

TRUSTWORTHY EXPERT OF PILE MACHINERY

MANUFACTURER OF EXCELLENT PRODUCTS



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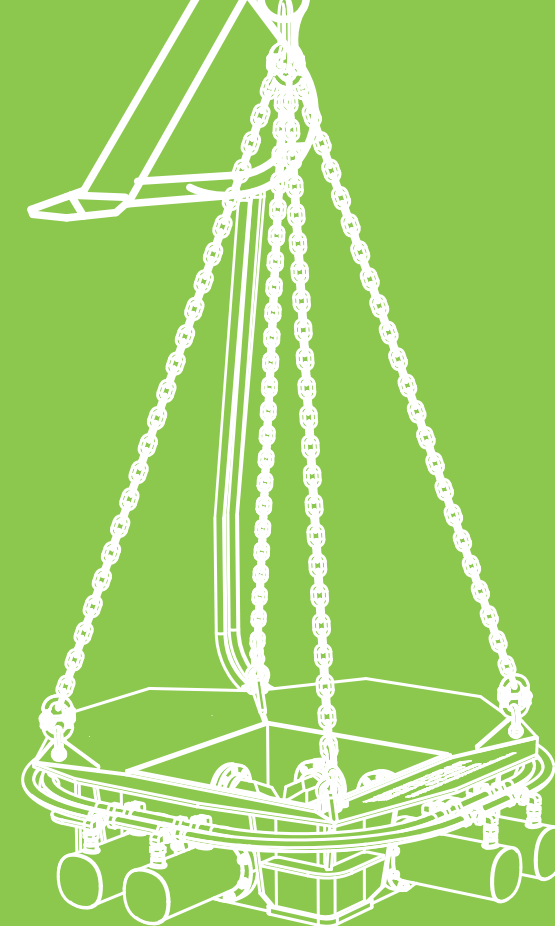


LOWER COST HIGHER EFFICIENCY

MODULE DESIGN MULTI-FUNCTION

NEW UPDATE OF 3 GENERATION

BUMBLEBEE
HYDRAULIC PILE BREAKER



TYSIM PILING EQUIPMENT



TYSIM PILING EQUIPMENT

TYSIM Products

		
KR125A Rotary Drilling Rig	KP400S Hydraulic Pile Breaker/Cutter	KR90C Rotary Drilling Rig
		
KP315A Hydraulic Pile Breaker/Cutter	KR40 Modular Rotary Drilling Rig	KM260 Telescopic Arm+HYUNDAI R360
		
KR50 Modular Rotary Drilling Rig		

Core Idea
Focus, Create, Value

Vision
Pioneer of Small Piling Equipment

TYSIM PILING EQUIPMENT CO., LTD is the sole professional national high-tech enterprise of R&D and manufacturing small and middle piling equipment in China, with ISO9001 quality management system. The products include hydraulic piling rig, modular piling rig, hydraulic pile breaker, mechanical diaphragm wall grab and other related products. TYSIM KR series of small piling rigs and KP series of hydraulic pile breakers are the domestic famous brands.

