

泰业钻机

全系列产品

FULL RANGE OF PRODUCTS

A QUALITY PRODUCT IS BUILT ON INNOVATION

If you have any questions, please don't hesitate to contact us.

Xuanhua Taiye Drilling Machinery Co., Ltd.

Add: No. 146, Zhonglou Road, Xuanhua, Zhangjiakou City,
Hebei Province, P.R. China

Post code: 075100

Tel: +86-0313-3865999 3887999

Fax: +86-0313-3865989

<http://www.taiyedrill.com>

E-mail: sales@taiyedrill.com



Note: Taiye Drilling Rig reserves the right of final interpretation due to the continuous upgrading of its products 2024.11



For thirty years, we have focused on one thing: researching and developing drilling rig equipment.

Adhering to the business philosophy of small scale & high precision, we manufacture reliable products with exquisite craftsmanship.

We strive to be your trusted professional service provider of DTH drilling rigs.



1996

Taiye Drilling Rigs was founded in 1996. A team of five embarked on the journey of independent research and development.

2002

The first crawler-mounted pneumatic drill rolled off the production line. Having broken the market blockade imposed by foreign brands, we embarked on a journey of continuous innovation and international expansion.

2003

Taiye Drilling Rigs ventured overseas for the first time, providing services at construction sites in Zambia, marking the official start of our foreign trade business.

2008

The new factory was completed. In the same year, we launched the TAIYE-370-DTH hydraulic down-the-hole drill with lower drilling costs, further strengthening our product competitiveness.

2010

We entered into a technical cooperation with Furukawa Rock Drill from Japan to manufacture the PCR-II full pneumatic drill, which was successfully launched into the global market.

2014

We actively collaborated with major universities and research institutions. The automatic rod handling drill TAIYE-X5-DTH rolled off the production line, marking a major milestone in our automation development.

2017

Both domestic and overseas markets achieved rapid growth. Our drilling rigs are exported to more than 20 countries, including South Korea, Indonesia, Thailand, Russia, Kazakhstan, South Africa and Ghana.

2019

After passing rigorous inspections, Taiye X-series integrated hydraulic open-pit down-the-hole drills were officially launched, elevating product performance and reliability to new heights.

2024

Taiye Compact Integrated Drill Series 660/670 has become a mainstream model in mining operations and earned wide trust across the market.

2026

The brand-new intelligent drilling control system rolled off the production line, ushering in the era of unmanned drilling rig operation.

1996-2026
30

Xuanhua Taiye DTH Machinery Co., Ltd.

