

创始于1985
Since



液压振动锤

Hydraulic Vibro Hammer

2024目录
Catalogue



温州永安重工科技有限公司

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开创液压振动锤新理念

**With superior quality and touched by the customer service
Create a new concept of Hydraulic Vibro Pile Hammer**

永安机械创建于1985年，致力于液压振动锤，液压冲击锤，电动振动锤，挖机式液压振动锤、翻桩器等桩工系列产品的设计、研发、生产及租赁服务。三十多年来在广大客户的关心支持下，在全球业内知名度和影响力大幅提升，目前已发展成国内振动锤骨干龙头企业。

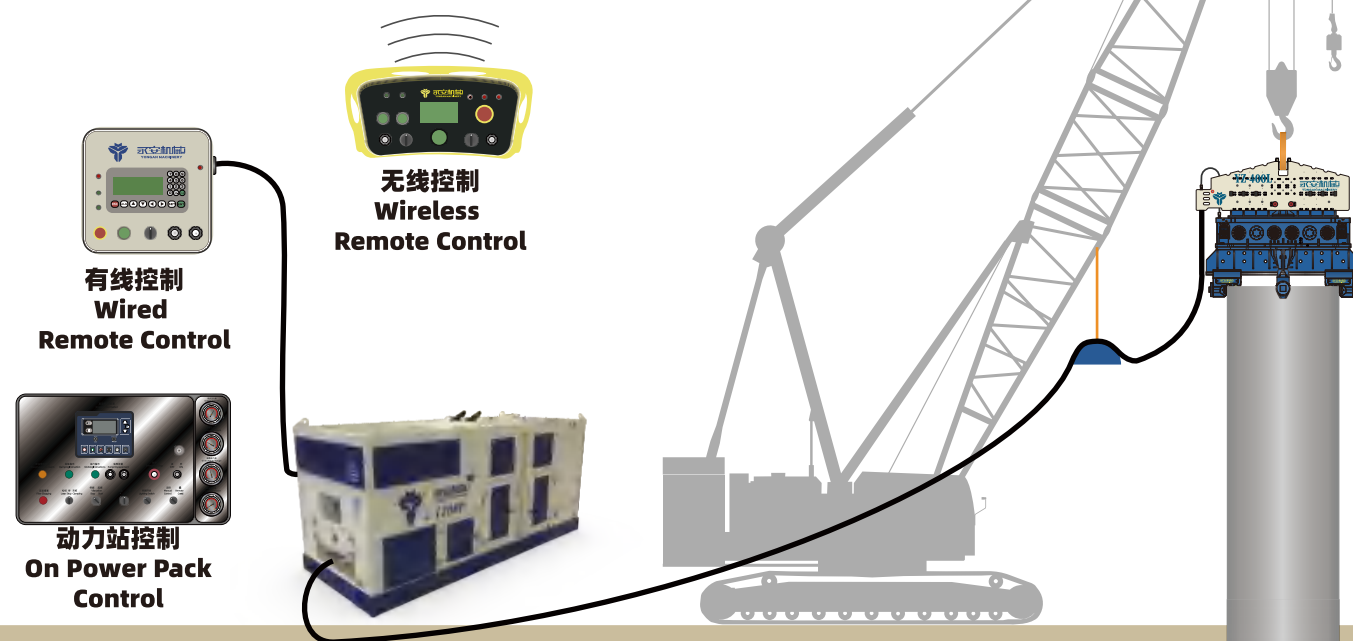
永安打桩锤广泛应用于码头、桥梁、栈桥、水运工程项目中施工，也可用于海上风电、房建桩基础打桩。永安振动打桩锤打桩效率高，操作简单，故障率低，同时还提供专业的售后服务。其中液压振动锤由YZ-90D到YZ-1600有30多款产品；液压冲击锤由YC-3到YC-280有30多款产品；电动振动锤由DZ-45到DZJ-600有20多款产品，翻桩器FZQ-100、FZQ-100i到FZQ-1200、FZQ-1200i有20多款产品。

永安机械是国内最早设计制造振动桩锤的企业之一，为桩工领域细分龙头骨干企业，公司制造的零启动调频调矩液压振动锤、YZ-400B液压振动锤和围海造岛用重大工程装备重型液压振动桩锤12联动基组分别荣获2018年、2020年和2023年浙江省首台套荣誉称号。

强大的技术实力使企业在产品研发上不断推陈出新，2020年生产的YZ-800B为目前国内单机最大液压振动锤，并成功应用于中广核汕尾后湖海上风电场项目。公司研发的液压打桩锤也为国内领先技术，公司研发的YC-230打击能量在3900KJ也成功应用于福建平潭长江澳海上风电场项目中，逐渐打破国外巨头的垄断。目前公司正在研发YC-280，该锤打击能量为5040KJ，届时将在行业舞台大展身手，为该领域填补空白。

“永安”牌振动打桩锤各系列产品的足迹已遍布全国各地，在国内300多座大型桥梁，如：杭州湾跨海大桥、港珠澳跨海大桥，厦门集美跨海大桥，南京大胜关长江大桥，钱江九桥，福建平潭公铁两用大桥、内蒙古包头黄河大桥、深中跨海通道、甌江北口大桥、马鞍山公铁两用长江大桥等被大量广泛应用。同时远销日本、韩国、台湾、埃及、马来西亚、厄瓜多尔、俄罗斯、菲律宾、利比里亚、印尼、赤道几内亚、加纳、越南、澳大利亚、巴西、伊拉克、尼日利亚、伊朗等80多个国家和地区。

永安机械不断致力于产品的技术创新和新产品的研发。近年来，我公司陆续通过了ISO9001、ISO14001、ISO45001、欧盟CE认证。同时我们获得了浙江省科技型中小企业、高新技术企业等诸项荣誉，专利数达100多项，并起草了《液压打桩锤》中国行业标准。未来公司将进一步掌握产品核心技术，改善产品工艺，永安机械向着世界一流的桩工品牌看齐，努力把中国制造的旗帜插遍世界。



Yongan Machinery was founded in 1985 and is dedicated to the design, development, production and leasing services of hydraulic vibratory hammers, hydraulic impact hammers, electric vibratory hammers, excavator vibro hammers, pile lifting tools and other pile-building products. Over the past 30 years, with the care and support of our customers, our reputation and influence in the global industry have been greatly improved, and we have now developed into a leading Chinese enterprise of vibro hammer.

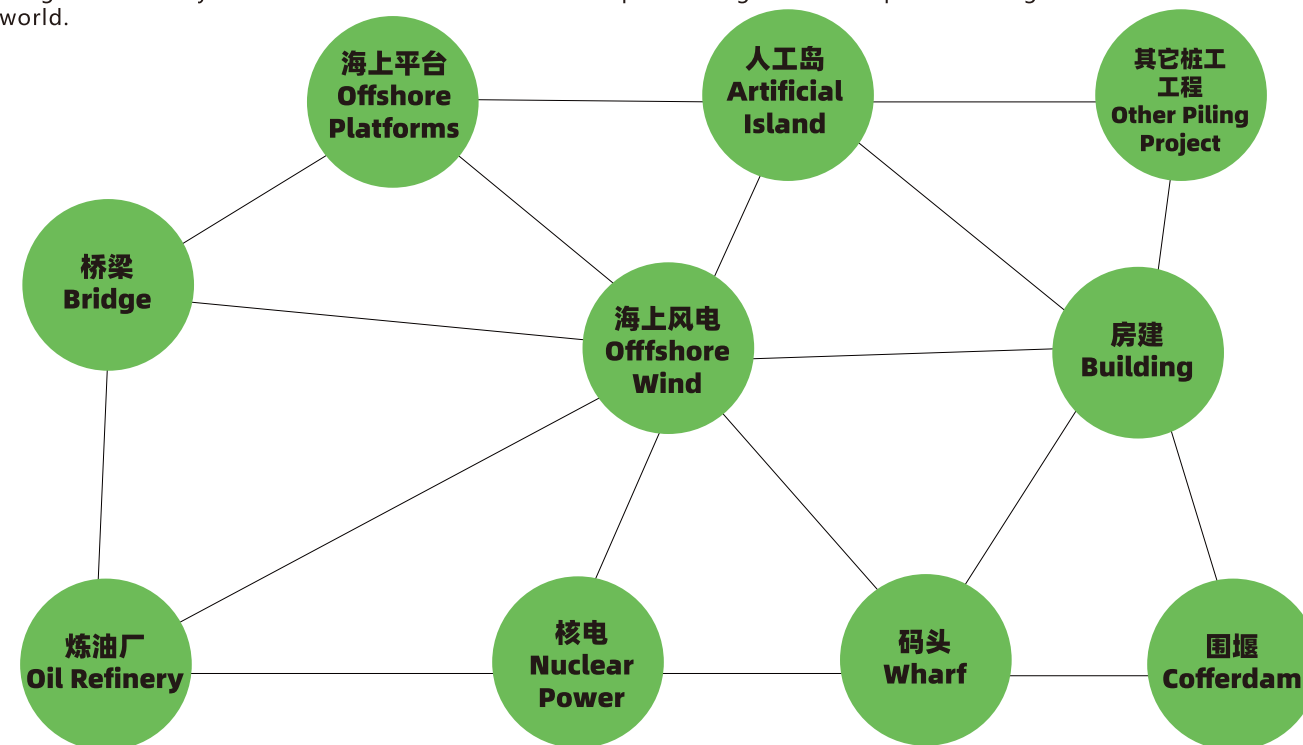
Yongan piling hammers are widely used in the construction of docks, bridges, piers, and water transport projects, and can also be used for offshore wind power and building pile foundation piling. Yongan vibro hammers have high piling efficiency, simple operation, and low failure rate, and also provide professional after-sales service. Among them, there are more than 30 hydraulic vibratory hammers from YZ-90D to YZ-1600; more than 30 hydraulic impact hammers from YC-3 to YC-280; more than 20 electric vibratory hammers from DZ-45 to DZJ-600, and more than 20 pile lifting tools from FZQ-100 to FZQ-1200 and FZQ-100i to FZQ-1200i.

Furthermore, we are one of the earliest companies in China to design and manufacture vibro hammers, and is a leading backbone enterprise in the field of pile engineering. The zero-start frequency-modulation and torque-modulation hydraulic vibratory hammer, YZ-400B hydraulic vibratory hammer, and the heavy-duty hydraulic vibratory hammer 12-linkage base group manufactured by the company won the honorary title of Zhejiang Province's first set in 2018, 2020, and 2023 respectively.