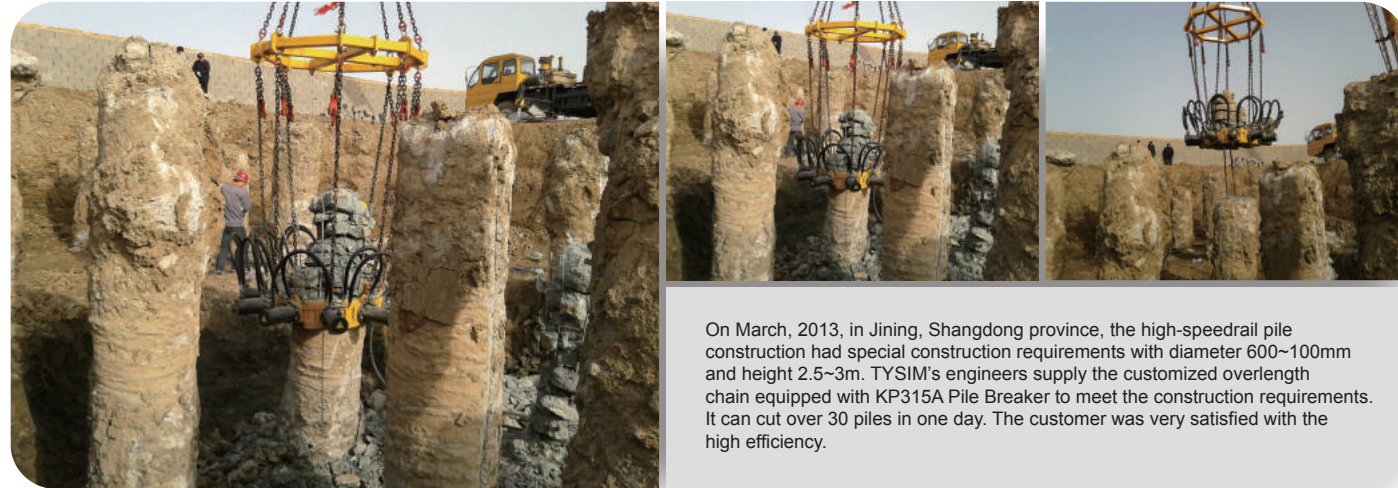
With over 40 patents, TYSIM KR series of small piling rigs have obtained the CE certificate, which will be suitable for various civil and urbanization construction projects. Featuring high efficiency and reliable performance, KR series of small piling rigs have gained well reputation in both China and abroad customers in the construction projects for subway, viaduct and residential buildings. Exported to Australia, Russia, Thailand, Argentina, Indonesia, Zambia, Malaysia, Vietnam, Dominica and other countries, TYSIM piling rigs will become the optimal machinery for the urbanization infrastructure construction.

The originated KP series of hydraulic pile breakers (also named as concrete pile cutter) can cut large amount of pile head rapidly, which has changed the traditional manual cutting method in China. TYSIM KP series of hydraulic pile breakers have won 11 core patents, including one patent for invention in China. At present, TYSIM hydraulic pile breakers have been exported to America, Russia, Brazil, Australia, Vietnam, Indonesia, Sri Lanka and other over 30 countries.

With good international vision and excellent engineers team, TYSIM holds the concept of “Focus, Create, Value” and focuses on the R&D of piling foundation construction products. With the work style of “Focus on details,keep improving”, We will try to build the “TYSIM” to become “Domestic first class and International famous” brand of professional piling equipment in 5 years.



Pile of High-Speed Rail Construction in Shangdong Province



On March, 2013, in Jining, Shangdong province, the high-speedrail pile construction had special construction requirements with diameter 600~100mm and height 2.5~3m. TYSIM's engineers supply the customized overlength chain equipped with KP315A Pile Breaker to meet the construction requirements. It can cut over 30 piles in one day. The customer was very satisfied with the high efficiency.

Construction in Suqian, Jiangsu Province



On May, 2013, Square Pile Breaker cut precast pile in Suqian, Jiangsu province. Mr. Hu, the customer used KP500S Pile Breaker, KPS315 Pump Station and 25T Crane(or tower crane) in construction. It can cut over 100 piles with diameter 400~500mm in one day, which brings great benefits.

Construction in Danjiangkou, Hubei Province



On Sept, 2014, in Danjiangkou, Hubei province, the pile construction of the largest houses had over 1000 piles with diameter 1.2~1.5m and height 1.0~1.5m. There were many difficulties in construction such as large working, short working period, irregular pile diameter and ponding. The contractor bought a KP380A Pile Breaker to use with 230 CYD excavator. It can cut over 30 piles in one day to finish the construction on schedule. The customer was very satisfied with the product.

Construction in Thailand



On Sept,2015, Thailand customer use TYSIM KP315A hydraulic pile breaker and KR80A rotary drilling rig to do foundation pile construction in Phuket, Thailand.