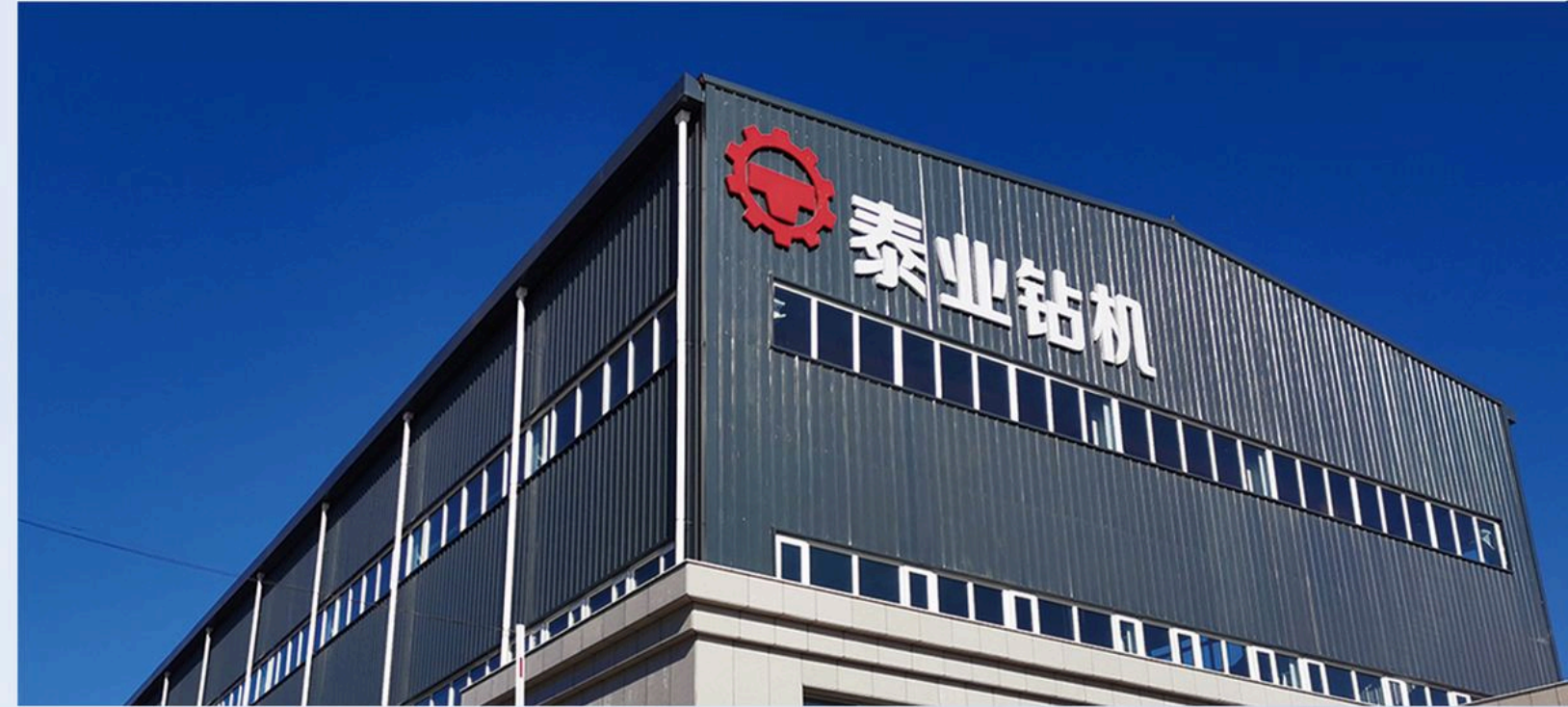
Xuanhua Taiye DTH Machinery Co., Ltd. Located in the core industrial zone of Xuanhua District, Zhangjiakou City, Xuanhua Taiye DTH Machinery Co., Ltd. is a private equipment manufacturer integrating research & development, production and sales. Since 1996, we have dedicated ourselves to the down-the-hole drilling rig industry. We specialize in manufacturing drilling machinery applicable to open-pit blasting, photovoltaic projects, municipal infrastructure, metallic and non-metallic mines and other working scenarios. Supported by strong manufacturing capacity, we have evolved into a professional supplier of comprehensive drilling solutions across the industry. Taking intelligence, energy conservation and environmental protection as core development priorities, the company keeps upgrading high-end engineering equipment iteratively.

In terms of intelligent manufacturing, our rigs are equipped with fully self-developed control systems and electro-hydraulic systems, which have realized comprehensive upgrades of conventional drilling equipment. The full-process intelligent operation covers data collection and analysis, automatic hole searching, positioning, drilling and remote control. Supported by 5G and Internet of Things (IoT) technologies, our equipment enables remote operation and unmanned construction. It effectively eliminates risks in high-risk operations, improves construction quality and efficiency, and accelerates the transformation from labor-dependent construction to intelligent unmanned operation modes.

For energy saving, we maintain in-depth cooperation with leading engine manufacturers at home and abroad to customize exclusive hybrid power systems. Our self-developed programs realize coordinated operation of fuel and electric power. The system can intelligently adjust power output and precisely control fuel consumption according to actual working conditions, greatly cutting down equipment energy consumption and customers' operation and maintenance costs, thus achieving long-term cost reduction and efficiency improvement.

In the field of green development, we closely follow China's Dual Carbon Strategy. Based on the mature application of intelligent and hybrid drilling rigs, we focus on researching and developing zero-emission, low-noise all-electric intelligent drilling rigs, while also developing technologies for hydrogen energy drilling rigs. We have built a multi-dimensional green product system consisting of hybrid, all-electric and hydrogen-powered rigs, contributing to the low-carbon and sustainable development of the whole industry.

Relying on reliable product quality and premium after-sales services, our drilling equipment is widely used in all provinces, municipalities and autonomous regions across China, and exported to nearly 30 countries and regions worldwide. We have established long-term strategic cooperation with many large domestic enterprises, ranking among the top brands in the industry in terms of brand strength and market reputation.