Strong technical strength enables the company to continuously innovate in product research and development. The YZ-800B produced in 2020 is currently the largest single-machine hydraulic vibratory hammer in China, and has been successfully used in the CGN Shanwei Houhu Offshore Wind Farm Project. The hydraulic pile hammer developed by the company is also a leading technology in China. The YC-230 developed by the company with a striking energy of 3900KJ has also been successfully used in the Changjiangao Offshore Wind Farm Project in Pingtan, Fujian, gradually breaking the monopoly of foreign giants. The company is currently developing the YC-280, which has a striking energy of 5040KJ. By then, it will show its prowess on the industry stage and fill the gap in this field.

"Yongan" brand vibratory pile hammers have been used all over the country and are widely used in more than 300 large bridges in China, such as Hangzhou Bay Bridge, Hong Kong-Zhuhai-Macao Bridge, Xiamen Jimei Bridge, Nanjing Dashengguan Yangtze River Bridge, Qianjiang No. 9 Bridge, Fujian Pingtan Railway Bridge, Inner Mongolia Baotou Yellow River Bridge, Shenzhen-Zhongshan Cross-sea Channel, Oujiang North Mouth Bridge, Ma'anshan Railway Bridge, etc. At the same time, they are exported to more than 80 countries and regions including Japan, South Korea, Taiwan, Egypt, Malaysia, Ecuador, Russia, Philippines, Liberia, Indonesia, Equatorial Guinea, Ghana, Vietnam, Australia, Brazil, Iraq, Nigeria, Iran, etc.

Yongan Machinery is constantly committed to product technology innovation and new product development. In recent years, our company has successively passed ISO9001, ISO14001, ISO45001, and EU CE certification. At the same time, we have won many honors such as Zhejiang Province's science and technology-based small and medium-sized enterprises and high-tech enterprises, and have more than 100 patents. We have also drafted the Chinese industry standard for "Hydraulic Piling Hammer". In the future, the company will further master the core technology of products, improve product technology, and Yongan Machinery will strive to become a world-class pile driving brand and plant the flag of "Made in China" all over the world.





中国液压振动锤领军企业

Leading enterprise of hydraulic vibratory hammer in China

永安机械是液压振动锤的领军者

以高品质的产品品质和服务满足客户，开创液压振动锤施工的新理念

Satisfy customers with high-quality products and services, and create a new concept of hydraulic vibratory hammer construction

工作原理 Working Principle

首先，由液压动力站提供动力，通过高压液压软管输送到桩锤，使液压马达高速转动，然后带动偏心块也高速运转产生出能使桩也高速振动的激振力，这个激振力能使桩壁周围的土质“液化”，大幅度降低地质对桩壁的摩擦力。使桩在重力的作用下自由下落到标高，完成打桩过程。

First, it is powered by a hydraulic power pack, which is delivered to the vibro hammer through a high-pressure hydraulic hose to make the hydraulic motor rotate at a high speed, and then drive the eccentric block rotating. The high-speed operation also produces an centrifugal force that can make the pile vibrated at a high speed. This centrifugal force can "liquefy" the soil around the pile wall and greatly reduce it. The friction of geology on the pile wall. Make the pile fall into the soild under the force of pile and vibratory hammer gravity.

卓越性能 致力于做到更好

Product Performance

We are always working on better products

永安液压振动锤动力站的标准配置采用卡特发动机，配上德国力士乐液压泵，操作人机界面简单易懂。使得动力站表现出良好的整体性能。同时我们也有采用变频电机作为动力的液压动力站如富士电机，无噪音，绿色环保，使用和保养成本更低。

The standard configuration of Yongan Hydraulic Vibratory Hammer Power Pack adopts Caterpillar engine and German Rexroth hydraulic pump. The operation man-machine interface is simple and easy to understand. Make the power pack show good overall performance. At the same time, we also have hydraulic power stations powered by variable frequency motors, such as Fuji Motor, which are noise-free, green and environmentally friendly, and have lower use and maintenance costs.

效率 Efficiency

由于液压振动锤的设计原理，使得振动锤的偏心块高速振动，液压夹具的高夹力使振动锤和桩形成一体高速上下振动，达到高速沉桩的目的。

Due to the design principle of the hydraulic vibratory hammer, the eccentric block of the vibratory hammer vibrates at a high speed, and then the high clamping force of the hydraulic clamp makes the vibratory hammer and the pile vibrate at a high speed to achieve the purpose of high-speed pile driving.

性能 Performance

永安液压振动锤对关键的部件进行特殊的设计和生 产，在世界平均的打桩性能的基础上提供额外的打桩和拔桩的性能。

Yongan Hydraulic Vibratory Hammer carries out special design and production of key components, and provides additional piling and pulling performance on the basis of the world's average piling performance.

轻巧 Lightweight

由于液压振动锤的动力是来自动力站，使得液压振动锤锤身非常轻盈，例如 YZ-180B 采用嵌入式的液压马达，使用侧面的宽度只有 530mm，自身重量只有 5900kg，能轻易地在狭窄的空间工作，产生出最大 2340kN 的激振力。Because the power source of the hydraulic vibratory hammer comes from the power, the hydraulic vibratory hammer body is very light. For example, the YZ-180B uses an embedded hydraulic motor. The width of the side is only 530mm, and its own weight is only 5900kg. It can easily be in a narrow space. Work to produce a maximum excitation force of 2340kN.

环保 Environmental

相比较于柴油锤，永安液压振动锤是一种环保型的桩工机械。它产生的激振力对液压夹直接作用于桩，噪音很小不扰民。另外永安的液压动力站上的吸音装置和设计能够吸收来自发动机产生的 75% 以上的噪音。动力站采用符合国标排放环保要求的发动机，如卡特，康明斯和沃尔沃。

Compared with diesel hammers, Yongan hydraulic vibratory hammers are environmentally friendly pile-working machinery. The exciting force generated by it directly acts on the pile through the hydraulic clamp, and the noise is small and does not disturb the people. In addition, the sound-absorbing device and design on Yongan's hydraulic power pack can effectively absorb more than 75% of the engine noise. The power pack adopts engines that meet the national emission and environmental protection requirements, such as Carter, Cummins and Volvo.

稳定 Stabilization

大容量冷却系统确保了液压系统能够高效稳定地工作，即使振动锤重复工作也不会出现严重过热。同时液压振动锤齿轮箱采用飞溅式和强制式的润滑方式，不但能充分润滑各个部件同时还能带走部件高速运转所产生的热量。

The large capacity cooling system ensures that the hydraulic system can work efficiently and stably, even if the vibratory hammer works continuously for a long time, there will be no serious overheating. At the same time, the hydraulic vibratory hammer gearbox adopts splash and forced lubrication design, which can not only fully lubricate the various components, but also take away the heat generated by the high-speed operation of the components.

耐用 Durable

永安液压振动锤按照长寿命，故障最小化设计制造。电气和液压系统及油管电缆联轴器等相关附件均采用精准设计加工，以确保系统高可靠性。对于打桩设计中的易损件，我们只选用高品质的，从而降低客户的使用成本。

Yongan hydraulic vibratory hammers are designed and manufactured for long life service with minimal downtime. Precise workmanship is adopted to electric and hydraulic system including hoses, cables, couplings and other related parts, thus the whole system is reliable.

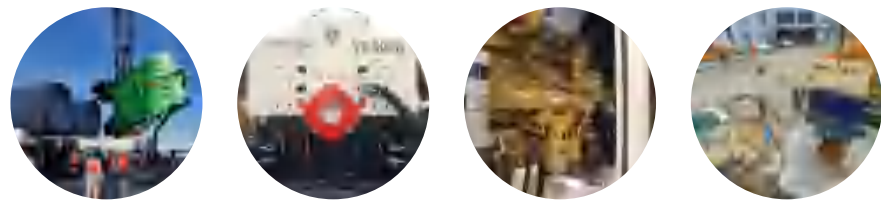
All Yongan pile driver equipment choose only qualified consumable parts to assure the long life time of the parts. Thus customers can save the cost from consumable parts.



产品结构， 我们专注于品质

Product structure,
We are focusing on quality

将我们的产品解剖,用以展示产品每个细节所呈现的功能,
只为您全方位了解我们的产品,深化其中的细节。更好的将维护及使用我们的产品。
We dissected our products to show the functions of every detail of the product,
and to understand the products and deepen the details for you. Better to maintain
and use our products.



双行程橡胶减振 Double stage rubber suppressor design

采用双行程橡胶进行减振的设计不仅能
够维持打桩时的性能,还能产生额外的拔
桩力从而提高拔桩性能。
The design of using double-stroke
Elastomer for vibration reduction
can not only maintain the
performance during pile driving,
but also generate additional pile
pulling force to improve the pile
pulling performance.

力士乐液压系统 Rexroth hydraulic system

永安机械的液压系统由行业内顶尖品牌-力士乐
设计,其液压泵和液压马达也均来自力士乐。我们
相信先进的设计和高质量的零部件可以确保振动
锤的长期的使用寿命和高效的性能。
Yongan Machinery's hydraulic system is
designed by Rexroth, a top brand in this
industry, and its hydraulic pumps and
hydraulic motors are also from Rexroth. We
believe that advanced design and high-
quality components can ensure the long
operating life and efficient performance of
the vibratory hammer.

海工防腐技术喷涂 Offshore anti-corrosion technology spray

采用美国纳米防腐技术, 5种以上表面处理工
艺, 使得在海上严苛环境下运行优良。
Using USA nano anticorrosion technology,
more than 5 surface treatment processes,
make Yongan products working well
under harsh conditions on offshore.

德国FAG高速轴承 German FAG high speed bearing

对于液压振动锤来说, 要论承受最严苛工况环境的
部件当然要数偏心块轴的承载轴承。偏心块的高速
转动所产生的激振力全部通过这些轴承传递到桩上
, 为此永安机械采用德国SCHAEFFLER公司的FAG
品牌轴承作为我们的偏心块轴的轴承, 使用寿命超
过5倍普通的轴承。
For hydraulic vibratory hammer, the
components that can withstand the harshest
working conditions are the eccentric block
shaft bearings. The centrifugal force
generated by the high-speed rotation of the
eccentric block is all transmitted to the piles
through these bearings. For this reason, we
adopts the FAG brand bearing from German
SCHAEFFLER as our eccentric block shaft
bearings. The service life is more than 5 times
that of ordinary bearings.

双重强制润滑冷却系统 Double Forced Lubrication Cooling System design

采用强制式以及飞溅式的双重润滑和冷却, 使得液
压振动锤内部的各个机械部件能充分地润滑以及
能快速地带起一部分热量。同时液压振动锤齿轮箱
的润滑油容积进一步加大, 大大减缓机器的升温,
避免在打桩过程中因升温太高而宕机的情况发生。
The forced and splash-type dual lubrication
and cooling design make the internal
mechanical parts more fully lubricated and
the heat from gear box can be quickly taken
out with forced lubricating oil flow. Also the
gearbox lubricating oil volume is further
increased, which greatly slows the
temperature rise, avoiding incrases due to
excessive heating during piling.

