

工程展示 Project display



高铁承台钢板桩维护
Maintenance of steel sheet pile of high-speed railway cushion cap



东北城市管廊
Northeast urban pipe gallery



光伏建设
Photovoltaic construction



桥底施工
Construction under bridge



高压线下施工
Construction under high-voltage line



厂房限高施工
Plant height limit construction



矿山施工
Mine construction



高频碎石
High-frequency lithotripsy



河道疏浚
River dredging

坤龙TM HBERTECH[®]



江苏坤龙机械科技有限公司

HBERTECH PILE DRIVING EQUIPMENT Co., Ltd

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江苏坤龙机械科技有限公司是一家从事工程机械研发、制造的智能装备综合解决方案供应商。公司通过 ISO9000 质量体系认证（证书编号：NOA1824367），拥有强大的研发中心，通过对整套挖掘机工作系统的深入研究，利用专业的软件全新设计，进行有限元分析、动态模拟、焊接工艺分析等，最大限度保证整套系统设计的合理性，使设备具有低重量、高激振力、低噪音、低磨损、高寿命等特性。

HberTech Pile Driving Equipment Co., Ltd. is a high-tech enterprise that develops and manufactures intelligent types of equipment. The company has passed the ISO9000 quality system certification (certificate number: NOA1824367). The equipment has the characteristics of low weight, high excitation force, low noise, low wear and long life.