Construction in Yichang, Hubei Province



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Construction in Lanzhou, Gansu Province



On Sept,2015,the customer use TYSIM KP380A hydraulic pile breaker with Hyundai excavator to cut building piles in Lanzhou, Gansu Province. The efficiency of pile breaker is 20 times than human work. Also, TYSIM pile breaker with lower cost won customer's praise.

TYSIM Third Generation Hydraulic Pile Breaker

Based on the original technology advantages, KP series pile breaker further extend the service life, increase working efficiency and add maintainability. Convenient structure design with easy maintenance will reduce risk cost.



Safe chain with CE certificate will be suitable for different construction requirements by adjusting its length to ensure the construction safety.



Casting steel with longer service life isn't easy to deformation or cracking, which can extend the pile breaker's service life and increase its using value.



Improved design of drill rod with higher reliability can extend its service life. Convenient structure design with easy maintenance will reduce risk cost.



Unique design of lifting frame can adjust the lifting point to meet the requirements of different pile diameter constructions, which can make construction more smooth and higher efficient.



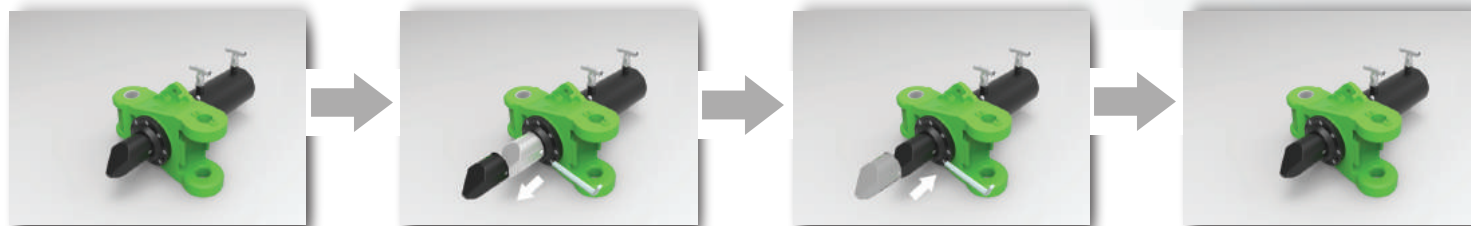
Cylinder parts use special material with longer service life. Imported seal can ensure the quality.



Integral forging heat treatment of guide flange use wearproof material with reliable quality.



Perfect adapters and other spare parts can be suitable for all types excavators.



Mature construction method guide to make construction faster.



KP315 III /KP380 III Hydraulic Pile Breaker

PERFORMANCE

- The leading hydraulic pile breaker/cutter, with five patented technologies, is the most efficient equipment to crushing the foundation piles and fills the domestic gap;
- Using advanced modular design, it can be used for crushing piles of different diameters by changing the module combination quantity;
- It can be installed on a large variety of construction machinery, realizing the versatility and economy.
 - Simply operated with less staff, reducing the construction cost;
 - Crushing the piles wholly, reducing the consumption of energy;
 - Using adjustable chain, the pile breaker/cutter can be applied to constructions in different terrains;
 - Full hydraulic drive, low noise operation;
 - Quick assembled, more convenient to transport and more efficiently;
 - Applying new material and new technology makes it much more reliable and reduces maintenance cost;
 - The design of simple changing modular and general technology can realize quick maintenance and extend the service life;
 - The design of long service life can bring customers optimal benefits.

KP315 III



KP380 III



KP315 III construction parameters

Module quantity	Diameter range (mm)	Excavator capacity (t)	Weight (kg)	Height of single cutting pile (mm)	System recommended flow (L/min)
6	300~350	≥12	1000	≤300	150
7	350~450	≥12	1100	≤300	160
8	450~550	≥16	1200	≤300	180
9	550~650	≥16	1300	≤300	190
10	650~760	≥20	1400	≤300	200
11	760~860	≥20	1500	≤300	220
12	860~960	≥20	1600	≤300	230
13	960~1050	≥20	1700	≤300	250