重金属填充加重偏心块 Heavy metal filled eccentric block

永安机械的液压振动锤偏心块里填充有“重金属
”, 振动锤齿轮箱里的偏心块在转速不变的情况下
能够产生相较于全铁的偏心块更多的偏心力矩, 为
您的打桩工程提供额外的打桩力度和速度。
The eccentric block from Yongan Machinery
hydraulic vibratory hammer is filled with
"heavy metal". The eccentric block in the
gearbox of the vibratory hammer can produce
more eccentric amplitude than the all-iron
eccentric block under the condition that the
speed of the eccentric block in the gear box of
the vibrating hammer is unchanged. Your
piling project provides additional piling
strength and speed.

高强度负重载吊环 High strength heavy load lifting ring

二级减振胶系统设计更好地保护吊机等起重
设备, 同时在拔桩时提供额外的拔桩力。
Doub stage vibration rubber desing in
suppressor house protect crane boom better,
and also increases pile line pull force.

自带翻桩功能, 实现翻桩、打桩
一体化作业, 提高施工效率。
With pile turning function,
pile turning and piling can be
realized Integrated operation to
improve construction efficiency.

采用德国FAG高速重载轴承, 大大提高了
振动锤的使用寿命。偏心块添加了重型
金属后, 可产生出更大的打桩能量。
German FAG heavy loading bearing
ensure a longer life of the vibratory
pile driving hammer.Eccentric blocks
have been filled with HEAVY METAL,
generate extra piling force.

液压马达采用嵌入式或者外加保护壳的方式
有效减少在作业过程中因碰撞损坏液压马达
的情况, 大大提高振动锤的可靠性。
The hydraulic motors have been
embedded or external protective
shell reducing the damage chance
of the motors due to collision
during the operation, and greatly
improve the reliability of the
vibro pile hammer.

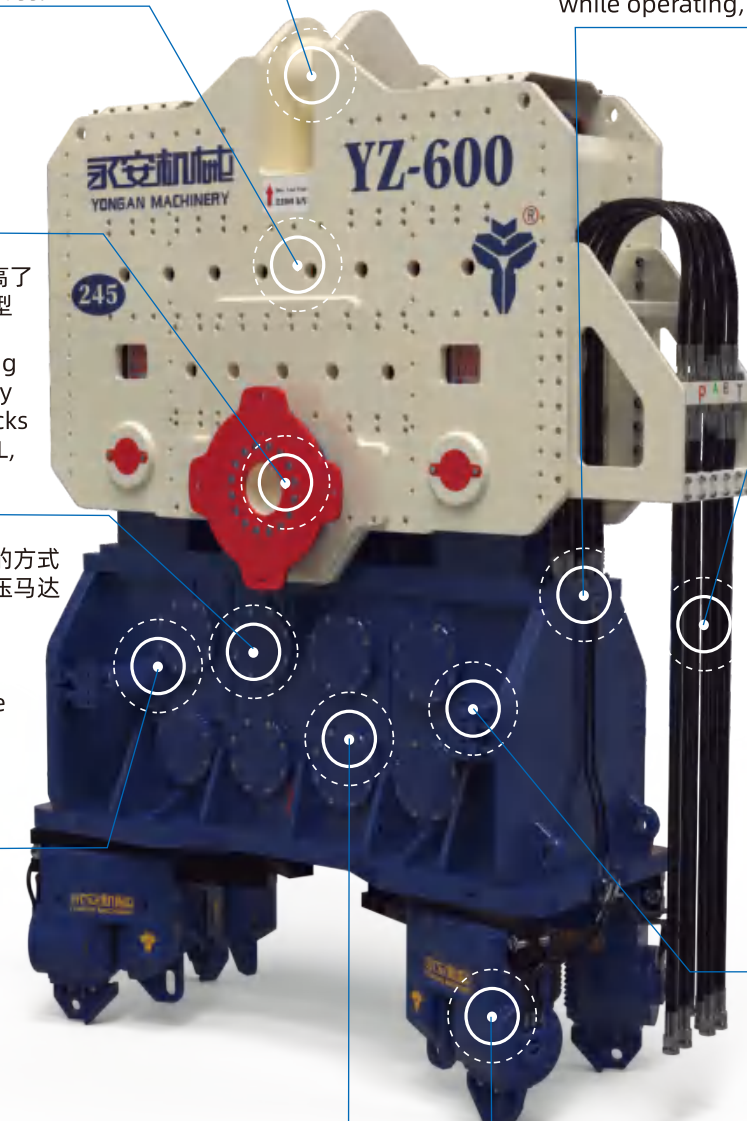
采用强制式及飞溅式双重润滑系统,
让振动锤工作的时候更充分地润滑。
同时因润滑油的容积增加, 减缓振动锤身的升温情况。
Double lubrication system design (Foced Lubrication and
Splashing Lubrication)make vibro hammer run more smooth
meanwhile reduce the liquid temperature with such a bigger
oil container.

液压油管集成于顶板, 减少75%以上的
软管裸露在外, 避免作业时油管损坏,
大大减少故障率。
Hydraulic oil rout go through top steel plate
bore design, to avoid more than 75% hoses
exposing in the ouside, and avoid damaging
while operating, thereby reduce failure rate.

油管使用进口伊顿或马努力,
油管分配模块使得油管有序
排列, 不易损坏。
Using Eaton or Manuli
hydraulic hose, distribution
manifold makes good
arrangement of the hoses

永安的液压系统采用世界液压
行业最顶级的品牌, 力士乐。
Yongan's hydraulic system
adopts the world top brand
in the hydraulic industry
Rexroth.

液压夹具由高强度合金钢铸成型, 再由高精度
CNC数控机床精密加工而成。内置液压锁紧油缸,
结构坚固, 体积轻盈。
The hydraulic vibro clamp is casted of
enhanced soild alloy steel material, and
High-precision CNC precision machined.insert
with locking cylinder to eliminated troublesome.



我们提供
更多型号的振动锤
总有一款适合您的工程需要

We offer More models for your choose, there is always a model suitable for your project.



YZ-90D



YZ-110D



YZ-150B



YZ-180B



YZ-230F



YZ-230B



YZ-280L



YZ-300



YZ-300L



YZ-300F



YZ-360B



YZ-400

型号 Models	YZ-90D	YZ-110D	YZ-150B	YZ-180B	YZ-230F	YZ-230B
振动锤 技术参数 Vibro Pile Driver & Extractor Technical Parameter	偏心力矩 (kg.m) Eccentric Moment	26	32	46	51	76
	最大转速 (rpm) Max. Frequency	1800	1800	1700	1800	2500
	激振力 (kN) Exciting force	920	1140	1465	1810	2300
	最大拔桩力 (kN) Max. Line Pull Force	400	600	600	600	800
	最大振幅 (mm) Max. Amplitude	32	33	25	32	20
	最大流量 (L/min) Max. Oil Flow	350	480	620	680	800
尺寸,重量 (不含夹具) Size & Weight W/O Clamp	长 Length 宽 Width (mm) 高 High	1800 500 1760	1950 600 2100	3050 430 1940	2845 530 1880	2600 785 2410
	重量 Weight (kg)	3100	4000	5600	5900	6700
		8180				
推荐夹具	管桩夹具 Pipe pile clamp	YZJ-80DCX2	YZJ-80DCX2	YZJ-120DCX2	YZJ-120DCX2	YZJ-160DCX2
	钢板桩夹具 Steel sheet pile clamp	YZJ-120	YZJ-120	YZJ-160	YZJ-200	YZJ-320
推荐动力站	Suggest Power Pack	400P	500P	600P	600P	800P

型号 Models	YZ-280L	YZ-300	YZ-300F	YZ-300L	YZ-360B	YZ-400
振动锤 技术参数 Vibro Pile Driver & Extractor Technical Parameter	偏心力矩 (kg.m) Eccentric Moment	92	137	52	150	226
	最大转速 (rpm) Max. Frequency	1700	1410	2300	1400	1800
	激振力 (kN) Exciting force	2920	3000	3020	3230	4185
	最大拔桩力 (kN) Max. Line Pull Force	800	2000	800	1600	1000
	最大振幅 (mm) Max. Amplitude	30	37	16	30	29
	最大流量 (L/min) Max. Oil Flow	890	1015	1200	1220	1200
尺寸,重量 (不含夹具) Size & Weight W/O Clamp	长 Length 宽 Width (mm) 高 High	3855 705 2035	2650 1150 4300	3855 705 2035	3460 850 2480	3150 650 2430
	重量 Weight (kg)	9600	16000	9600	14800	10300
		18500				
推荐夹具	管桩夹具 Pipe pile clamp	YZJ-160DCX2	YZJ-160DCX2	YZJ-200DCX2	YZJ-160DCX2	YZJ-200DCX2
	钢板桩夹具 Steel sheet pile clamp	YZJ-320	YZJ-320	YZJ-320	YZJ-320	YZJ-320
推荐动力站	Suggest Power Pack	800P	1200P	1200P	1200P	1200P