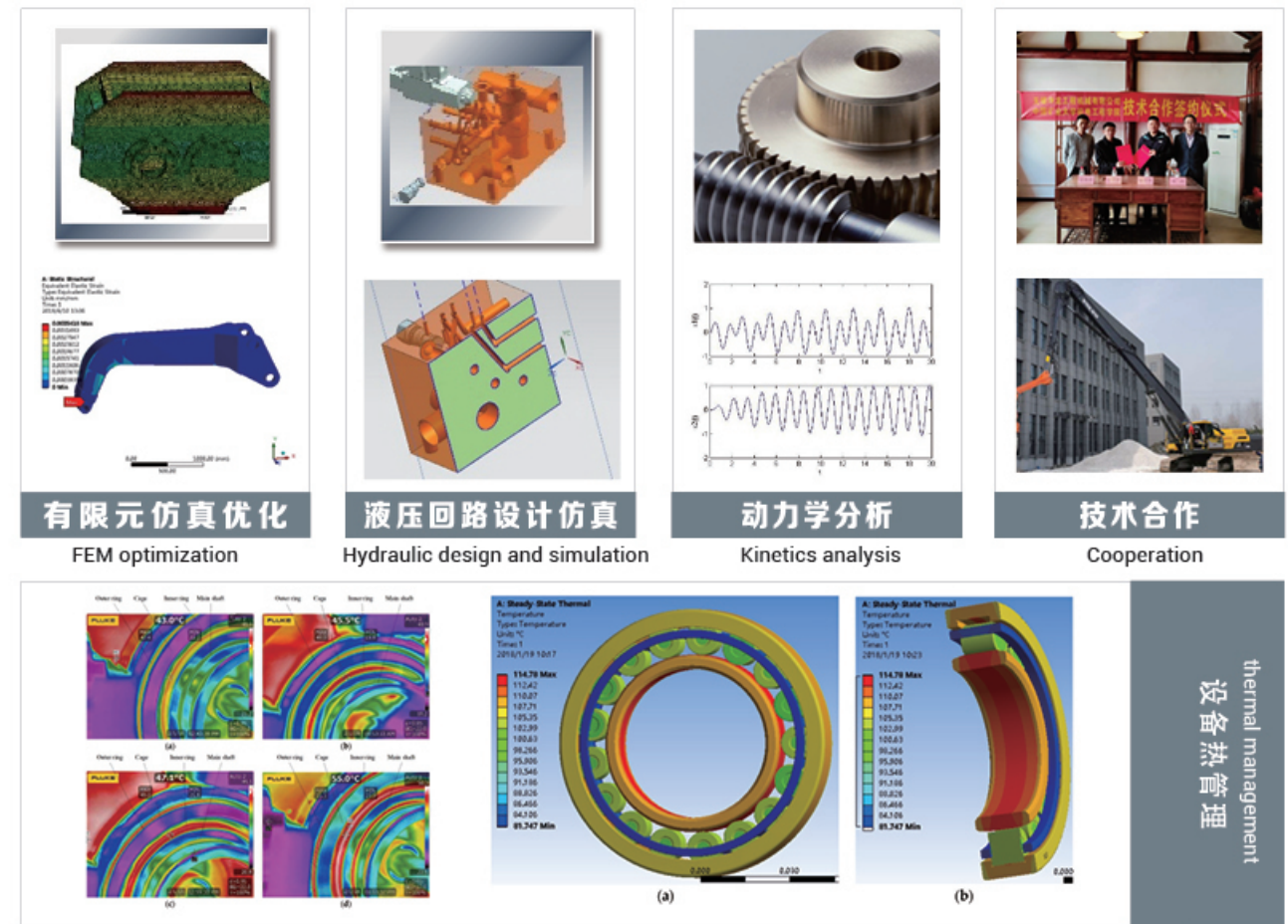


公司生产的高频液压振动锤、侧夹打桩机、振动碎石机与搅吸疏浚泵是专门搭配挖掘机使用，有效利用挖掘机的液压动力及充分发挥挖掘机的机动性强，操作灵活的特性使桩基工程施工迈向新阶段，大幅节约施工成本，提高工作效率。让您的挖掘机实现一机多用，提高投资效益。研发的产品获得多项发明专利和实用新型专利。

Excavator Mounted Vibratory Hammers, Side Grip Vibro Hammers, Hydraulic Ripper and Excavator Dredge Pump Attachment produced by us are mobile and flexible. The foundation construction has entered a new stage which significantly saves construction costs and improves work efficiency. The developed products have obtained several invention patents.



技术背景 BACKGROUND



加工设备 EQUIPMENTS



公司业务发展 BUSINESS DEVELOPMENT OF THE COMPANY

立足国内销售，遍布 30 个省市自治区。主要江浙、东北。积极发展国外市场，目前涵盖非洲、东南亚主要地区。

Based on domestic sales, it covers 30 provinces, cities and autonomous regions. Mainly in Jiangsu, Zhejiang and Northeast China. Actively develop foreign markets, currently covering major regions in Africa and Southeast Asia.



KN 系列 - 高频振动锤
Excavator Mounted Vibratory Hammers

360 度双马达回转结构，通过高压回转接头简化油路。

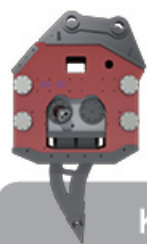
360-degree dual-motor rotary structure, simplifying the oil circuit through high-pressure rotary joints.



KS 系列 - 侧夹打桩机
Side Grip Pile Drivers

实现侧边夹桩，满足有限高或者超长桩的施工。

Realize side clamping piles to meet the construction of limited height or extra long piles.



KR 系列 - 振动碎石机
Hydraulic Ripper

工作平稳且空振不伤本体；工作频率带高，适用广泛；

Work smoothly and air vibration does not hurt the body; high working frequency band, widely applicable.



KD 系列 - 搅吸疏浚泵
Excavator Dredge Pump Attachment

高压同轴式绞吸结构，配备特制内型和高强度叶轮，有效解决堵塞难题。

special inner type and high-strength impeller solve clog effectively.

KN 系列 - 高频振动锤 KN-EXCAVATOR MOUNTED VIBRATORY HAMMER

工作原理 PRINCIPLE OF VIBRATOR

Kn 系列高频振动锤内置偏心轴采用液压马达驱动，产生高速旋转及垂直共振激振力，通过减振胶块，维持一定的振幅能够达到在各种类型的土质打桩要求。

Excavator Mounted Vibratory Hammer is driven by a hydraulic motor to generate high-speed rotation and vertical resonance excitation force.

Kn 系列高频振动锤提供了合流输出功能供客户选择安装，因应不同的工作要求来调节振频，而达到满足施工要求。

KN- Excavator Mounted Vibratory Hammers provide a solution of adjusting the vibration frequency according to different work requirements.

施工原理 PRINCIPLE OF CONSTRUCTION

高频振动锤是利用高频振动，将机械产生的垂直振动传给桩体，导致周围土质结构软化，进而实现钢板桩、拉森桩、钢管桩及预制桩的沉拔桩操作。

Excavator Mounted Vibratory Hammers uses high frequency vibration to transmit the vertical vibration generated by the machinery to the pile body, resulting in softening of the surrounding soil structure, which in turn enables the operation of sinking and extracting piles of sheet piles, Lassen piles, steel pipe piles and precast piles.