KP380 III construction parameters

Module quantity	Diameter range (mm)	Excavator capacity (t)	Weight (kg)	Height of single cutting pile (mm)	System recommended flow (L/min)
8	600	≥20	2200	≤300	200
9	700	≥20	2430	≤300	230
10	800~900	≥25	2660	≤300	260
11	1000	≥25	2890	≤300	290
12	1100	≥25	3120	≤300	320
13	1200	≥28	3350	≤300	350
14	1300~1400	≥28	3580	≤300	380
15	1500	≥30	3810	≤300	410
16	1600	≥30	4040	≤300	440
17	1700	≥35	4270	≤300	470
18	1800	≥35	4500	≤300	500

Technical specification	13 modules combination	18 modules combination
Pile diameter (mm)	300~1050	600~1800
Max.rod pressure (kN)	280	600
Max.cylinder stroke (mm)	135	150
Max.crowd pressure (MPa)	34.3	34.3
Max.single cylinder flow (L/min)	20	30
Quantity/8h	60/8 h	48/8 h
Max.single cutting height (mm)	≤300	≤300
Excavator capacity (t)	≥20	≥35
Single module weight (kg)	100	230
Single module size (mm)	520×444×316	696×566×350
Operating size (mm)	Φ2098×4000	Φ3316×4840
Overall weight (t)	1.7	4.5

KP400S/KP450S/KP500S Hydraulic Pile Breaker

PERFORMANCE

KP400S/KP450S

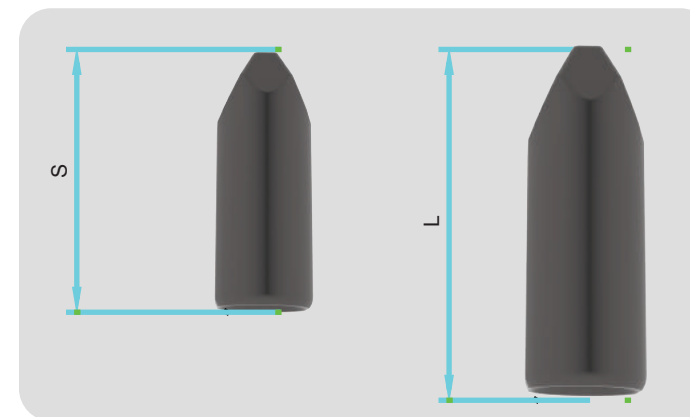


KP500S

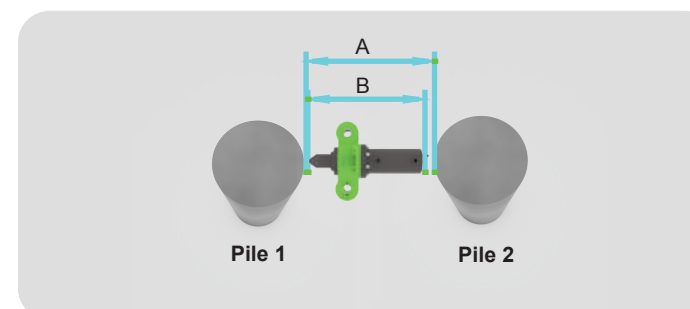


Technical specification

Type	KP400S	KP450S	KP500S
Pile length (mm)	250~400	350~450	400~500
Max.rod pressure (kN)	280	280	280
Max.cylinder stroke (mm)	135	135	135
Max.crowd pressure (MPa)	34.3	34.3	34.3
Max.single cylinder flow (L/min)	20	20	20
Quantity/8h	160/8h	180/8h	200/8h
Max.single cutting height (mm)	≤300	≤300	≤300
Excavator capacity (t)	≥7	≥8	≥10
Operating size (mm)	1440×1440×1500	1490×1490×1500	1588×1588×1500
Overall weight (t)	0.55	0.57	0.8



Model	Length of S Short Drill Rod	Length of L Long Drill Rod
KP315 III	200 mm	250 mm
KP380 III	260 mm	310 mm
KP400S	200 mm	250 mm
KP450S	200 mm	250 mm
KP500S	200 mm	250 mm