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YZ-400L



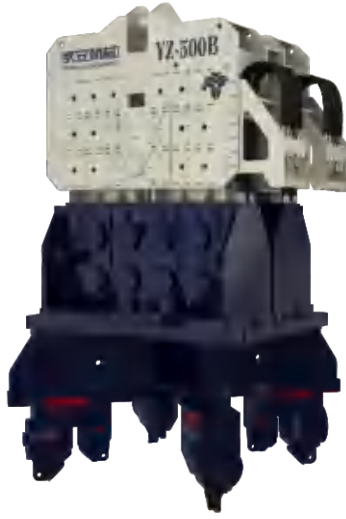
YZ-500B



YZ-600



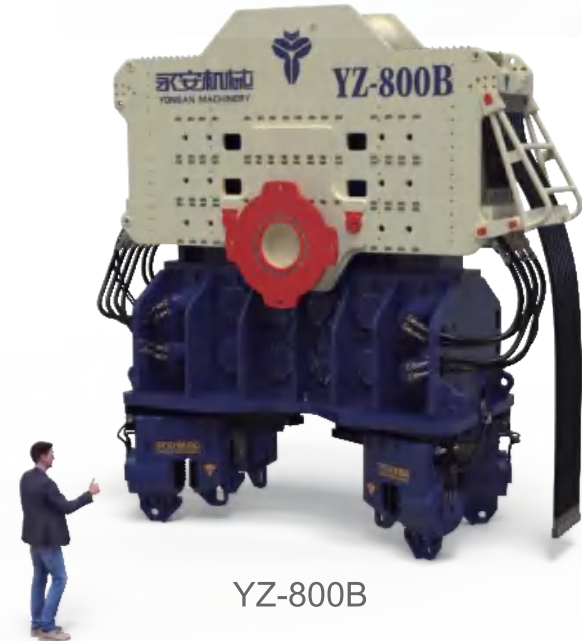
YZ-400X2



YZ-500BX2



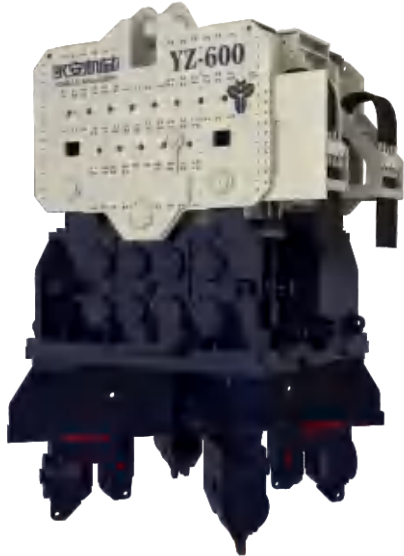
YZ-400LX2



YZ-800B



YZ-1600



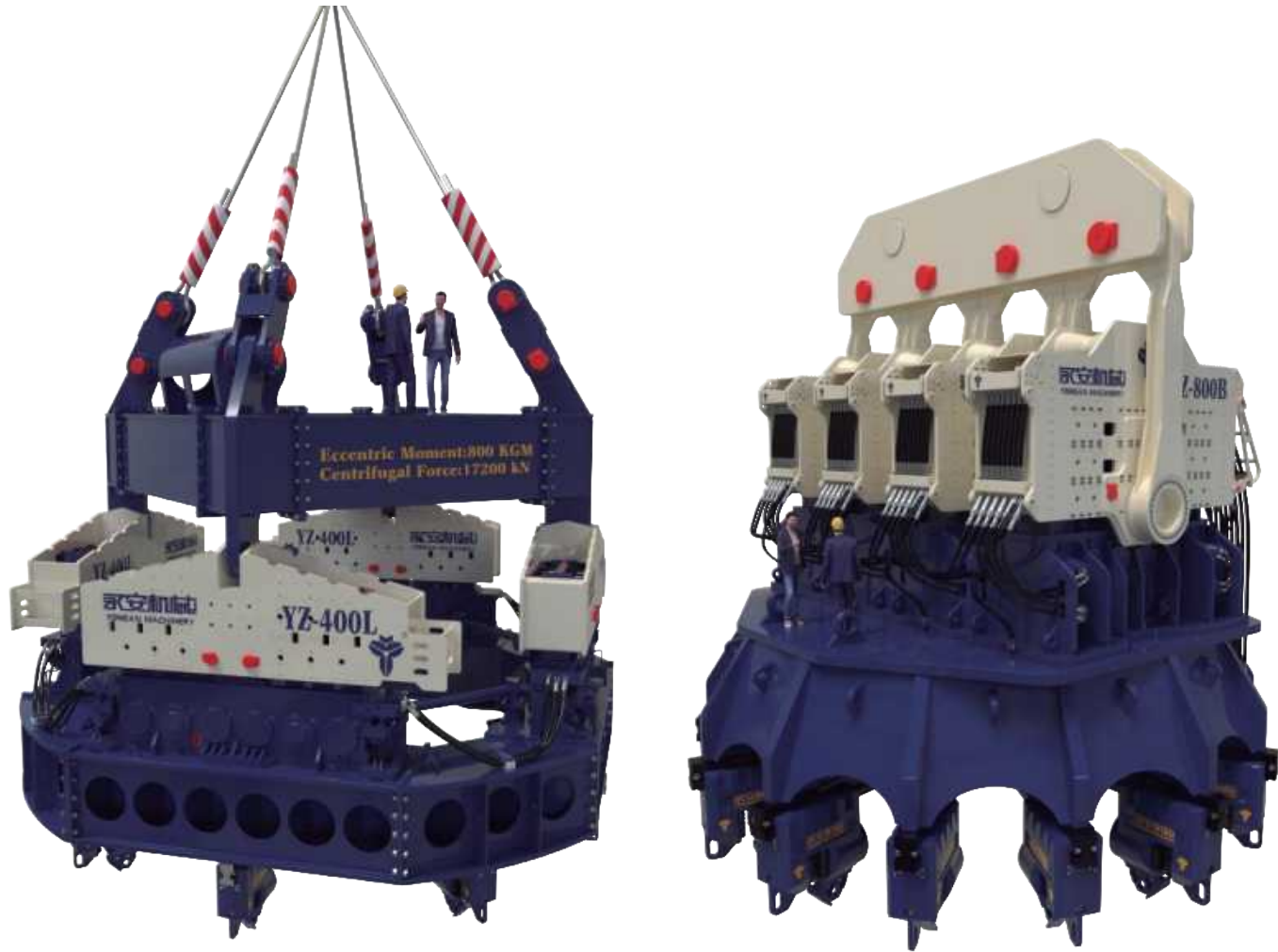
YZ-600X2



YZ-800BX2

型号 Models		YZ-400L	YZ-500B	Y2-600	YZ-800B	YZ-1600
振动锤 技术参数 Vibro Pile Driver & Extractor Technical Parameter	偏心力距 (kg.m) Eccentric Moment	200	250	300	550	1000
	最大转速 (rpm) Max. Frequency	1400	1400	1400	1350	1200
	激振力 (kN) Exciting force	4300	5370	6450	11000	15790
	最大拔桩力 (kN) Max. Line Pull Force	2500	2500/3200	3500/4000	6000	9600
	最大振幅 (mm) Max. Amplitude	37	33	30	35	28
尺寸,重量 (不含夹具) Size & Weight W/O Clamp	最大流量 (L/min) Max. Oil Flow	1220	1600	2440	3000	6070
	长 Length 宽 Width (mm) 高 High	4600 940 2650	3590 1280 4180	3400 1300 4200	5400 2000 4510	7830 1980 7420
	重量 Weight (kg)	21000	24800/30000	35600/41000	66300	135000
推荐夹具 Pipe pile clamp		YZJ-200DCX2	YZJ-160DCX4	YZJ-200DCX4	YZJ-320DCX4	YZJ-320DCX6
推荐动力站 Suggest Power Pack		1200P	1600P	2600P	3500P	3000PX2

型号 Models		YZ-400LX2	YZ-400X2	YZ-500BX2	YZ-600X2	YZ-800BX2
振动锤 技术参数 Vibro Pile Driver & Extractor Technical Parameter	偏心力距 (kg.m) Eccentric Moment	400	452	500	600	1100
	最大转速 (rpm) Max. Frequency	1400	1300	1400	1400	1350
	激振力 (kN) Exciting force	8600	8370	10740	12900	22000
	最大拔桩力 (kN) Max. Line Pull Force	4800	5000	6400	8000	12000
	最大振幅 (mm) Max. Amplitude	37	40	33	30	35
尺寸,重量 (不含夹具) Size & Weight W/O Clamp	最大流量 (L/min) Max. Oil Flow	2440	2600	3200	4880	6000
	长 Length 宽 Width (mm) 高 High	4600 3300 4380	3460 3100 4470	3820 3280 6040	3800 3800 6450	7100 5400 7140
	重量 Weight (kg)	63060	59060	79520	110120	268800
推荐夹具 Pipe pile clamp		YZJ-200DCX4	YZJ-200DCX4	YZJ-320DCX4	YZJ-320DCX4	YZJ-320DCX8
推荐动力站 Suggest Power Pack		1200PX2	1200PX2	1600PX2	2600PX2	3500PX2



超大型联动振动锤
跨海大桥人工岛桩工解决方案
Super large tandem vibro hammer
Piling engineering solution
for artificial island of cross-sea bridge project

型号 Models	YZ-400LX4		YZ-400LX12	YZ-800BX4
振动锤 技术参数 Vibro Pile Driver & Extractor Technical Parameter	偏心力距 (kg.m) Eccentric Moment	800	2400	2200
	最大转速 (rpm) Max. Frequency	1400	1400	1350
	激振力 (kN) Exciting force	17200	51600	44000
	最大拔桩力 (kN) Max. Line Pull Force	10000	28800	24000
	最大振幅 (mm) Max. Amplitude	11	10.8	35
尺寸,重量 (不含夹具) Size & Weight With Clamp	最大流量 (L/min) Max. Oil Flow	4880	14640	13500
	长 Length 宽 Width (mm) 高 High	9500 9500 7160	24100 24100 7510	8600 8600 10050
	重量 Weight (kg)	218980	728000	470000
推荐夹具	管桩夹具 Pipe pile clamp	YZJ-200DCX8	YZJ-DC160X36	YZJ-320DCX16
推荐动力站	Suggest Power Pack	1200PX4	1200PX12	3500PX4

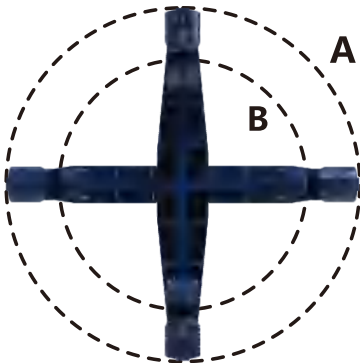
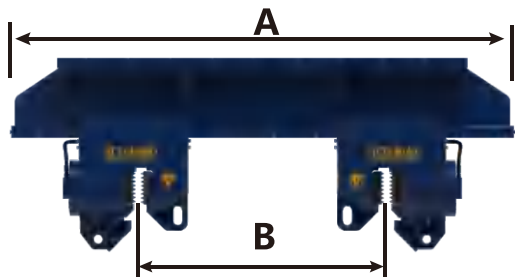
Hydraulic Clamps For YZ Series

确保每一个细节的精度
Ensure the precision of every single detail



单液压夹具型号 Single Clamp Model	YZJ-120	YZJ-160	YZJ-200	YZJ-320
夹持力 (kN) Clamping Force	1200	1600	2000	3200
重量 (kg) Weight	720	1120	1450	2150
开口 Opening	40	55	50	50
长 Length	870	1080	1160	1220
宽 Width (mm)	360	380	440	480
高 High	790	920	1025	1140

单液压夹具型号 Single Clamp Model	YZJ-80DC	YZJ-120DC	YZJ-160DC	YZJ-200DC	YZJ-320DC
夹持力 (kN) Clamping Force	800	1200	1600	2000	800
重量 (kg) Weight	580	820	1120	1420	2980
开口 Opening	50	55	65	85	95
长 Length	685	735	860	970	1170
宽 Width (mm)	300	362	382	440	550
高 High	650	880	920	960	1230