计算方式 CALCULATION

正常工作时，最大振幅：

the maximum amplitude:

$$A = \frac{2000M_t}{M}$$

其中单位为：

unit as

A：锤的振幅，mm

amplitude

M：锤的振动质量含夹具质量 + 桩体质量，Kg

The vibration quality of the equipment

例如：

E.g:

K450D 振动锤： $A = \frac{2000 \times 11 \text{ kg} \cdot \text{m}}{1300 + 1000} = 9.65 \text{ mm}$

The max amplitude of K450D is 9.65mm

激振力 /force: $P_{\text{Max}} = 0.011 \times M \times n^2$

例如 /E.g:

K450D 振动锤以 2600rpm 频率工作时：

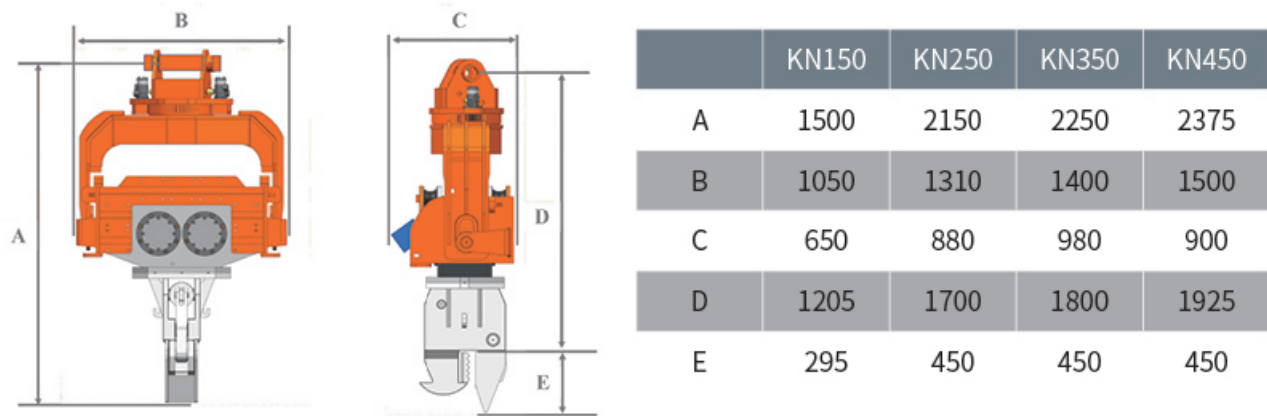
The max force of K450D is 818kN in the condition of frequency 2600rpm

$P_{\text{Max}} = 0.011 \times 11 \text{ kg} \cdot \text{m} \times (2600 \text{ rpm})^2 = 818 \text{ kN}$

典型施工工况
TYPICAL CONSTRUCTION CONDITIONS



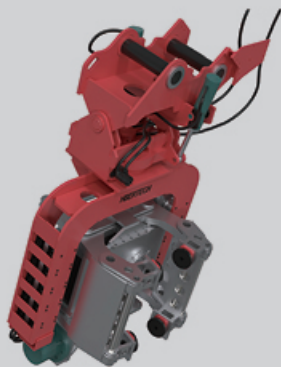
结构示意图 STRUCTURE DIAGRAM 外形尺寸 OVERALL DIMENSION



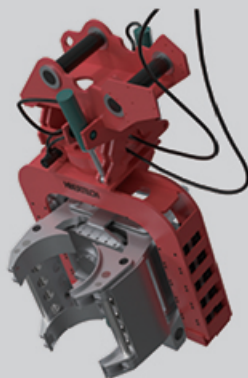
性能规格表 PERFORMANCE SPECIFICATION TABLE

MODEL	TECHNICAL SPECIFICATIONS				
	KN150	KN250	KN350	KN400	KN450
偏心力矩 (kg.m) Eccentric Moment	3.2	5.1/5.7	7.1	9.5	11
转速 (rpm) Frequency	2600	2600	2600	2600	2600
激振力 (t) Centrifugal Force	24	38/42	52	68	81
流量需求 (l/min) Oil Flow	100	163	220	260	300
主机总重 (t) Total	1.2	1.6	2.4	2.5	2.6
匹配挖机吨位 (t) Excavator Class	8-12	20-25	25-35	35-45	40-55
夹嘴总重 (kg) Clamp	C15: 450 ; C16: 548				
副手臂重量 (kg) Arm Weight	A150: 400 ; A200:700 ; A250: 800 ;				

