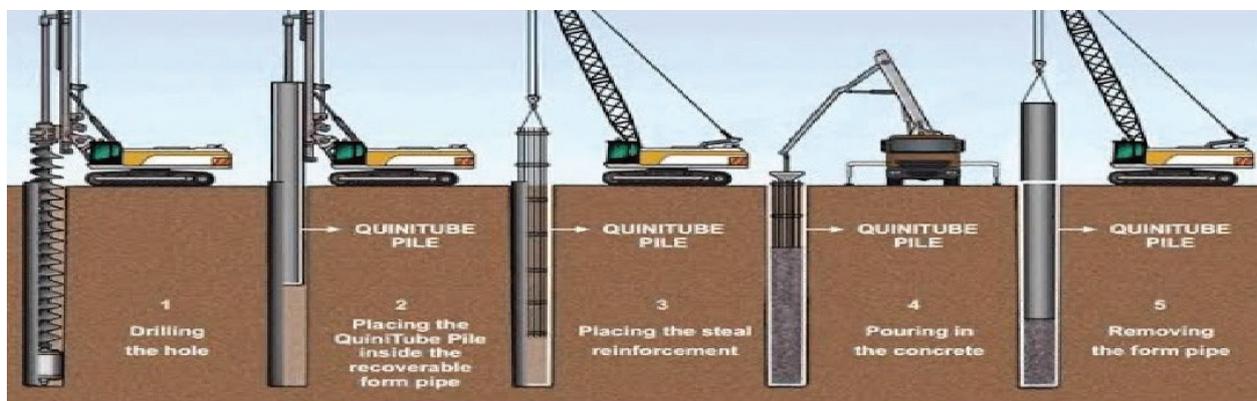
- Deliver timely and cost-effective services that meet or exceed client and consultant expectations.
- Maintain zero tolerance for health, safety, and environmental violations in all operations.
- Employ the latest technologies in piling and foundation engineering to reduce project timelines and enhance quality.
- Foster continuous improvement and innovation in ground engineering techniques.
- Minimize environmental impact and ensure the safety of existing surrounding structures.
- Build long-term relationships by delivering value-driven results and encouraging repeat business for sustainable growth.



To deliver simple, safe, and innovative foundation solutions for complex ground engineering challenges, while minimizing environmental impact and ensuring the protection of surrounding structures. We strive to be recognized as a reliable and forward-thinking leader in geotechnical engineering through continuous improvement and customer satisfaction.

METHOD STATEMENT

1 The Rotary Bored Piling Process: Step-by-Step Guide



Site Assessment:

Our team conducts an initial assessment to evaluate the soil conditions, load requirements, and any site-specific challenges. This thorough assessment ensures that we design a tailored solution optimized for the project's unique needs.

Drilling the Borehole:

A powerful auger is used to drill a borehole to the required depth. The auger is attached to a telescopic bar, allowing it to penetrate deeply into the ground while extracting soil to create a clear, stable shaft.

Reinforcement Installation:

Once the desired depth is reached, a steel reinforcement cage is lowered into the borehole, providing additional strength to the foundation.

Concrete Pouring:

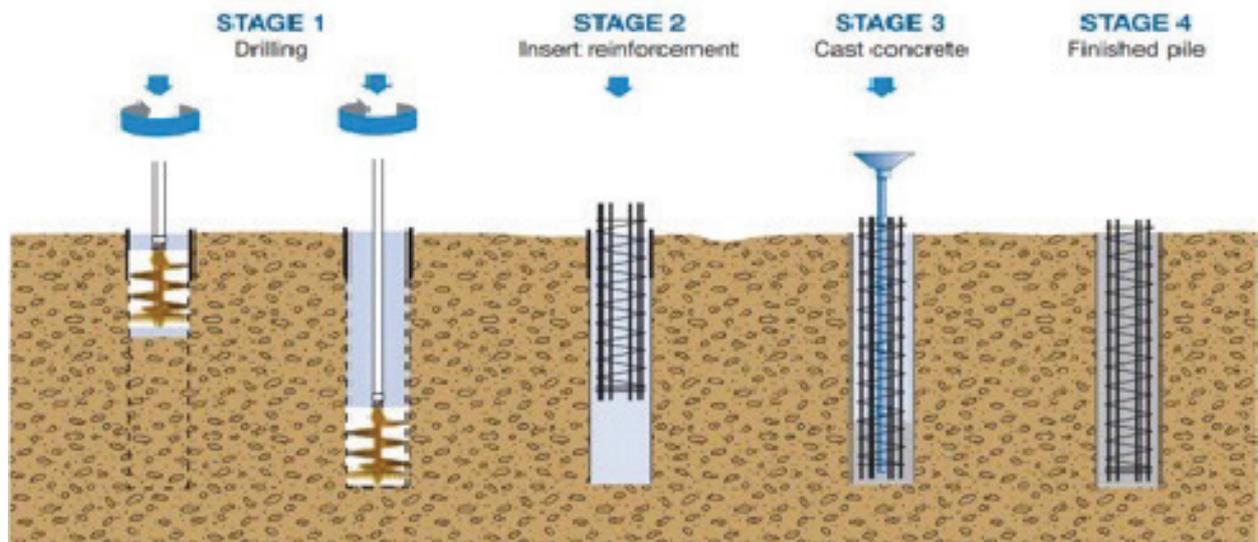
High-strength concrete is then poured into the borehole to form a solid pile. This process creates a durable foundation capable of supporting heavy loads for years to come.

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High-strength concrete is then poured into the borehole to form a solid pile. This process creates a durable foundation capable of supporting heavy loads for years to come.

Temporary Casing:

In cases of loose or waterlogged soil, a temporary casing is used to prevent soil collapse during drilling. The casing is removed once the concrete is poured, ensuring structural integrity in difficult ground conditions.



At each stage, our team adheres to strict quality standards, using the latest equipment to ensure precise and consistent results. Whether dealing with clay, chalk, or rocky terrains, Rotary Bored Piling provides a reliable solution adaptable to the most demanding soil conditions.

Where Can Rotary Bored Piling Be Used?

Rotary Bored Piling is a versatile foundation solution suitable for a wide range of construction applications. Its adaptability to different soil types and capacity to reach significant depths make it ideal for numerous complex projects. Here are some of the most common uses for Rotary Bored Piling:

Bridge Foundations: Providing stable support for bridges of all sizes, ensuring durability over time.

Retaining Walls: Essential for supporting deep excavations in construction sites, helping to retain surrounding soil and prevent collapses.

Basement Construction: Ideal for deep basement structures, particularly in urban environments where space is limited.

Tunnel Infrastructure: Supporting tunnel construction by creating a stable foundation in varying ground conditions.

Road and Rail Projects: Offering solid foundations for infrastructure projects, adaptable to different soil types encountered along the route.

Industrial Projects: Providing robust foundations for large industrial buildings requiring high load-bearing capacities.

Advantages of Rotary Bored Piling

Rotary Bored Piling offers multiple advantages, making it one of the most dependable and flexible foundation solutions available:

High Load Capacity: The method is suitable for projects requiring strong support, such as bridges, high-rise buildings, and industrial structures.

Adaptability to Various Soil Types: Rotary Bored Piling can be used in clay, chalk, gravel, and even rocky terrains, allowing for versatility across different projects.

Minimal Vibration and Noise: This technique causes minimal disruption to surrounding areas, ideal for urban settings with strict noise regulations.

