

CHANGSHU YE LU SING FIRM

A large tracked hydraulic piling rig is in the foreground, with a cable-stayed bridge under construction in the background. The rig is grey and green, with a long vertical shaft. The bridge has tall concrete pylons and white cables. The sky is blue with some clouds.

Professional Manufacturer of Hydraulic Piling Rig Spares – Delivering high-quality, durable components engineered for extreme construction environments.

PRODUCT CATALOG 2026 | ENGINEERED FOR
PERFORMANCE

About CHANGSHU YE LU SING FIRM

As a leading professional manufacturer of rotary drilling tools, we operate with a modern production base, first-class processing equipment, and a scientific management system. Our team of design experts, experienced managers, and skilled workers work in tandem to deliver high-quality products and exceptional service to clients across the globe, cementing our position in the foundation construction industry.

We specialize in producing a comprehensive range of drilling tools including **Kelly Bars, Drilling Buckets, Core Barrels, Augers,** and various precision accessories tailored for hydraulic piling rigs, ensuring optimal performance in every application.



Integrity

Conducting all business with unwavering honesty and trustworthiness, building credibility with every interaction.



Dedication

Focusing relentlessly on every detail of production and design to ensure the highest quality standards are always met.



Customer-Centric

Prioritizing client needs above all else, striving to forge long-term, mutually beneficial partnerships worldwide.

Comprehensive Drilling Solutions

We offer a complete range of drilling tools and accessories designed to tackle various formations, from soft soil to hard rock. Our product line is categorized to help you select the most suitable equipment for your project.



A versatile collection of premium drilling tools for diverse geological conditions.

01. Drilling Buckets

Sand Buckets, Cleaning Buckets, Single Bottom Buckets for efficient soil extraction.

02. Core Barrels

Core Barrel with Bullet Teeth and Roller Bits for precise rock coring operations.

03. Augers

Earth, Rock, and Continuous Flight Augers for fast penetration in varied ground.

04. Specialty & Casing

Open-type tools, Belling Buckets, Casings, Shoes, and Drive Adaptors for stability.

05. Support Equipment

Casing Oscillators, Pile Pullers, and Power Packs for seamless operational support.

06. Drilling Teeth & Holders

A full range of bullet teeth, flat teeth, holders, and accessories for extended tool life.

Sand Bucket: Efficient Drilling in Gravel and Cobble Formations



Engineered for high-efficiency drilling in challenging gravel, pebble, and weathered rock formations. Its robust, durable design ensures maximum productivity and longevity in the harshest environments.

01 / KEY FEATURES

Customizable Bottom Mechanism: Semi-automatic or manual systems with built-in ventilation pipes to prevent suction and sticking, ensuring smooth operation.

Optimized Structure
Cast plate with rock bits and arc guide plate tooth arrangement for efficient cutting and wear resistance.

Strategic Tooth Placement
Staggered rock bit arrangement ensures full cross-section coverage, minimizing material carry-over.

02 / APPLICATIONS

Gravel, pebble, highly/medium weathered rock formations. Ideal for complex geological conditions.

03 / FULLY CUSTOMIZABLE

Diameters (950/1050mm+), shell height, wall thickness, inlet type, and Kelly box size tailored to needs.

Sand Bucket Model List

Drilling Diameter (mm)	Shell Height (mm)	Shell Thickness (mm)	Bottom Plate Thickness (mm)	Teeth Number	Weight (kg)
600	1200	16	40/50	8	750
700	1200	16	40/50	8	800
800	1200	20	40/50	10	650
900	1200	20	40/50	12	1050
1000	1200	20	40/50	14	1300
1200	1200	20	40/50	16	1750
1500	1200	20	40/50	20	2400
2000	800	20	50/50	26	3500

Note: Dimensions are in millimeters (mm) and weight in kilograms (kg). Data is for reference only. Specific selection should be confirmed according to on-site formation conditions.

Core Barrel with Bullet Teeth: Precision Coring and Grinding

This core barrel is engineered for efficient coring and grinding in medium-hard rock formations. It excels in stage breaking operations and delivers exceptional high core recovery rates, ensuring optimal performance in challenging drilling environments.



Step-by-Step Drilling

Bullet teeth enable precise stage breaking and grinding, maximizing efficiency across varying rock formations.



Superior Performance & Durability

Smaller barrels achieve high core recovery; larger ones optimize stage breaking, all built with high-strength materials for long-lasting use.

APPLICABLE FORMATIONS: Backfill layers, Medium weathered rock, Bedrock – versatile for a wide range of geological conditions.