液压夹具型号 Clamp Model	重量 Weight (kg)	A	B Min.	B Max.
YZJ-80DC	1580	1600	420	1000
	1680	1900	420	1300
	1830	2400	420	1800
	1930	2700	420	2100
YZJ-120DC	2160	1900	470	1200
	2310	2400	470	1700
	2410	2700	470	2000
	2540	3100	470	2400
YZJ-160DC	3350	2400	630	1500
	3540	2700	630	1800
	3740	3100	630	2300
	3760	3400	630	2500
YZJ-200DC	3950	2400	700	1400
	4140	2700	700	1700
	4340	3100	700	2100
	4360	3400	700	3400
X-BEAM-S	6040	3800	700	2800
X-BEAM-M	4520	2000	720	1400
X-BEAM-L	9860	3800	1150	2800
	12160	4500	1150	3500

可调偏心力矩高频免共振 液压振动锤系列

Adjustable eccentric torque high frequency resonance free
Hydraulic vibro hammer series



YZ-100VM YZ-130VM YZ-180VM YZ-250VM

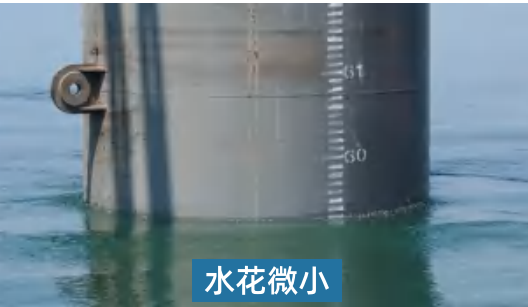
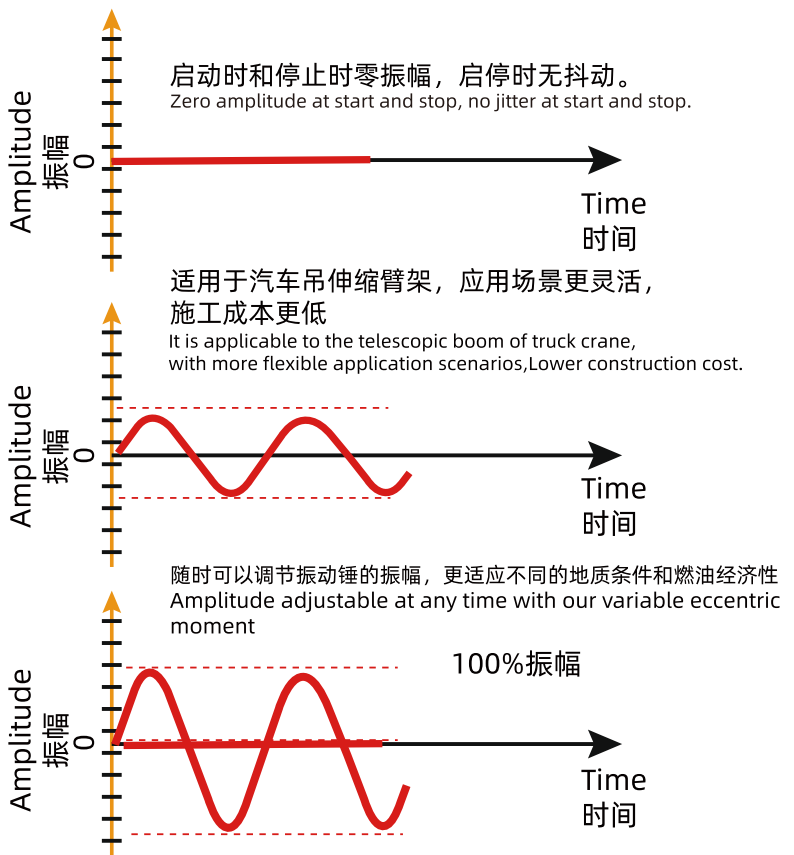


YZ-300VM YZ-360VM YZ-400VM

型号 Models		YZ-100VM	YZ-130VM	YZ-180VM	YZ-250VM	YZ-300VM	YZ-360VM	YZ-400VM
振动锤 技术参数 Vibro Pile Driver & Extractor Technical Parameter	偏心力矩 (kg.m) Eccentric Moment	0-15	0-23	0-35	0-42	0-52	0-62	0-90
	最大转速 (rpm) Max. Frequency	2500	2300	2200	2300	2300	2300	2100
	激振力 (kN) Exciting force	1030	1340	1860	2430	3020	3600	4350
	最大拔桩力 (kN) Max. Line Pull Force	300	500	600	800	800	1000	1000
	最大振幅 (mm) Max. Amplitude	13	15	15	19	18	18.5	21.5
	最大流量 (L/min) Max. Oil Flow	495	620	820	1060	1210	1598	2050
尺寸,重量 (不含夹具) Size & Weight W/O Clamp	长 Length	2100	2240	2300	2910	3050	3100	3100
	宽 Width (mm)	515	550	655	600	620	680	730
	高 High	2250	2230	2350	2300	2300	2380	2670
	重量 Weight (kg)	4500	4880	6300	7600	10800	11500	12800
推荐夹具	管桩夹具 Pipe pile clamp	YZJ-120 YZJ-80DCX2	YZJ-160 YZJ-80DCX2	YZJ-200 YZJ-120DCX2	YZJ-320 YZJ-160DCX2	YZJ-320 YZJ-200DCX2	YZJ-320 YZJ-200DCX2	YZJ-320 YZJ-200DCX2
推荐动力站	Suggest Power Pack	500P	600P	800P	1000P	1200P	1600P	2000P

可变量距振动打桩锤技术 VARIABLE MOMENT TECHNOLOGY

可变量距技术通过两组偏心块的相对位置来调节振动锤的总体偏心力矩进而调节振动幅度
The variable eccentric moment technology adjusts the overall eccentric moment of the vibro hammer through the relative positions of the two sets of eccentric blocks to adjust the vibration amplitude



Power Pack For YZ Series

确保每一个细节的精度

Ensure the precision of every single detail

每个客户都对自己的合作伙伴有着特殊的要求，对每一个项目精益求精，赢取客户的信任，我们要做的第一步就是理解客户的要求。为此，我们不断地倾听客户的要求。根据地勘报告，计算所需打击能量，为客户做选型推荐，为客户选配定制液压桩夹具以及介绍相应的施工工法等等。

永安机械液压动力站配备美国卡特发动机,采用力士乐液压系统,并使用进口伊顿油管连接,其快速接头也是采用意大利DNP原装进口,而动力站选用的德国摩菲控制系统将整个电控系统简单实用。各个细节使得设备在整个工作过程中安全,可靠,耐用和高效。

Each customer has special requirements for their own partners. We need always endeavoring to do every project better and win the trust of customers. The first step we need to do is to understand the requirements of customers. Therefore, we constantly listen to the customer's requirements. According to the geological survey report, calculate the required strike energy, provide the model selection recommendations for the customer's project. select and customize hydraulic pile clamp for the project, and introduce the corresponding construction methods, etc.

Yongan Machinery hydraulic pile driver equipped with CAT diesel engine, Rexroth hydraulic system and is connected by Eaton hose. The quick dis-connector is also take ordinary DNP from Italy. The Murphy control system are selected for power pack makes the whole electric control system simple and practical. All details make the equipment safe, reliable, durable and excellent efficient in the whole working jobsite.



做好每个生产环节

Do well in all production step

技术参数 Main Technical Parameters

动力站型号 Power Pack Models		400 Series	500 Series	600 Series C15	800 Series C18	1000 Series	1200 Series	1600 Series	2600 Series	3000 Series	3500 Series
液压动力站 技术参数 Hydraulic Power Pack Technical Parameter	发动机型号 Engine Type	Cummins QSL8.9-C360	Cummins QSM11-C400 (康明斯)	CAT C15(卡特)	CAT C18(卡特)	Weichai 6M33G915E304	Cummins KTA38-P1200 (康明斯)	Cummins KTA38-C1350 (康明斯)	Cummins KTTA50-C2000 (康明斯)	Cummins KTA50-C2250 (康明斯)	Cummins QSK60-G4
	功率(kw/HP) Power	264/360	298/400	403/540	522/700	670/915	896/1200	1007/1350	1492/2000	1679/2250	1915/2567
	最高转速 Max. Frequency(rpm)	2200	2100	2100	2100	1900	1800	1900	1900	1900	1500
	流量 Oil Flow rate (L/min)	400	500	630	800	1000	1200	1600	2600	3000	3500
	重量 Weight (kg)	6000	6000	9000	9300	10500	20000	20000	30000	30000	30000
	长 Length	3910	3910	4550	4550	5650	6050	6050	7800	7800	8000
	宽 Width (mm)	1520	1520	1820	1850	1920	2350	2350	2360	2360	2760
尺寸、容积、重量 Size & Volumn & Weight	高 High	2100	2100	2400	2520	2550	2820	2820	2750	2750	3000
	柴油箱容积 Diesel Tank Volumn(L)	500	500	600	600	1100	1000	1000	2150	2150	2500
	液压油箱容积 Hydraulic Oil Tank Volumn(L)	1400	1400	2000	2200	2700	4200	4200	5200	5200	7000

Yongan is continuously seeking for development of their products. For this reason, we reserves the right to supply the improved product without advance notice.



经济、稳定
您的最佳选择

ECONOMIC, STABLE
YOUR BEST CHOICE



YZ-300X2



YZ-230



YZ-400X2



YZ-300X2

大连庄河海上风电项目

Dalian Zhuanghe Offshore Wind Power Project

施工情况: 护筒直径2.4m、长50多m、打入海底深度16m

Construction situation: The diameter of the casing is 2.4m, the length is over 50m, and it is driven into the seabed at a depth of 16m

地质情况: 粉砂层

Geological condition: silt layer

YZ-230

广州市南沙区万顷沙镇项目

Wangingsha Town, Nansha District, Guangzhou

施工情况: 护筒直径2.4m、长50多m、打入海底深度16m

Construction situation: The pile diameter is 800mm, the pile length is 38m, the wall thickness is 10mm, and the depth of penetration into the soil is 26m