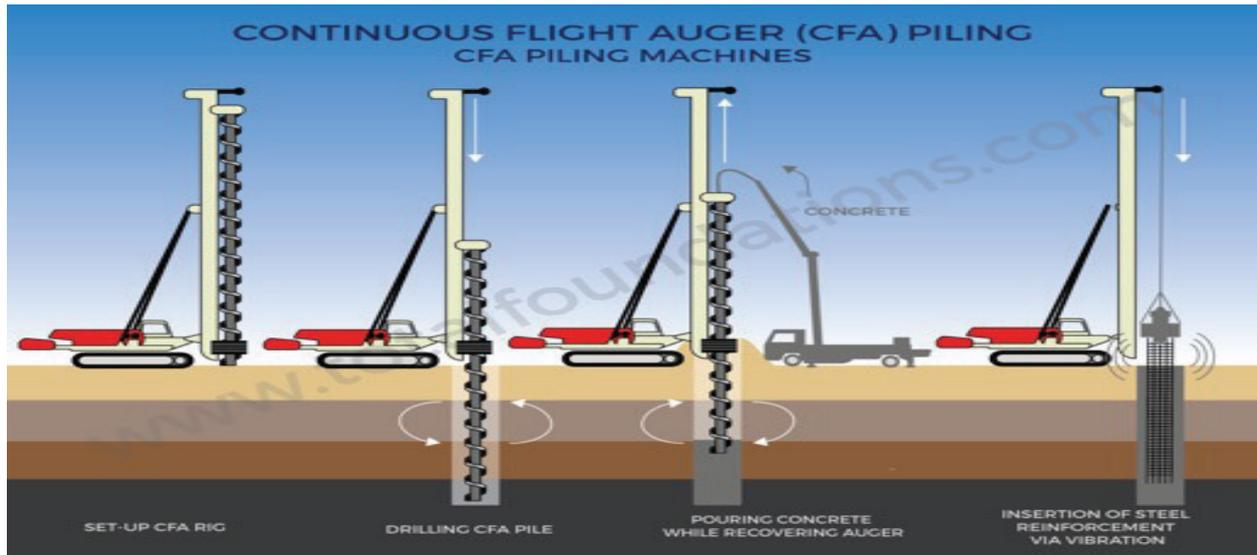
Larger Diameters and Greater Depths: Allows for larger diameter piles, essential for projects with significant load-bearing requirements.

Precision Placement: Rotary Bored Piling ensures precise positioning, ideal for projects with strict engineering demands.



2 The CFA Piling Process: Step-by-Step Guide

At Silk Rock Piling Foundation, we follow a meticulous process to ensure each CFA pile meets stringent standards for quality and durability. Here's a detailed look at how our CFA piling services are carried out:



Initial Assessment:

Our team conducts a comprehensive assessment of the project site to determine soil conditions and identify any potential challenges. We evaluate factors like soil type, load requirements, and accessibility to design a custom piling solution tailored to your project's needs.

Drilling:

Using a high-capacity auger, our team drills down into the ground in a single continuous motion. The auger creates a stable shaft without disturbing the surrounding soil, minimizing the risk of ground collapse or displacement.

Concrete Injection:

As the auger is gradually withdrawn, high-strength concrete is pumped into the shaft through the hollow center, filling the void and creating a stable pile. This in-situ concrete pile provides a durable foundation capable of supporting heavy loads.

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Final Inspection:

Each pile is rigorously inspected to ensure it meets our high standards for stability and strength. Our team monitors every aspect of the process to ensure consistency and reliability, guaranteeing that your foundation is built to last.



Through each step of this process, we prioritize safety, precision, and efficiency. Our team is equipped with state-of-the-art equipment, and our technicians are trained in the latest CFA piling techniques, allowing us to complete projects on time and within budget.

Why CFA Piling Is the Preferred Choice ?

CFA piling has become the go-to foundation solution for construction projects throughout London, thanks to its adaptability, speed, and cost-effectiveness. This method is especially beneficial in urban environments where space is limited, noise restrictions are enforced, and soil conditions are often unpredictable. Here are some of the key advantages of CFA piling:

Swift Installation: Each pile can be installed within minutes, allowing for rapid progress on construction sites. The efficiency of CFA piling helps keep projects on schedule and minimizes downtime, making it an ideal choice for time-sensitive developments.