Drilling Machinery



Drilling Accessories



Construction Leasing



After-Sales Service

Assembly Workshop



Heavy Machine Shop



Warehouse



ENTERPRISE PROFILE

Technical Parameter

Rig Model		D10 Dual Engine	D8 Single Engine
Drilling Parameters	Hole Diameter Range mm	203-275	178-230
	Drill Pipe Specification mm	133/146X9000	127/133X9000
Propulsion System Parameters	Rotary Speed rpm	0-70	0-90
	Rotary Torque Nm	7610	6500
	Lifting Force KN	60	60
	Propulsion Stroke mm	9600	9600
Air Compressor	Air Compressor Brand	Atlas Copco	Atlas Copco
	Air Displacement m³/min	38.3/35.4	35
	Working Air Pressure bar	20/25	25
Twin-Engine Parameters	Power Kw/rpm	410/1900	—
	Manufacturer	Dongfeng Cummins Generator Co., Ltd.	Dongfeng Cummins Generator Co., Ltd.
	Power Kw/rpm	133/2200	563/2100
Transport Dimensions	14500mmX3500mmX3600mm		14500mmX3200mmX3600mm
Weight	37500kg		35000kg

Dual-Power System Design

This rig adopts the Cummins QSB5.9-C180-33 engine as the power source for the hydraulic system and the QSZ13 engine to drive the Atlas Copco air compressor system. Designed with two independent power systems, the equipment enables convenient maintenance and troubleshooting. In addition, only a single engine is required for site relocation and transition, which effectively reduces fuel consumption and operational costs for customers.

Hydraulic Winch

Equipped with a matched hydraulic winch, it assists workers in hoisting drilling tools and workpieces, effectively improving construction preparation efficiency and enhancing operational safety.

Truss-Type Drill Mast

Made of manganese steel, the drill mast boasts superior impact resistance and longer service life. Adopting truss structure, combined with lightweight design and modular arrangement, it effectively reduces structural deformation during drilling operations and ensures high drilling accuracy.

TAIYE-D8-DTH Integrated Hydraulic DTH Drill

The TAIYE-D8-DTH is a brand-new integrated open-pit DTH drill rig dedicated to large-diameter drilling operations. It is upgraded and manufactured based on the KQG large-bore drilling rig platform, inheriting Taiye's sophisticated manufacturing technology and the design advantages of heavy-duty open-pit DTH drills. Equipped with 9-meter drill rods, it is fitted with an advanced hydraulic load-sensing system and two-stage screw air compressor system. The configuration ensures excellent power performance, boosts drilling penetration efficiency and cuts down fuel consumption. Featuring four-point hydraulic telescopic outriggers, it serves as an ideal choice for large-scale mining exploitation.



TAIYE-D8-DTH

Technical Parameter

Rig Model		X6A	X5A
Drilling Parameters	Hole Diameter Range mm	138-190	115-152
	Drill Pipe Specification mm	89/102X5000	89X5000
Propulsion System Parameters	Rotary Speed rpm	0-100	0-110
	Rotary Torque Nm	4300/5500	3400/4300
	Lifting Force KN	30	20
	Propulsion Stroke mm	5860	5860
Air Compressor	Air Compressor Brand	Atlas Copco	Atlas Copco
	Air Displacement m³/min	25	19.5
	Working Air Pressure bar	24	24
Engine Parameters	Manufacturer	Dongfeng Cummins Generator Co., Ltd.	Dongfeng Cummins Generator Co., Ltd.
	Power Kw/rpm	316	264
Transport Dimensions	12000mmX2850mmX3850mm		12000mmX2850mmX3850mm
Weight	21000kg		20800kg

Two-stage Screw Compressor Main Unit

Fitted with original Atlas Copco two-stage screw air compressor and genuine control system components, the whole machine features accurate and stable output pressure regulation, achieving low energy consumption and high working efficiency.

Dual-Power System Design

This rig adopts the Cummins QSB5.9-C180-33 engine as the power source for the hydraulic system and the QSZ13 engine to drive the Atlas Copco air compressor system. Designed with two independent power systems, the equipment enables convenient maintenance and troubleshooting. In addition, only a single engine is required for site relocation and transition, which effectively reduces fuel consumption and operational costs for customers.