YZ-400X2

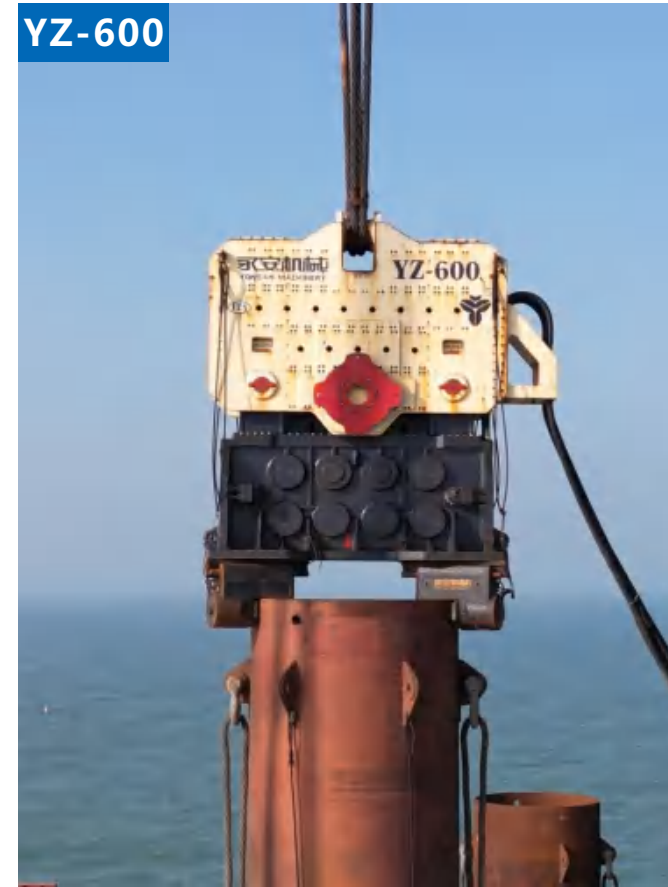
上海打捞局广东阳江海上风电项目

Shanghai Salvage Bureau Guangdong Yangjiang Offshore Wind Power Project

施工情况: 桩直径2米, 入土深度20米左右

Construction situation: The pile diameter is 2 meters and the burial depth is about 20 meters

YZ-600



YZ-600

山东半岛海上风电项目

Offshore wind power in Shandong Peninsula

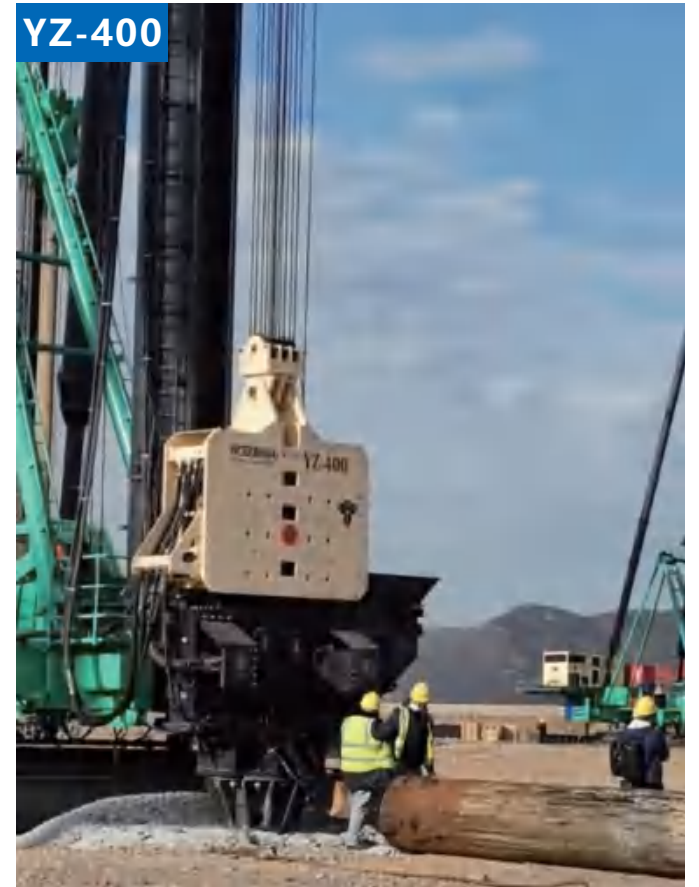
施工情况: 桩长77m, 入土25m, 桩径2.2m, 壁厚60mm

Construction situation: The pile is 77m long, 25m deep into the soil, 2.2m in diameter, and 60mm in wall thickness

入土深度: 20m左右

Depth of penetration: about 20m

YZ-400



YZ-400

舟山小鼠浪屿碎石桩项目

Zhoushan Mouse Langyu Gravel Pile Project

施工情况: 桩长32m, 壁厚25mm, 桩径800、1000mm, 入土25m

Construction situation: pile length of 32m, wall thickness of 25mm, pile diameter of 800mm, 1000mm, and 25m into the soil

地质情况: 砂层, 淤泥层

Geological conditions: sand layer, silt layer

YZ-400LX2

福建平潭大练湾海上风电场项目

Fujian Pingtan Dalianwan offshore wind farm

桩长: 39.8m; 桩径: 3.2m; 入土深度: 10m

Pile length: 39.8m; Pile diameter: 3.2m; Depth of penetration: 10m

地质情况: 泥砂层

Geological conditions: sediment layer

YZ-400LX2



YZ-300X2



YZ-300X2



YZ-300X2



YZ-150B



YZ-400X2

**YZ-300X2**

唐山乐亭海上风电项目

Tangshan Laoting Offshore Wind Power

施工情况: 桩长65m, 直径2m壁厚24mm, 入土深度30m左右

Construction situation: The pile length is 65m, the diameter is 2m, the wall thickness is 24mm, and the burial depth is about 30m

YZ-300X2

大丰华尔辰海上风电项目

Dafeng Huaerchen Offshore Wind Power

施工情况: 直径2.4m55m长, 入土30m

Construction situation: diameter 2.4m, length 55m, buried 30m into the soil

YZ-400X2

山东烟台海上风电项目

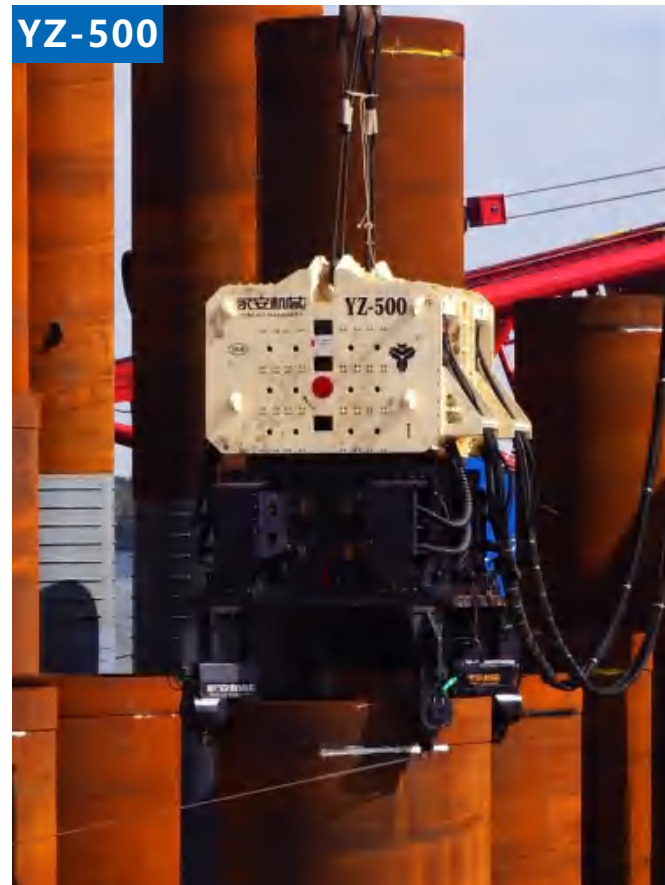
Shandong Yantai offshore wind power

施工情况: 桩长72m、桩径2.2m

Construction situation: Pile length 72m, pile diameter 2.2m

地质情况: 泥沙层

Geological conditions: sediment layer

YZ-500**YZ-300X2**

珠海黄茅海跨海大桥项目

Zhuhai Huangmaohai Cross Sea Bridge Project

施工情况: 桩径1m, 桩长35m

Construction situation: Pile diameter of 1m, pile length of 35m

YZ-150B

温州龙湾项目

The United Arab Emirates Coast Guard PortProject

施工情况: 拔锁扣、钢板桩

Construction situation: 16.5m in length, 10mm in wall thickness, 16m in depth into the soil

YZ-500

江苏盐城大丰风电场项目

Jiangsu Dafeng Wind Farm

施工情况: 桩长52m、直径2.5m、壁厚50mm、入土深度18-22m

Construction situation: pile length of 52m, vertical diameter of 2.5m, wall thickness of 50mm, and burial depth of 18-22m

地质情况: 泥沙层

Geological conditions: sediment layer

YZ-300X2



YZ-400BX2



YZ-300X2



YZ-400BX2



YZ-400B



YZ-300X2

海南铺前跨海大桥项目 Hainan Puqian Cross Sea Bridge Project

施工情况: 钢管复合桩, 直径4.3m, 桩长65m, 重量约100t, 入水深度6m、入土深度11m
Construction situation: Steel pipe composite pile, diameter 4.3m, pile length 65m, weight about 100t, water depth 6m, soil depth 11m

用途: 大桥主墩钢护筒
Purpose: Steel casing for the main pier of the bridge

地质情况: 黏土加石灰岩、沙土
Geological conditions: Clay with limestone and sandy soil

YZ-400BX2

马鞍山长江公铁大桥项目

Ma'anshan Yangtze River Highway and Railway Bridge Project

施工情况: 桩长46m, 壁厚4cm、入土20m、桩重160t、护筒直径4.4m拔桩

Construction situation: The pile length is 46m, the wall thickness is 4cm, the depth of the soil is 20m, the pile weight is 160t, the diameter of the casing is 4.4m, and the pile is pulled out

YZ-400B

中国能建肇明高速项目

China Energy Construction Zhaoming Expressway Project

施工情况: 直径3.3m、桩长38m、护筒、入土深度: 8m

Construction situation: diameter 3.3m, pile length 38m, casing, burial depth: 8m

地质情况: 淤泥、鹅卵石

Geological conditions: silt, pebbles

YZ-400L



YZ-300X2

福建平潭大唐海上风电项目 Fujian Pingtan Datang Offshore Wind Power Project

施工情况: 桩径2m, 长67m, 入土深度20m

Construction situation: The pile diameter is 2m, the length is 67m, and the burial depth is 20m

YZ-400BX2

温州瓯江口北口大桥项目 Wenzhou Oujiangkou Beikou Bridge

施工情况: 钢管桩直径2.2m, 桩长70m、壁厚30mm、入土60m、拔桩

Construction situation: The diameter of the steel pipe pile is 2.2m, the pile length is 70m, the wall thickness is 30mm, the depth of the soil is 60m, and the pile is pulled out

用途: 支护桩, 斜桩

Purpose: Supporting pile, inclined pile

YZ-400L

珠机城际轻轨(横琴-珠海机场)项目

Zhuhai Intercity Light Rail (Hengqin Zhuhai Airport) Project

施工情况: 钢管桩直径0.8m, 桩长60m壁厚10mm, 打桩入土55m

Construction situation: The diameter of the steel pipe pile is 0.8m, the pile length is 60m, the wall thickness is 10mm, and the pile is driven 55m into the soil