Tailored Customization Options



Custom Dimensions

Cutting diameter & shell height adjusted for efficiency.



Kelly Box Fit

Custom sizing to match any Kelly bar specifications.



Component &

Tooth Config

Structural reinforcement & tailored tooth arrangement.



Targeted Reinforcement

Strengthened key areas for extended service life.

Core Barrel with Bullet Teeth Model List

Drilling Diameter (mm)	Shell Thickness (mm)	Ring Thickness (mm)	Shell Height (mm)	Teeth Number	Weight (kg)
600	16	40	1200	9	600
700 - 900	16 / 20	40	1200	9 / 12	700 - 900
1000 - 1400	20	40	1200	15 - 21	1050 - 1600
1500 - 2000	20	40	1000	24 - 27	1650 - 3000
2200 - 2500	20	40	800	30 - 36	3580 - 4100



Note: Dimensions are in millimeters (mm) and weight in kilograms (kg). Data is for reference only. Specifications are optimized for durability and performance in heavy-duty drilling applications.

Core Barrel with Roller Bits: Conquering Hard and Super-Hard Rock



This heavy-duty core barrel utilizes roller bits for a rolling and squeezing drilling method, which minimizes tooth wear and is highly effective in hard and super-hard rock formations.

01. KEY FEATURES

-  **Internal Stress Release:** The cutting ring design releases rock stress, facilitating easier and more efficient rock breaking.
-  **Low Wear & Versatile:** Rolling/squeezing action drastically reduces tooth wear; adaptable for high core recovery or primary rock breaking.



APPLICABLE STRATA

Ideal for medium/slightly weathered rock, hard rock, and superhard bedrock formations.



CUSTOMIZATION

Fully customizable diameter, shell height, reinforced structure, kelly box, and roller bit options.

Core Barrel with Roller Bits Model List

Drilling Diameter (mm)	Shell Thickness (mm)	Ring Thickness (mm)	Shell Height (mm)	Teeth Number	Weight (kg)
600	16	40	1500	4	660
700	16	40	1500	4	770
800	20	40	1500	6	950
900	20	40	1500	6	1050
1000	20	40	1500	8	1200
1100	20	40	1500	8	1350
1200	20	40	1500	10	1500
1300	20	40	1500	10	1650
1500	20	40	1500	12	1800
2000	20	40	1200	16	2400
2500	25	50	1200	20	4400

Note: Dimensions are in millimeters (mm) and weight in kilograms (kg). Data is for reference only.

Earth Auger: Reliable Drilling in Cohesive and Soft Formations

Our Earth Augers are engineered for efficient performance in clay, highly weathered rock, and gravel layers. The innovative double cutter head design ensures uniform force distribution, eliminating drilling deviation for precise, stable boreholes.

Stable & Precise Drilling

Dual cutter head ensures even force distribution, effectively preventing inclined holes and ensuring straight, accurate boreholes in challenging cohesive formations.

High-Efficiency Soil Removal

Double spiral flights deliver exceptional soil carrying capacity. For highly cohesive soils, a specialized single spiral configuration is available to optimize material discharge.

Heavy-Duty Engineering

Constructed with premium-grade materials to withstand extreme abrasion and the harsh conditions of earth drilling applications.



Ideal Formations

Optimized for clay layers, highly weathered rock, and gravel layers where standard tools struggle with stability.

Fully Customizable

Custom diameter, spiral height/pitch, tooth types (bullet/flat), and Kelly box sizes to match your specific rig requirements.

Earth Auger Model List

Cutting Dia. (mm)	Spiral HIT. (mm)	Spiral Pitch (mm)	Spiral THK. (mm)	Spiral OD. (mm)	Center Tube OD (mm)	Teeth No.	Weight (kg)
600	1000	400	20+30	550	180	5	550
800 - 1000	1500	600	20+30	750 - 950	219	6 - 9	750 - 950
1200	1500	600	30+30	1150	219	11	1050
1500 - 1800	1500	600	30+30	1450 - 1750	273	13 - 17	1450 - 1950
2000 - 2200	1500	600	40+40	1950 - 2150	273	19 - 20	2300 - 2500
2500 - 3000	1500	600	40+40	2450 - 2950	325	23 - 29	3100 - 4550



Note: Dimensions are in millimeters (mm) and weight in kilograms (kg). Data is for reference only. Always refer to the official product manual for the most accurate specifications for your soil conditions.

Open-body Drilling Tools: High Efficiency in Soft Formations



These tools are engineered for optimal performance in soft to medium-hard formations, featuring an open structure that enables rapid soil intake and efficient spoil discharge for uninterrupted drilling.