Dual-Power System Design

This rig adopts the Cummins QSB5.9-C180-33 engine as the power source for the hydraulic system and the QSZ13 engine to drive the Atlas Copco air compressor system. Designed with two independent power systems, the equipment enables convenient maintenance and troubleshooting. In addition, only a single engine is required for site relocation and transition, which effectively reduces fuel consumption and operational costs for customers.



TAIYE-X6A-DTH Integrated Hydraulic DTH Drill Rig

Developed in response to market and customer demands, the TAIYE-X6A-DTH leverages Taiye's solid expertise in mechanical structure manufacturing. Following the principle of integrating operators, equipment and working conditions, this model combines outstanding reliability, flexibility, operational comfort and safety, aiming to deliver top-tier products for clients. It is ideally suited for blast hole drilling in open-air projects including metallurgy, mining, building materials, railway, hydropower construction, national defense engineering and earthwork operations, delivering reliable performance for such applications.

Technical Parameter

Rig Model		X55	X50
Drilling Parameters	Hole Diameter Range mm	115-152	90-130
	Drill Pipe Specification mm	89X5000	76X4000
Propulsion System Parameters	Rotary Speed rpm	0-120	0-120
	Rotary Torque Nm	4300	3400
	Lifting Force KN	20	20
	Propulsion Stroke mm	5860	4670
Air Compressor	Air Compressor Brand	BSC	BSC
	Air Displacement m³/min	20	18
	Working Air Pressure bar	21(24Max)	20
Engine Parameters	Manufacturer bar	Dongfeng Cummins Generator Co., Ltd.	Dongfeng Cummins Generator Co., Ltd.
	Power Kw/rpm	264	221
Transport Dimensions	12000mmX2650mmX3800mm		11000mmX2650mmX3700mm
Weight	20000kg		19000kg

Screw Compressor Main Unit

The system matching of turbocharged engine and two-stage screw air compressor enables low-speed operation, realizing energy conservation and environmental protection. The power unit adopts longitudinal layout design for easy maintenance and upkeep.

Two-stage Energy-saving Screw Air Compressor

Adopting low-speed large rotor and high-efficiency screw profile technology, this two-stage screw compressor features high energy efficiency, long service life and low fuel consumption.

Indoor Operating System

The cab is certified with internationally recognized ROPS and FOPS qualifications. The operation console adopts ergonomic design with reasonable layout for easy maintenance and simple operation. All hydraulic components are well-known branded products, ensuring precise and reliable operation. The indoor noise level is lower than 85dB, delivering superior driving comfort for operators.

TAIYE-X55-DTH

TAIYE-X55-DTH Integrated Hydraulic DTH Drill Rig

The TAIYE-X55-DTH is a full-hydraulic open-pit DTH drill rig that integrates superior performance advantages of various models, featuring high efficiency, energy saving and environmental friendliness. It is applicable to drilling and blasting operations on rocks of different hardness in open-pit mines and quarries.

Equipped with Maltese mechanism rod storage system for automatic rod loading and unloading, it realizes fast rod replacement with simple, stable and reliable structure.

Adopts EATON integrated brake motor with large output torque, compact structure and high safety and reliability.

Matched with load sensing system, it delivers smooth control, high working efficiency, low energy consumption and remarkable fuel saving effect.

Floating shock-absorbing joint is installed on rotary power head to extend its service life and reduce thread wear of drilling tools. Both slide frame and slide rail are made of manganese steel and fitted with high polymer wear-resistant materials for long service life.