YZ-300X2

**YZ-300X2**

广东阳江海上风电项目
Guangdong Yangjiang Offshore Wind Power Project

施工情况:打桩拔桩, 钢管直径1.93m-2.4m
Construction situation: Pile driving and pile pulling, steel pipe diameter 1.93m-2.4m

YZ-300X2

**YZ-300X2**

赤壁长江公路大桥项目
Chibi highway bridge

施工情况:桩长30m、入土24.9m、桩直径1m、壁厚1cm
Construction situation: The diameter of the casing is 2.4m, the length is over 50m, and it is driven into the seabed at a depth of 16m
地质情况:淤泥, 粉质粘土
Geological conditions: silt, silty clay

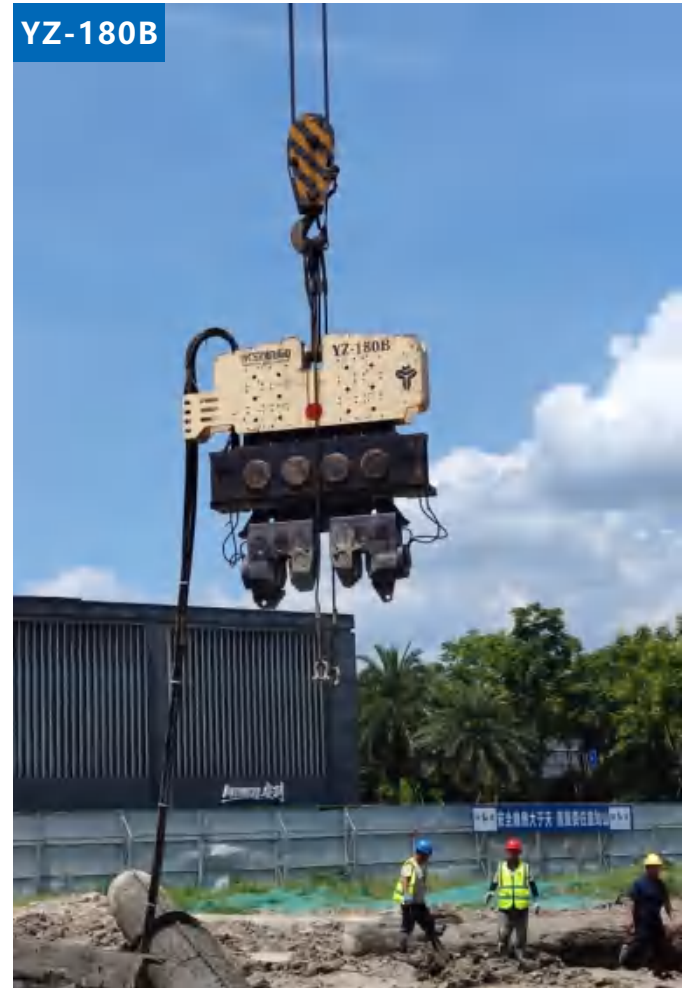
YZ-400X2



YZ-230VM



YZ-180B

**YZ-400X2**

佛山市富龙西江特大桥项目
Fulong Xijiang Bridge in Foshan

桩径3.35m, 长度54m, 壁厚2.5mm入土深座29m, 用途:大桥主墩
Pile diameter 3.35m, length 54m, with a thickness of 2.5mm and a depth of 29m into the soil, used as the main pier of the bridge

地质条件:沙层加鹅卵石
Geological conditions: sand layer with pebbles

YZ-180B

鹿城广场拔桩项目
Pile pulling of Lucheng square

桩径915mm, 桩长20m, 重量6.72T
Pile diameter 915mm, pile length 20m, weight 6.72T

地质情况:粉砂层
Geological condition: Loess layer

YZ-230VM

杭州余杭区房建项目
Hangzhou Yuhang District Housing Construction Project

施工情况:直径915mm, 桩长20m、入土深度19.5m
Construction situation: Diameter of 915mm, pile length of 20m, and burial depth of 19.5m
地质情况:淤泥、黄黏土
Geological conditions: silt, yellow clay

YZ-800BX2

**YZ-800BX2**

福建霞浦东吾洋特大桥项目
Fujian Xiapu Dongwuyang Extra Large Bridge Project

施工情况:桩长75.85m, 桩径4.4m, 重298.3t
Construction situation: Pile length 75.85m, pile diameter 4.4m, weight 298.3t

YZ-180B



YZ-180B

泰国曼谷MRT pink line
Bangkok, Thailand

YZ-400B

大丰海上风电项目
Dafeng Offshore Wind Power

施工情况: 桩长40-55m, 入土30m直径1.8m 桩径2.2m
Construction situation: Pile length of 40-55m, buried 30m into the soil Diameter 1.8m, pile diameter 2.2m

YZ-400B



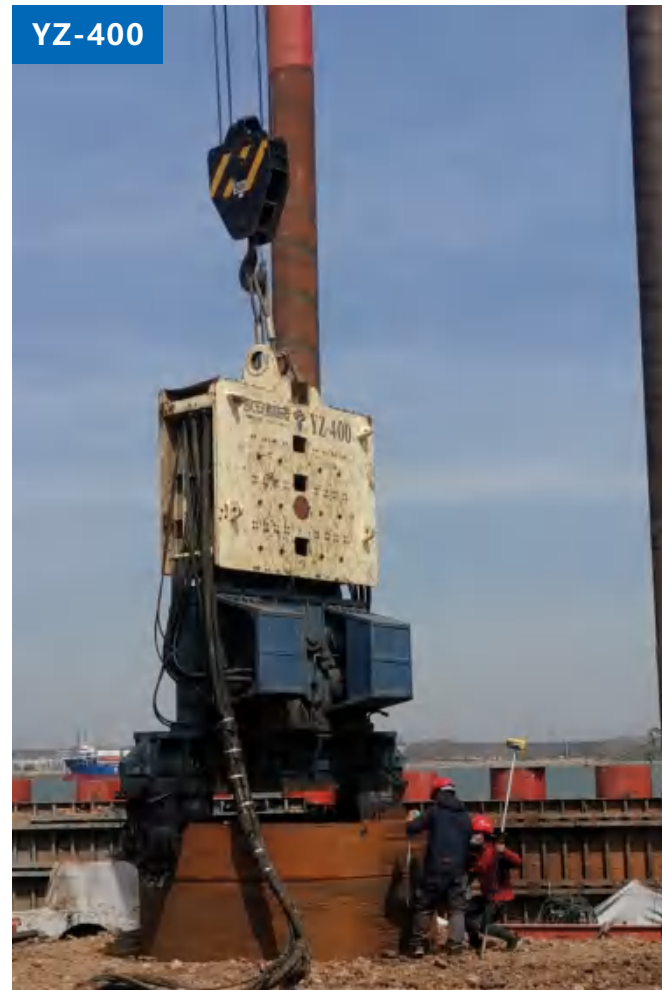
YZ-400B

深中通道人工岛水下拔桩项目
Underwater pile pulling of artificial island
ShenZhen-Zhongshan Bridge Project

YZ-400B



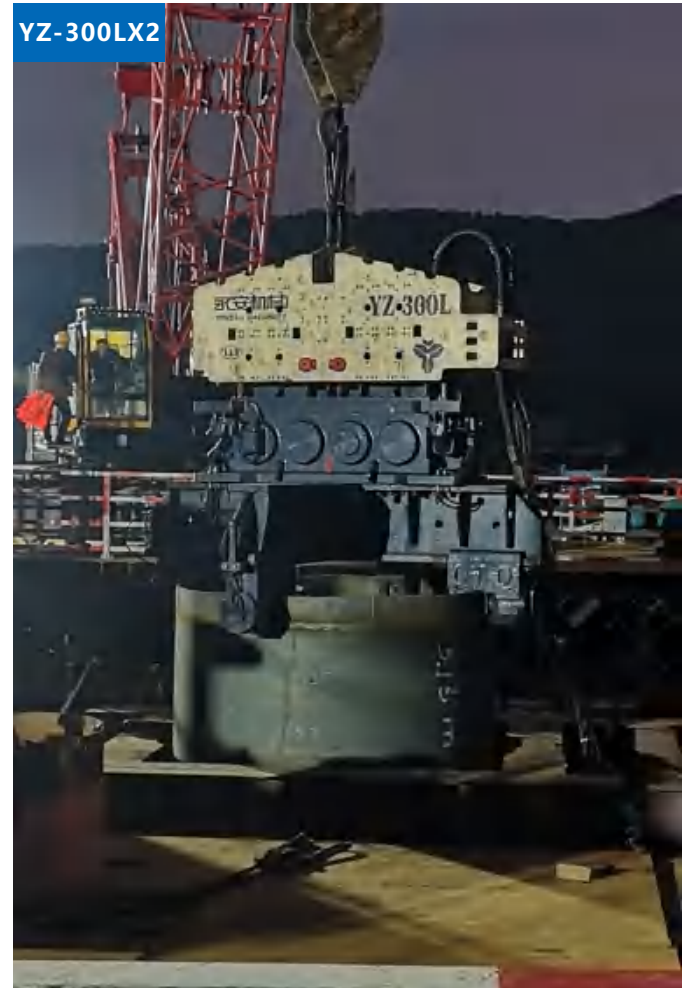
YZ-400



YZ-90D



YZ-300LX2



YZ-400

禹门口黄河大桥项目
Yumenkou Yellow River Bridge Project

施工情况: 桩径2.3m, 入土深度18m

Construction situation: Pile diameter 2.3m, burial depth 18m

地质情况: 淤泥、砂石、卵石层

Geological conditions: silt, sand and gravel, pebble layer

YZ-300LX2

南京第五长江大桥项目
Nanjing Fifth Yangtze River Bridge Project

施工情况: 桩径3.6m, 桩长30m入土深度30m

Construction situation: pile diameter of 3.6m, pile length of 30m, and burial depth of 30m

地质情况: 粉质粘土

Geological condition: powdery clay

YZ-90D

常州至无锡段高速公路项目
Changzhou Wuxi Expressway Project

施工情况: 桩长18m

Construction situation: Pile length of 18m

YZ-800B

**YZ-800B**

温州瓯江北口大桥项目
Wenzhou Oujian Beikou Bridge Project

施工情况: 桩厚30mm、桩长80m、入土深度60m
Construction situation: pile thickness of 30mm, pile length of 80m, and burial depth of 60m