Model	Min. Pile Distance A	Max. Unilateral Size of Machine B
KP315 III	700 mm	655 mm
KP380 III	880 mm	830 mm
KP400S	700 mm	655 mm
KP450S	700 mm	655 mm
KP500S	700 mm	655 mm

KPS22/KPS37 Electric Hydraulic Power Pack

PERFORMANCE

- Good tooling of civil construction, used with pile breaker perfectly, low cost;
- Intelligent design of changing from wired to wireless control easily;
- Through electric power driving pile breaker, more convenient;
- Technical improvement with variable adjustment of power output, high efficiency and environment protection;
- International first-class air cooling makes motivation for a long time;
- Using high quality parts can be trustworthy.

Technical specification of KPS37

Model	KPS37
Working medium	32#or 34#anti-wear hydraulic oil
Fuel tank volume (L)	470
Max.flow rate (L/min)	240
Max.operating pressure (bar)	315
Motor power (KW)	37
Motor frequency (HZ)	50
Motor voltage (V)	380
Motor working speed (rpm)	1460
Working wieght(full tank) (kg)	1400
Wireless control distance (m)	200



Technical specification of KPS22

Model	KPS22
Working medium	32#or 34#anti-wear hydraulic oil
Fuel tank volume (L)	320
Max.flow rate (L/min)	120
Max.operating pressure (bar)	315
Motor power (KW)	22
Motor frequency (HZ)	50
Motor voltage (V)	380
Motor working speed (rpm)	1460
Working weight(full tank) (kg)	850
Wireless control distance (m)	200



Installation steps of the hydraulic pile breaker and the power pack

- Put the power pack and pile breaker hang to the designated spot.
- Use cable to put the external power connected with the power pack, make sure the indicator light without error.
- Use hose to put the pile breaker connected with the power pack and install securely.
- Through the observation mouth to check whether there is enough hydraulic oil in the fuel tank of the power pack.
- Opening motor and operating the cylinder telescopic movements, making the hose and fuel tank full with oil.
- Craning the pile breaker to cut piles.

Safety maintenance of the hydraulic pile breaker and the power pack

- Check the working condition of power pack parts regularly. There is no oil leaking of all connections during construction, otherwise please solve the problem as soon as possible.
- Check whether existing oil leaking of the cylinder and hydraulic parts. If finding oil leaking, please change the joint and oil seal timely or contact with TYSIM's after sales service personnel.

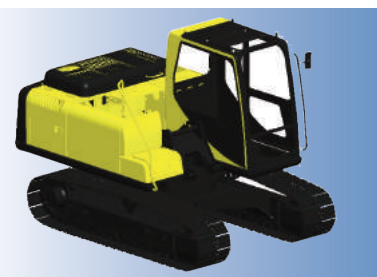
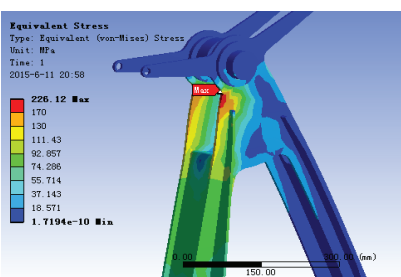
Matches between power pack and hydraulic pile breaker

Power pack Model	Round Pile Breaker Model	Square Pile Breaker Model
KPS22	KP315 III	KP400S KP450S
KPS37	KP380 III	KP500S

TYSIM TEAM



Professional Service, International Quality



- Using international advanced software of 3D design and stress simulation can more visually display the stress distribution area of the product structure, optimize the structure.
- Products have been sold to 15 countries with the global professional services.
- As mature and reliable products, we have won praise from customers all over the world.