Technical Parameter

Rig Model		T45 (Cab Version)		T35
Drilling Parameters	Hole Diameter Range mm	76-127	64-115	64-115
	Drill Pipe Specification	T45/T38	T51/T45	T45/T38
Drifter Parameters	Model	YH-100	YH-135	YH-100
	Impact Power Kw	20.6	24.7	20.6
	Impact Frequency Bpm	2500	2600	2500
	Rotary Torque Nm	785	1177	785
Air Compressor	Air Compressor Brand	Sullivan-Palatek		Sullivan-Palatek
	Air Displacement m³/min	10.5		10.5
	Working Air Pressure bar	10.5		10.5
Engine Parameters	Manufacturer	Dongfeng Cummins Generator Co., Ltd.		Dongfeng Cummins Generator Co., Ltd.
	Power Kw/rpm	191		191
Transport Dimensions	11500mmX2550mmX3200mm			11000mmX2900mmX3700mm
Weight	15000Kg			14000Kg

Hydraulic Rock Drill

It is equipped with original imported YAMAMOTO series hydraulic rock drills from Japan. Featuring authentic quality, reliable and stable performance, the drill delivers strong impact power and high striking frequency. Its drilling efficiency on hard rock is 20%-30% higher than that of ordinary brands. Additionally, it requires easy maintenance and has low costs for wearing parts.

Folding Boom

The folding boom enables broader coverage of hole layout areas. Multiple holes can be drilled from a single position, and it delivers superior performance when working on edges and slopes.

Compressor

Equipped with original imported Sullivan-Palatek SP16 two-stage screw air compressor and control components. It has an air output of 10.5m³/min and a working pressure of 10.5bar. It supplies sufficient air for hole flushing to discharge rock cuttings smoothly, ensuring adequate drilling pressure and high penetration efficiency.

TAIYE-T45-TH Integrated Hydraulic Rock Drill

This fully hydraulic top hammer rock drill adopts hydraulic pilot and electric control operation. Its rock drilling system features anti-jamming and anti-blocking functions. It realizes automatic engine speed matching, automatic loading/unloading and pressure reduction control of air compressor, ensuring high-efficiency and fuel-saving drilling. Widely applicable to open-air projects such as metallurgy, mining, building materials, railway, hydropower, national defense construction and earthwork engineering, it offers reliable operation guarantee.



TAIYE-T45-TH

Technical Parameter

Rig Model		660H	670-III
Drilling Parameters	Hole Diameter Range mm	90-130	90-152
	Drill Pipe Specification mm	76X4000	76X4000/89X3000（optional selection）
Propulsion System Parameters	Rotary Speed rpm	0-150	0-140
	Rotary Torque Nm	2950	2850/3500
	Lifting Force KN	20	20
	Propulsion Stroke mm	4670	4670/3820（optional selection）
Air Compressor	Air Compressor Brand	BSC	BSC
	Air Displacement m³/min	16	20
	Working Air Pressure bar	20	21(24Max)
Engine Parameters	Manufacturer	Guangxi Yuchai Machinery Co., Ltd.	Guangxi Yuchai Machinery Co., Ltd.
	Power Kw/rpm	206	250
Transport Dimensions	9950mmX2900mmX3700mm		10500mmX3000mmX3700mm
Weight	13100kg		13800kg

Desert Air Filter

Suitable for heavy dust working conditions. Adopts two-stage filtration structure, with pre-filter efficiency ≥85% and fine filtration efficiency ≥99.99%. It effectively protects engines from abrasion, extending maintenance intervals and service life of equipment.

Power System

Equipped with Yuchai turbocharged diesel engine, it delivers powerful performance with high efficiency and environmental friendliness. The hydraulic pump, air compressor, engine and radiator are longitudinally connected, facilitating daily maintenance.

High-torque Rotation System

The high-torque rotary head is fitted with floating buffer joint. It extends service life of drilling tools, reduces impact reaction force during drilling and prolongs the lifespan of rotary head.

TAIYE-670-DTH

TAIYE-670-DTH Integrated Hydraulic DTH Drill

Compared with traditional split drills towed with air compressors, this model features superior flexibility and convenient relocation. It combines the performance strengths of multiple models, delivering high efficiency and low energy consumption, serving as an ideal device for construction projects. It is mainly applied to drilling operations in medium-hard rock layers of quarries, water conservancy, hydropower projects and metal mines.