地质情况: 泥土层、岩石层
Geological conditions: soil layer, rock layer

YZ-400L

**YZ-400L**

深中通道S08广州夯实项目

Shenzhen-Zhongshan Bridge s08 Guangzhou tamping Project

YZ-800B

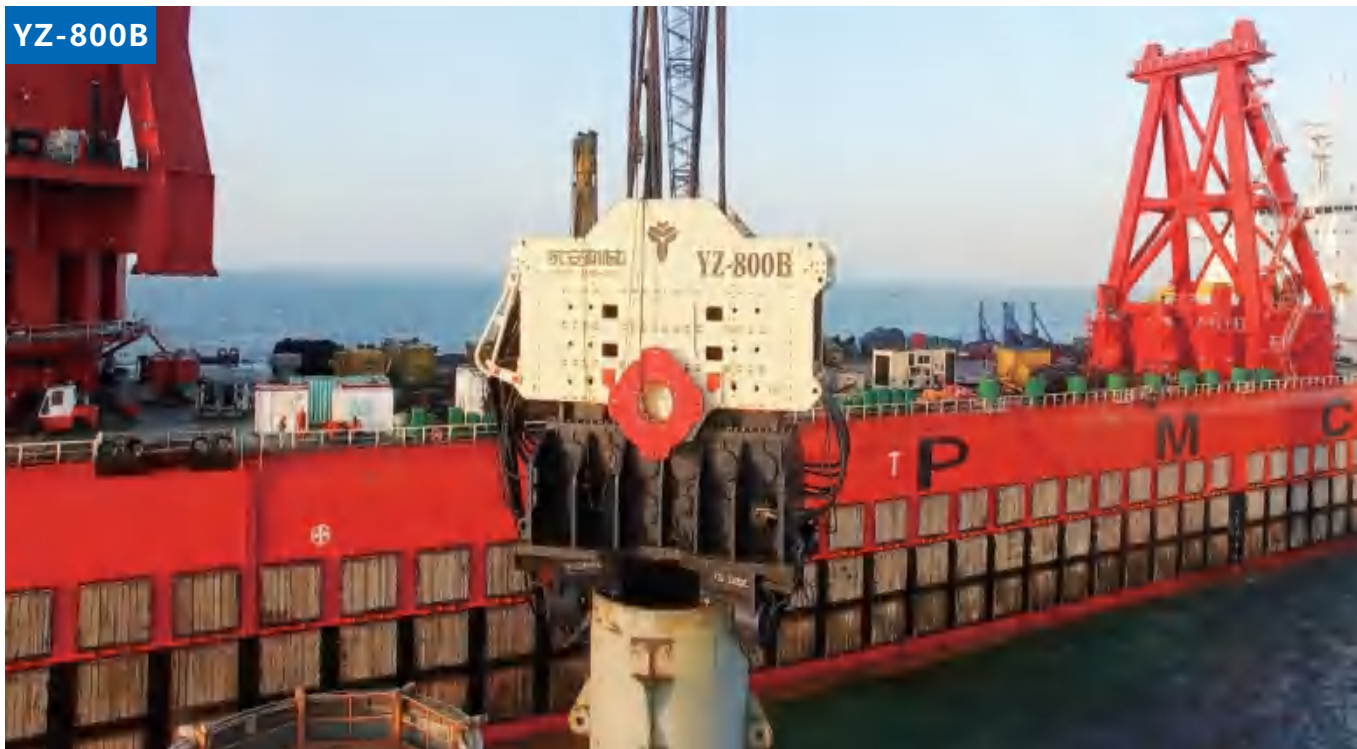
广东陆丰中广核海上风电项目

Guangdong Lufeng CGN offshore wind power project
施工情况: 桩径2.4m、桩长70m、壁厚50mm、入土深度20m

Construction situation: The pile diameter is 2.4m, the pile length is 70m, the wall thickness is 50mm, and the burial depth is 20m

地质情况: 泥沙层, 拔桩时长约15分钟
Geological conditions: sediment layer, with a pile pulling time of about 15 minutes

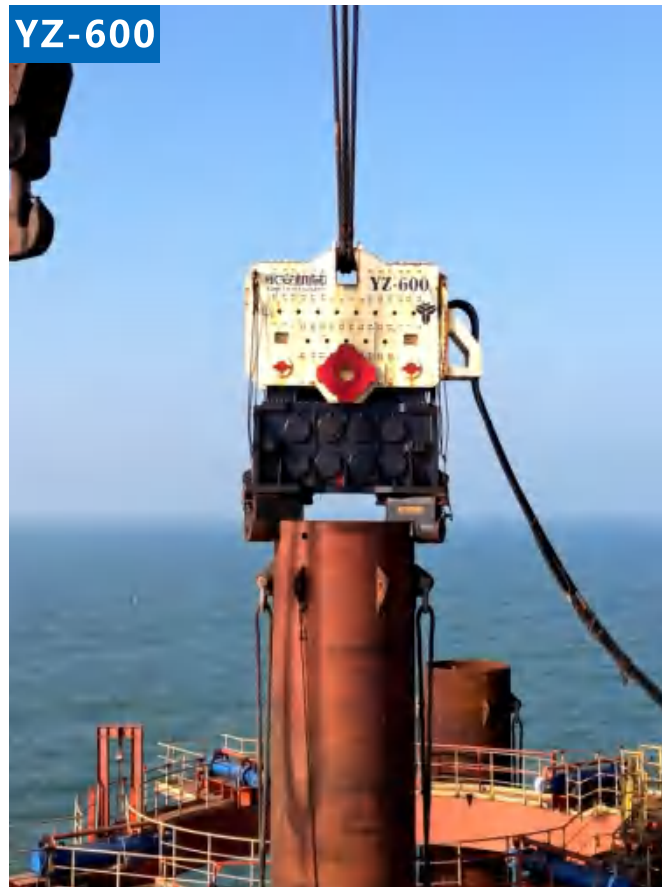
YZ-800B



YZ-280L



YZ-600



YZ-230F



YZ-280L

江苏高铁桥围堰桩项目

jiangsu high-speed railway bridge cofferdam pile Project

施工情况: 桩径1.2m 桩长21m, 入土深度20m, 桩径800-1000mm壁厚10-16mm

Construction situation: Pile diameter 1.2m, pile length 21m, burial depth 20m, pile diameter 800-1000mm, wall thickness 10-16mm

YZ-230F

佛山顺德金山大道项目

Foshan shunde Jinshan Boulevard Project

施工情况: 桩径820mm, 桩长27m、壁厚12mm, 入土深度20m

Construction situation: The pile diameter is 820mm, the pile length is 27m, the wall thickness is 12mm, and the burial depth is 20m

地质情况: 土沙层, 强风化石层

Geological conditions: soil and sand layers, strongly weathered rock layers

YZ-600

山东东营海上风电项目

Shandong Dongying Offshore wind Power Project

施工情况: 桩径2300mm, 桩长60m, 入土深度12m

Construction situation: Pile diameter 2300mm, pile length 60m, burial depth 12m

地质情况: 中细沙层

Geological conditions: medium fine sand layer

YZ-110D

**YZ-110D**

上海市高速铁路项目
Shanghai shanghai high speed railway Project

施工情况: 桩长23m、入土深度20m

Construction situation: The pile is 23m long and has a depth of 20m into the soil

地质情况: 泥土层

Geological condition: Soil layer

YZ-230VM

**YZ-230VM**

杭州房建基础施工
Foundation construction of Hangzhou housing construction Project

施工情况: 拔桩, 桩长30米, 埋深地下2米

Construction situation: Pull out the pile, with a length of 30 meters and a burial depth of 2 meters underground

地质情况: 泥土层

Geological condition: Soil layer

YZ-600

大连庄河海上风电项目
Dalian Zhuanghe Offshore Wind Power Project

施工情况: 顶桩径2.4m, 桩长78m, 壁厚50mm, 入土深度20m,
Construction situation: The top pile diameter is 2.4m, the pile length is 78m, the wall thickness is 50mm, and the burial depth is 20m.

地质情况: 泥沙层

Geological conditions: sediment layer

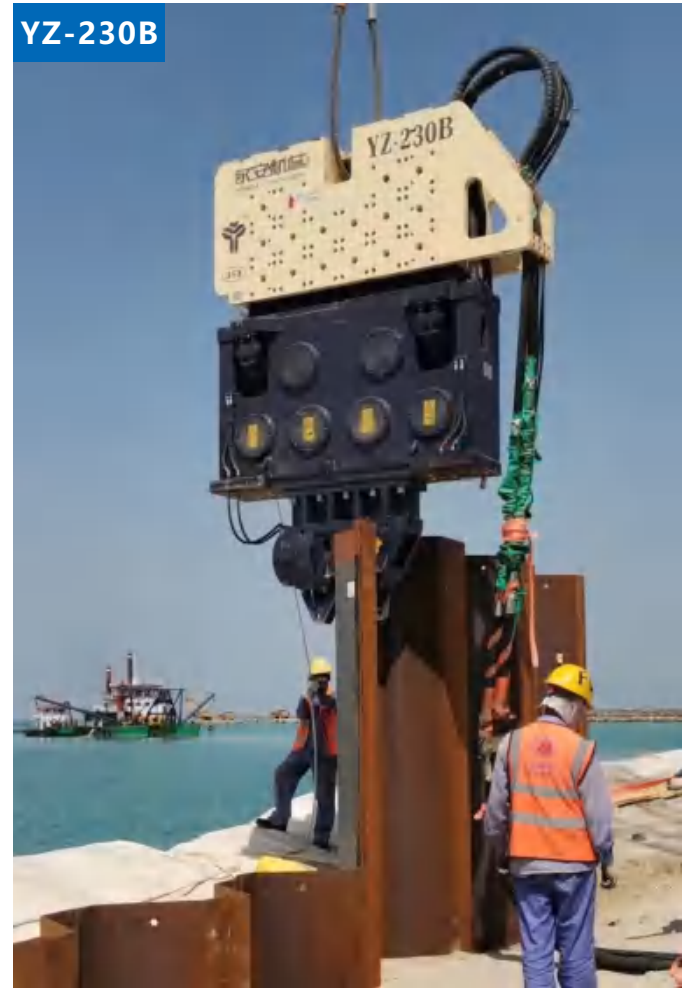
YZ-600



YZ-250VM



YZ-230B



YZ-180B

**YZ-250VM**

瓯江北口大桥项目
oujiangkou Bridge Project

施工情况: 桩长26m、壁厚8mm、入土深度26m

Construction situation: Pile length of 26m, wall thickness of 8mm, and depth of 26m into the soil

YZ-230B

阿联酋海警港项目
The United Arab Emirates Coast Guard Port Project

施工情况: 长16.5m、壁厚10mm、入土深度16m

Construction situation: 16.5m in length, 10mm in wall thickness, 16m in depth into the soil

YZ-180B

温州房地产项目
Wenzhou Real Estate Project

施工情况: 桩径630mm, 桩长20m

Construction situation: Pile diameter 630mm, pile length 20m