Cost-Effective: By eliminating the need for extensive soil excavation, CFA piling reduces both labor and material costs. This economic advantage makes it suitable for projects of varying sizes and budgets.

Low Noise and Vibration: The CFA method generates minimal noise and vibration, making it ideal for densely populated areas where construction disruptions must be minimized. This quality is especially important for projects near schools, hospitals, and residential neighborhoods.

Adaptability to Soil Types: London is known for its diverse soil conditions, from clay to gravel and sand. CFA piling is adaptable to a range of soil types, ensuring that each pile is securely embedded and capable of supporting the intended load.

Environmental Benefits: CFA piling is considered a more environmentally friendly option, as it reduces the need for soil transport and minimizes waste. This aligns with modern sustainability goals and is particularly valuable in urban construction.

Comprehensive CFA Piling Services by Silk Rock Piling Foundation

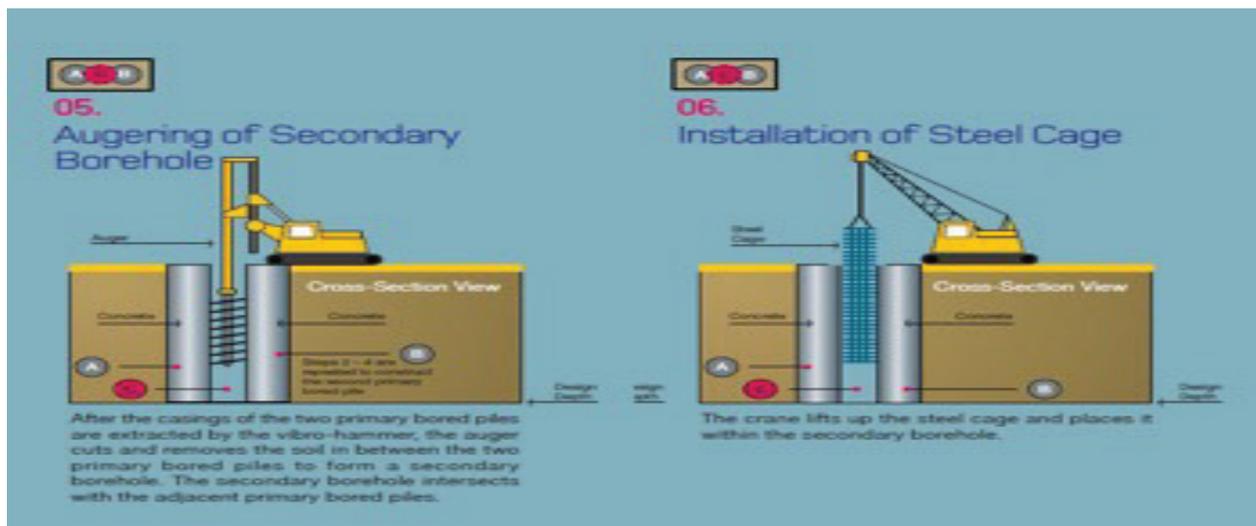
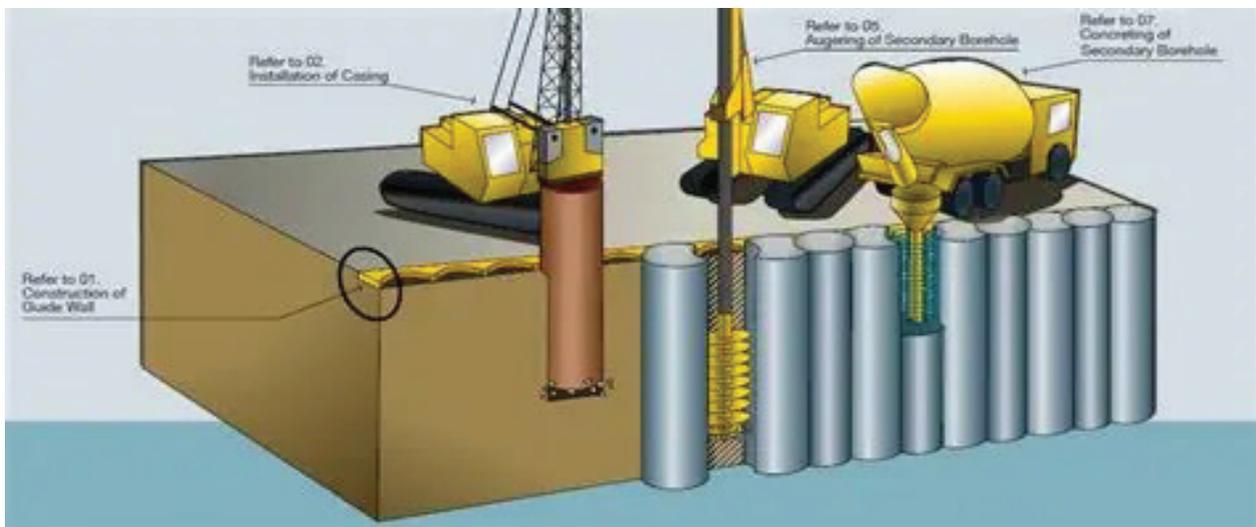
Our commitment to excellence sets us apart as a top choice for CFA piling contractors. We work closely with our clients to provide customized foundation solutions that meet the unique demands of their projects. Our services cover every aspect of the CFA piling process, from initial site assessment to project completion, ensuring transparency and reliability at each stage.