High Drilling Efficiency

The open structure allows for large soil intake and efficient spoil discharge, significantly reducing cycle times for each borehole.



Robust & Reinforced Design

Thickened shell, heavy-duty guide plates, and integrated reinforcing ribs ensure superior structural strength and an extended service life in demanding conditions.

APPLICABLE FORMATIONS

Ideal for clay layers, silt deposits, and highly weathered rock formations where efficient soil flow is critical.

CUSTOMIZATION

Available in custom cutting diameters, tooth types (bullet/flat), and Kelly box sizes to perfectly match your drilling rig.

Open-body Drilling Tools Model List

Drilling Diameter (mm)	Shell Height (mm)	Shell Thickness (mm)	Teeth Plate Thickness (mm)	Teeth Number	Weight (kg)
600	1200	25 / 30	40	8	950
700	1200	30 / 30	40	9	1050
800	1200	30 / 40	50	10	1280
900	1200	30 / 40	50	12	1380
1000	1200	30 / 40	50	14	1600
1200	1200	30 / 40	50	18	1800
1500	1200	30 / 40	50	22	2400

Note: Dimensions are in millimeters (mm) and weight in kilograms (kg). Data is for reference only.

Belling Bucket: For Underreaming and Compaction Piles

The Belling Bucket is a specialized tool used to create an enlarged base (underream) at the bottom of a pile, significantly increasing its load-bearing capacity by distributing structural loads over a wider soil area.

KEY FEATURES

Adjustable Reaming Diameter

Stable cutting arms adapt to precise diameter needs for varied project requirements.

Robust & Simple Structure

Box-type main body ensures easy arm spread/retraction and straightforward maintenance.



APPLICABLE FORMATIONS

Hard soil, Frozen soil, Medium-soft rock formations for reliable performance.

CUSTOMIZATION OPTIONS

Structural reinforcement, custom Kelly box, double/triple swing arms, and multi-limit hole configs.

Engineered for maximum efficiency, the Belling Bucket delivers consistent underreaming results across challenging geological conditions, ensuring enhanced pile stability and longevity.

Belling Bucket Model List

Model Size (mm)	Height (mm)	Limit Hole No.	Teeth Number	Intermediate level (mm)	Weight (kg)
600-1200	3050	2	14	800, 1000	900
800-1600	3100	2	16	1200, 1400	1100
1000-2000	3050	2	20	1500, 1800	1500
1200-2400	3050	2	24	1800, 2200	2400
1500-3000	4000	2	30	2600, 2800	2800

Note: Dimensions are in millimeters (mm) and weight in kilograms (kg). Data is for reference only.

Complete Range of Drilling Teeth & Holders



We offer a full range of high-quality drilling teeth and holders to match all our drilling tools and suit various ground conditions, ensuring reliability across diverse applications.

Bullet Teeth

Engineered for heavy-duty rock grinding and breaking applications, delivering exceptional penetration and wear resistance in hard formations.

Flat Teeth

Ideal for efficient cutting in softer soil and formations, providing a smooth and fast drilling experience with minimal vibration.

Tooth Holders

Comprehensive selection including WS type, BR/BH weld-on holders, and custom solutions for secure and stable tooth mounting.

Accessories

A full line of replacement parts such as locking pins, sleeves, and retainers to keep your drilling equipment running smoothly.

Your Partner for Tailored Drilling Solutions

At CHANGSHU YE LU SING FIRM, we understand that every project is unique. Our engineering team works closely with you to develop customized drilling tools that meet your specific requirements and challenges, ensuring optimal performance in even the most demanding environments.

01 / CUSTOMIZATION CAPABILITIES



Custom Sizes

Tailor diameter, height, length, and pitch to match exact operational needs.



Specialized

Designs

Unique tooth configurations, bottom mechanisms, and structural reinforcements.



Material Selection

Choose from high-performance steels and wear-resistant alloys for durability.



Compatibility

Engineer tools to seamlessly integrate with any make or model of drilling rig.

02 / STREAMLINED PROCESS

1

Consultation

Deep dive into project requirements and geological conditions.

2

Design

Engineers craft a bespoke solution using advanced CAD modeling.

3

Manufacturing

Precision machining to exact specifications for superior performance.

4

Testing & Delivery

Rigorous quality control and on-time delivery to your site.

Get in Touch

CHANGSHU YE LU SING FIRM

We are committed to providing faster, more reliable, and more satisfying services. For more information or to discuss your specific needs, please contact us using the details below.



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