Technical Parameter

Rig Model		390 (Cab Version)	370-VIII
Drilling Parameters	Hole Diameter Range mm	115-178	115-203
	Drill Pipe Specification mm	89X3000/76X4000	76/89/102X3000
Propulsion System Parameters	Rotary Speed rpm	0-100	0-110
	Rotary Torque Nm	3400/4300	3400/4300
	Lifting Force KN	20	20
	Propulsion Stroke mm	3820/4670	3600
Working Angle	Feed Carrier Swing (°)	Left 90/ Right 26	Left 90/ Right 24
	Feed Pitch (°)	147	140
	Boom Swing (°)	Each side 35	Each side 45
	Boom Luffing (°)	Horizontal 55/23	Horizontal 50/25
Engine Parameters	Manufacturer	Guangxi Yuchai Machinery Co., Ltd.	Guangxi Yuchai Machinery Co., Ltd.
	Kw/rpm Power	81	81
Transport Dimensions	8540mmX2780mmX3400mm		8500mmX3000mmX3400mm
Weight	11000kg		11000kg

TAIYE-370-VI-DTH Automatic Rod Changing Split DTH Drill

This split hydraulic DTH drill is fitted with an automatic rod changing mechanism. It features flexible relocation, excellent off-road capability and strong site adaptability. The rod mounting and dismounting is safe, efficient, simple to operate and easy to maintain. It is widely used for mining operations in medium and large open-pit mines including metallurgical mines, cement mines, coal mines and quarries.

Desert Air Filter

Suitable for heavy dust working conditions. Adopts two-stage filtration structure, with pre-filter efficiency ≥85% and fine filtration efficiency ≥99.99%. It effectively protects engines from abrasion, extending maintenance intervals and service life of equipment.

Power System

Equipped with Yuchai turbocharged diesel engine, it delivers powerful performance with high efficiency and environmental friendliness. The hydraulic pump, air compressor, engine and radiator are longitudinally connected, facilitating daily maintenance.

High-torque Rotation System

The high-torque rotary head is fitted with floating buffer joint. It extends service life of drilling tools, reduces impact reaction force during drilling and prolongs the lifespan of rotary head.



TAIYE-370-DTH

Technical Parameter

钻机型号 Rig Model		370-VI	360
钻孔参数 Drilling Parameters	孔径范围mm Hole Diameter Range	90-178	90-130
	工作风压bar Working Air Pressure	17-25	13.8-24.6
推进系统参数 Propulsion System Parameters	回转速度rpm Rotary Speed	0-110	0-110
	回转扭矩Nm Rotary Torque	3400	1970
	提升力KN Lifting Force	20	20
	推进行程mm Propulsion Stroke	3951	3860
工作角度 Working Angle	滑架摆动 (°) Feed Carrier Swing	左54/右50	左53/右35
	滑架俯仰 (°) Feed Pitch	135	180
	钻臂摆动 (°) Boom Swing	左右各45	左右各45
	钻臂俯仰 (°) Boom Luffing	水平53/21	水平60/25
发动机参数 Engine Parameters	制造商 Manufacturer	广西玉柴机器股份有限公司 Guangxi Yuchai Machinery Co., Ltd.	广西玉柴机器股份有限公司 Guangxi Yuchai Machinery Co., Ltd.
	功率Kw/rpm Power	73.5	56
运输尺寸 Transport Dimensions	5750mmX2300mmX2300mm		6900mmX2350mmX2300mm
重量 Weight	7400kg		6300kg

Rotary Gearbox

The straight-tooth gearbox features low temperature rise, high load capacity and long service life. The rotary speed can be adjusted according to rock hardness. Fitted with Eaton hydraulic motor, the rotary head operates steadily. The standard reinforced shock-absorbing joint effectively reduces impact reaction force during drilling.

Off-road Performance

The frame adopts gravity shaft design, which reduces running friction resistance and strengthens the connection between the body and tracks. The chassis is durable and resistant to deformation.