With a proven track record and extensive experience, we have completed CFA piling projects for a variety of buildings, including commercial skyscrapers, residential complexes, industrial facilities, and mixed-use developments. Our team is equipped with the latest piling rigs, capable of handling piles of various diameters and depths to suit a range of load requirements. Every project is approached with a commitment to quality and safety, ensuring that your foundation is both strong and durable.



2 Secant Pile Shoring

With secant pile shoring, you can intersect two walls together so that they interlock to create a continuous wall. One of these is called the primary wall and the other is called the secondary wall. The primary wall is the sturdier one but both are integral to the overall structure. Secant pile shoring is useful when open excavation is too difficult due to tight space or obstructing nearby structures. Secant pile shoring has to be carefully applied specifically because it's often used so close to other standing structures.



Tangent, or Contiguous Pile Shoring

This visibly simple shoring method consists of strong, sturdily placed piles plowed into the ground and tightly spaced next to each other in a line (tangent) to each other. The cylindrical piles can't however be packed together in a waterproof way and for this reason, tangent pile shoring is the exact opposite of sheet pile shoring in that it shouldn't be used where there is a high-water table, lots of nearby water bodies or a risk of major water seepage. It is however useful for retaining excavations against lots of dry granular material or fairly dry clay soils.

Trench Boxes

First of all, it's worth noting that trench boxes aren't a deep excavation shoring technology. For major soil retention, they shouldn't be used by themselves because their main purpose is rapidly installable trench shoring for worker protection in limited-depth trenches and excavations.

Therefore, trench box shoring does work extremely well for keeping soil and rock falls from pouring into trenches and holes where people are working. What's more, the trench boxes themselves come in different sizes, can be rapidly lifted into place and can even have their width adjusted as needed for different trench widths. They're an excellent rapid option for excavation security during pipe laying, underground cable work or other shallow excavation projects.