TYSIM domestic first-class team

- Experienced technical team
- Good industry perspective
- Ten years experience of R&D rotary drilling rig
- Meticulous professional services
- Professional supplier system
- Professional construction method support





专业桩工品牌联盟

Professional Piling Enterprise Alliance



中国桩工陆英会，简称陆英会，于2016年12月在无锡成立，是由泰信机械、振中机械、盾安重工、格雷安环保、北京达夫、北京振冲六家企业联合发起的以客户信息共享、联合市场推广为宗旨的国内专业桩工公司联盟。

陆英会是为响应中国桩工机械行业协会秘书长黄志明、郭传新等领导“融合共享、抱团发展”的号召和鼓励，集合桩工行业各细分产品的领先企业而成立。首次参加2016上海宝马工程机械展会便取得了良好的效果和行业内的广泛关注。

目前会内企业分别是：小型旋挖钻机的领先品牌泰信机械、全回转钻机的领导品牌盾安重工、三十年振动锤制造商振中机械、领先的振冲器制造商北京振冲、泥浆处理器专业品牌格雷安环保、专业钻具品牌北京达夫、无锡鑫良钻具与阳谷昊泉机械制造。

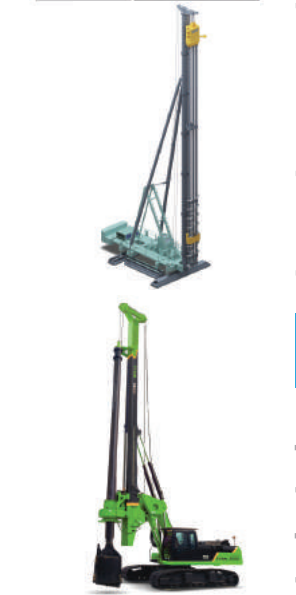
Alliance of Piling Industry Elites of China (APIE for short) was founded in Wuxi in December 2016. PIEU was jointly initiated by six enterprises of Tysim Piling Equipment Company,Limited. Wenzhou Zhenzhong Foundation Construction Machinery Technology Co.,Ltd., Xuzhou DunAn Heavy Industry Machinery Manufacture Co., Ltd., Xuzhou Greenan Environmental Equipment Co.,Ltd., Beijing Tuff Equipment And Technology Co., Ltd., and Beijing Vibroflotation Engineering Machinery Limited Company. At present, the APIE is a corporate alliance for professional pile works within China and focuses on customer information sharing and joint marketing.

The APIE was founded through gathering leading enterprises in segmentation products of pile works industry as a result of responding to encouragement and inspiration from “Fusion Shared and Unified Development” put forward by leaders such as Huang Zhiming and Guo Chuanxin etc. of Branch Association of Pile Works under China Construction Machinery Association. The APIE received good effects and wide attention from the industry when it participated in Bauma Shanghai 2016 for Construction Machinery for the first time.

The APIE currently includes the following enterprises: the leading brand of Tysim Piling Equipment specialized in small rotary drilling rigs, the leading brand of DunAn Heavy Industry specialized in full-rotating drills, Zhenzhong Foundation Construction Machinery specialized in manufacturing vibratory hammers for 30 years, the leading manufacturer of Beijing Vibroflotation specialized in vibroflotation devices, the professional brand of Greenan Environmental Protection Equipment specialized in mud treaters, the professional brand specialized in drilling rigs, including Beijing Tuff, Wuxi Xinliang , and Yanggu Haoquan Machinery Manufacturing Co., Ltd.

桩工陆英会

Alliance of Piling Industry Elites



盾安重工-全套管全回转钻机 Dunan heavy industry -Casing Rotator				
型号 Type	钻孔直径（mm） Diameter of drill hole	扭矩（kN.m） Rotary torque	回转速度（kpm） Rotary speed	发动机功率（kW/rpm） Engine Power
DTR1605H	Ø800~ Ø1600	1525/906/512瞬时1744	1.3/2.2/3.9	201/2000
DTR2106H	Ø1000~ Ø2100	3085/1823/1030瞬时3505	0.9/1.5/2.7	272/1800
DTR2605H	Ø1200~ Ø2600	5292/3127/1766瞬时6174	0.6/1.0/1.8	410/1800

北京达夫-嵌岩捞砂斗 BJTUFF-Rock Drilling Bucket				
切削直径（mm） Cutting Dia	筒体高度（mm） Shell HIT	筒体壁厚（mm） Shell THK	齿数 Teeth No	重量（kg） Weight
φ800	1200	16	9	950
φ1500	1200	20	16	2250
φ2500	800	20	27	5600