Dust Removal Device

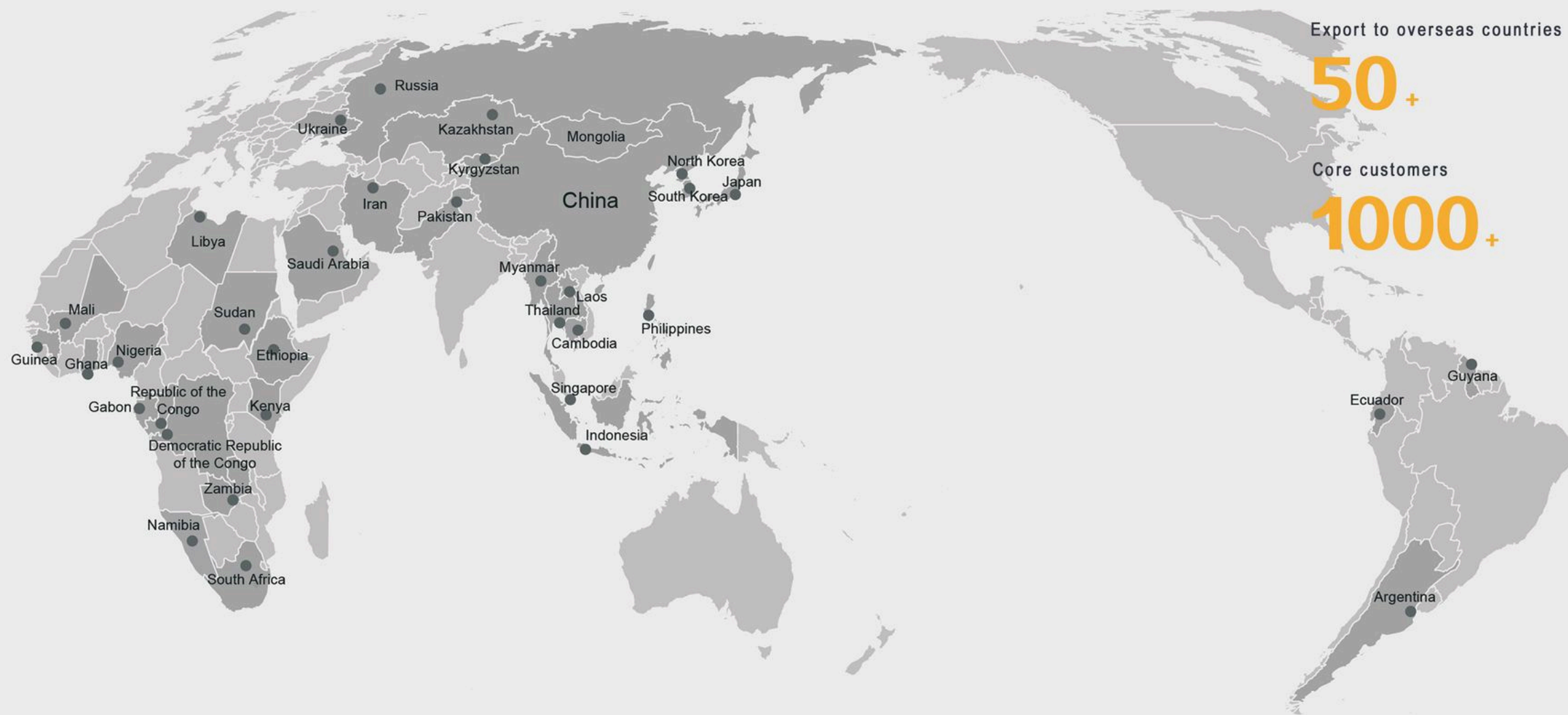
The dust collector adopts pulse jet cleaning technology, featuring powerful ash cleaning capacity, high dust removal efficiency, low emission concentration, low air leakage rate and low energy consumption. It runs stably and reliably to protect operators' health. Equipped with high-quality filter materials, it maintains excellent dust removal performance and long service life.

TAIYE-360-DTH

TAIYE-360-DTH Hydraulic DTH Drill

This split-type open-air hydraulic DTH drill is widely used for mining in open-pit mines such as metallurgical, cement, coal mines and quarries, as well as for blasting hole drilling in railway, highway, water conservancy, hydropower and national defense projects. It is compatible with various models of air compressors to realize high-pressure DTH drilling.





Independent R&D of Core Technologies

Start with mine demands, succeed with clients' trust; Taiye persists in empowering customers with craftsmanship.

We will work closely with you

We provide 24/7 all-round support, Fault consultation and repair requests are received and handled promptly.

Our professional team provides on-site maintenance, conducts accurate troubleshooting and repairs equipment efficiently.

Adequate spare parts inventory and efficient delivery greatly shorten waiting time.

We provide free hands-on operation and maintenance training to help customers use equipment in a standardized manner and reduce losses.

We maintain complete after-sales records for follow-up, and assign dedicated specialists to provide one-on-one service, so as to continuously optimize user experience.