MACHINERIES

SI No	Equipment Name	Model No.	Qty	Unit
1	Sanward Pilling Rig	SD-325 2	2	NOS
2	Sany Pilling Rig	SR-365 3	2	NOS
3	Crawler Crane	SANY-60T	2	NOS
4	Excavator	SANY-220	2	NOS

TOOLS & TACKLES

SI No	Equipment Name	Model No.	Qty	Unit
1	Soil Auger	750mm, 800mm, 1m, 1.2m, 1.5m, 2m	10	NOS
2	Rock Auger	750mm, 800mm, 900mm, 1m, 1.2m, 1.5m, 2m	13	NOS
3	Soil Bucket	750mm, 800mm, 900mm, 1m, 1.2m, 1.5m, 2m	15	NOS
4	Rock Bucket	750mm, 800mm, 900mm, 1m, 1.2m, 1.5m, 2m	18	NOS
5	Cleaning Bucket	750mm, 800mm, 900mm, 1m, 1.2m, 1.5m, 2m	7	NOS
6	Trimi Pipe	8 inch	150	MTR

LIST OF STAFF & MANPOWER			
SI No	Designation	Qty	Unit
1	General Manager	1	No
2	Asistant General Manager	1	No
3	P&M Manager	1	No
4	Operation Manager	1	No
5	Purchase Manager	1	No
6	Marketing Manager	1	No
7	Accountant	2	NOS
8	Project Manager/ Project Incharge	2	NOS
9	Site Engineer	2	NOS
10	Foreman/ Supervisor	4	NOS
11	Store Keeper	3	NOS
12	Mechanic	2	NOS
13	Electrician	2	NOS
14	Rig Operator	5	NOS
15	Crane Opt & Excavetor Opt	4	NOS
16	Steel Fitter	6	NOS
17	Welder	4	NOS
18	Helper	12	NOS
19	Rigger	4	NOS

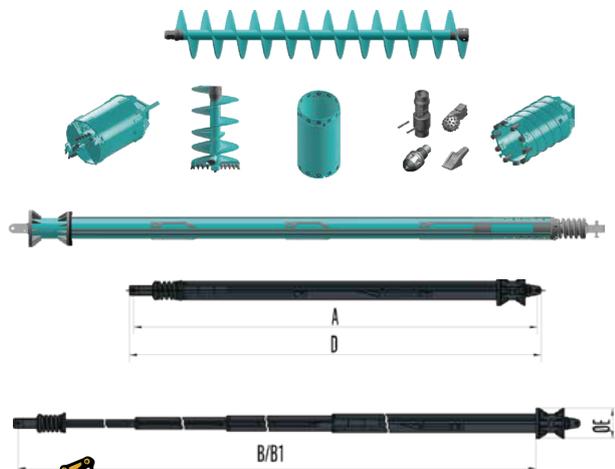
MACHINERIES & TOOLS PHOTOS



- 1 Chassis
- 2 Upper carriage
- 3 Main winch
- 4 Auxiliary winch
- 5 Luffing frame
- 6 Mast
- 7 Mast head
- 8 Kelly bar
- 9 Rotary head

SWDM325

EFFICIENT, POWERFUL AND RELIABLE ENGINE	MULTI-LANGUAGE SUPPORT, VERSATILE FUNCTIONS, MACHINE MONITORING, DIAGNOSTICS
NOISY, QUIET & COMFORTABLE CAB WITH A USER-FRIENDLY CONTROL SYSTEM	FULL-BREW CAMERA, EMERGENCY STOP SWITCH, GUARDRAIL, AND OTHER SAFETY DEVICES
SMART LAYOUT, EASY MAINTENANCE	POWER HEAD: STANDARD WITH HIGH-SPEED SOIL THROWING, ACCUMULATOR IMPACT PROTECTION SEAL, EXTENDING THE LIFE OF THE POWER HEAD MOTOR



Drilling bucket for Normal Soil KB-S



Drilling Bucket for Harder Layers / Rock KBF-K-H



Drilling Auger for Normal Soil SB-2-S



Drilling Auger for Harder Layers / Rock SBF-P2-H

MACHINERIES & TOOLS PHOTOS





Silk Rock Piling Foundation Co. L.L.C

Your Trusted Partner for Reliable Foundations

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