振中机械-JZB240多轴钻孔机 Zhenzhong piling equipment -JZB240 multi-shafts drill rig				
桩架高度（mm） Height of pile frame	立柱导轨中心距（mm） Center distance of mast guide rail	最大拔桩力（kN） Max. Pulling force	平台回转角度（°） Swing angle of platform	桩架总质量（t） Total weight of pile frame
42000	600/φ102	700	±10°	138

泰信机械-全液压式旋挖钻机 Tysim Piling Equipment-Rotary Drilling Rig				
型号 Type	最大输出扭矩（kN.m） Max.torque	最大钻孔直径（mm） Max.drilling diameter	最大钻孔深度（m） Max.drilling depth	主卷扬最大提升力（kN） Main winch pull force
KR90C	90	1000/1200	36/28	90
KR125A	125	1300/1500	43/37	110
KR220C	220	1800/2000	64/51	230

振冲机械-振冲器 BVEM-Vibroflot				
型号 Type	功率（kW） Power	额定电流（A） Rated Current	最大转速 Max rotation speed	振动力（kN） Vibration power
BJV75E-426	75	148	1450	180
BJV180E-426	180	350	1450	276
BJV260E-450	260	500	1450	520

格雷安环保-RMT250D泥浆净化装置 Greenan Environmental-RMT250D Desander				
最大泥浆处理量（m3/h） Max. capacity	装机总功率（kW） Total power	主泵电机功率（kW） Main pump motor power	振动电机功率(单台)（kW） Vibration motor power	设备运输尺寸(L×B×H)(m) Transportation dimension
250	58	55	1.5x2	4.16×2.29×2.52

阳谷昊泉-桩工旋挖截齿 Yanggu Haoquan-Piling rotary cutter bits	
特点	1、合金：超粗颗粒低压烧结硬质合金； 2、耐磨层：超硬耐磨层 HRC:60-65 3、专利设计，加速齿体旋转，延长使用寿命； 4、高强度卡簧，坚固耐用不易脱落； 5、专利号：ZL 2010 2 0196489.1
	1.carbide :coarse particle low pressure cemented carbide; 2.wearing layer:Superhard wear layer; 3.Patented Design,Accelerate tooth rotation,increase of service life; 4.High strength clamp spring,Strong and durable, not easy to fall off; 5.patent number:ZL 2010 2 0196489.1.

鑫良-旋挖钻头，截齿，护筒及全套管 Xinliang-Rotary drill bit, pick, casing and full casing	
特点	1、采用高强度管线钢，耐磨钢及其他特种材料； 2、钢材屈服强度在500-1200之间，抗扭能力强； 3、95%数控下料，精度高； 4、可以根据不同地层设计钻具，从而提高施工效率。
	1.High-strength pipeline steel, wear-resistant steel and other special materials are used; 2.The yield strength of the steel is between 500-1200, and the torsion resistance is strong; 3.CNC makes 95% processing, achieving high precision; 4.Drilling tools can be designed according to different strata to improve construction efficiency.



施工案例



Construction cases



Dun An
盾安重工

徐州盾安重工机械制造有限公司
Xuzhou Dunan Heavy Industry Machinery Manufacture Co.,Ltd



江苏泰信机械科技有限公司
Tysim Pilling Equipment Company,Limited



浙江振中工程机械有限公司
Zhejiang Zhenzhong Construction Machinery Co.,Ltd



徐州格雷安环保设备有限公司
Xuzhou Greenan Environmental Equipment Co.,Ltd



北京振冲工程机械有限公司
Beijing Vibroflotation Engineering Machinery Limited Company



北京达夫装备技术有限公司
Beijing Tuff Equipment And Technology Co.,Ltd



无锡市鑫良机械设备制造有限公司
Wuxishi Xinliang Machinery Manufacturing Co.,Ltd



阳谷昊泉机械有限公司
Yanggu Haoquan Rock Tools Co.,Ltd