One goal

To enhance customer satisfaction.

One purpose

Customer First, Integrity-Based

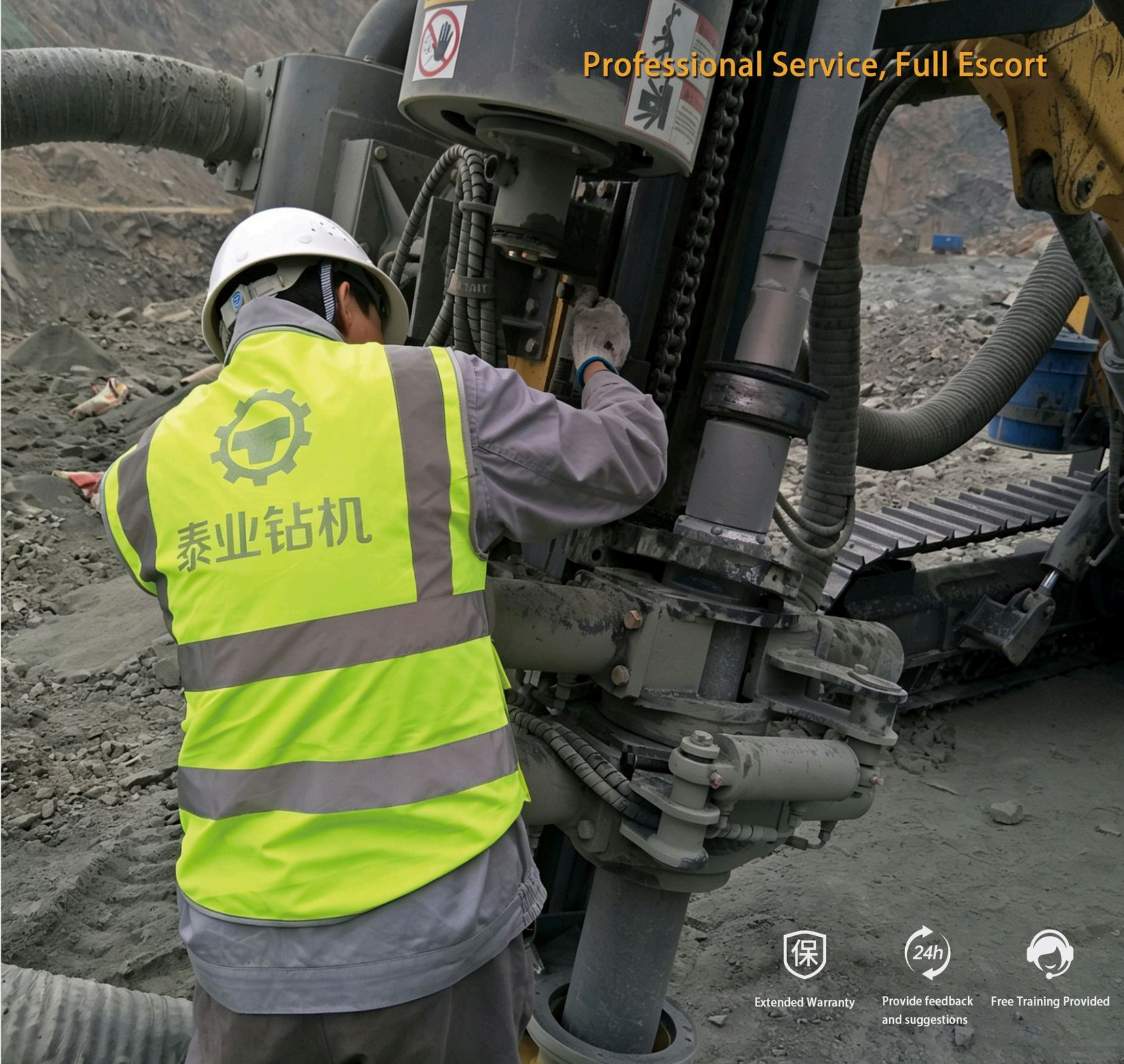
One concept

Create value and grow together with customers.

One strategy

We provide professional, all-round and one-stop total solutions.

Professional Service, Full Escort



Extended Warranty



Provide feedback
and suggestions



Free Training Provided