KS 系列 - 侧夹打桩机 KS- SIDE GRIP PILE DRIVERS



钢板桩打桩机
SIDE GRIP DRIVER FOR PILES



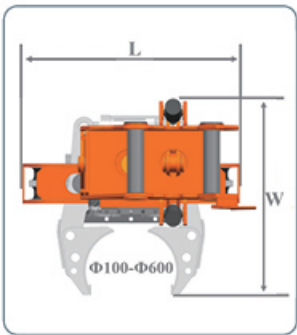
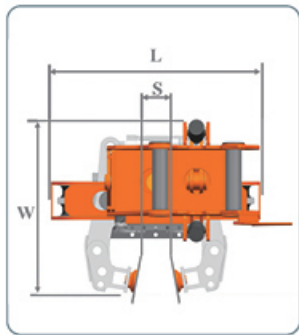
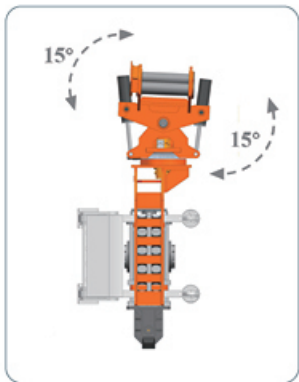
管桩打桩机
抱夹直径除通用外，需定制
SIDE GRIP DRIVER FOR TUBES

KS 系列

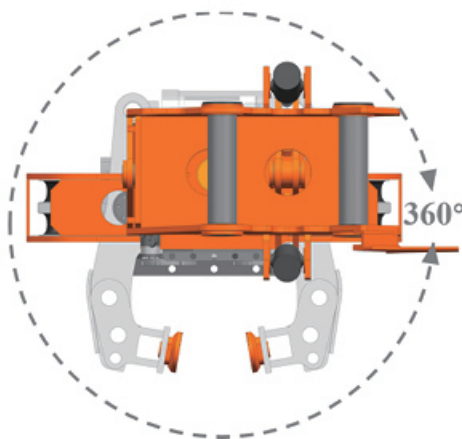
针对传统液压打桩锤的夹持装置几乎都处于装置下部，只能向下夹持拉拔沉桩。在桩体较长时，则需要大吨位的挖掘机以及对挖掘机的主臂和副臂进行改造长度的施工现状。

本公司开发出一种新型侧夹打桩结构，其目的旨在克服现有技术存在的上述不足，实现侧边夹桩，满足在桥梁、厂房等有限高的场所或者超长桩的施工。

Our company has developed a new type of side clamp piling structure, the purpose of which is to overcome the clamp shortcomings of the existing technology, realize the side clamp pile, and meet the requirements of the construction of bridges, factories and other places with limited height or super long piles.



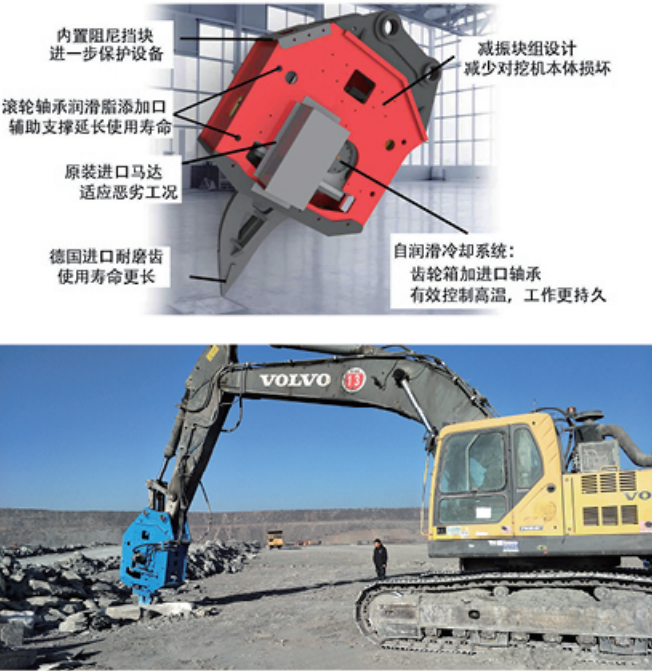
侧夹桩机
性能规格表



型号参数 Technical Data	KS40	KS60	KS70	KS80
偏心力矩 (kg·m) Eccentric moment	4.9	6.8	8.9	10.5
激振频率 /n(rpm) Frequency/n(rpm)	2600	2600	2600	2600
激振力 (kN) Centrifugal Force	364	505	661	780
总重 (不含夹嘴) ton Weight WithoutClamp	2.6	3.4	3.5	3.6
液压系统操作压力 (bar) Pressure setting	300	320	330	330
液压系统流量需求 (Lpm) Oil Flow	190	280	350	370
开合尺寸 /S(mm) Arm Stroke	250	250	250	250
侧夹夹紧力 (ton) Side Gripping Force	50	50	50	50
底部夹紧力 (ton) Clamping Force	60	60	60	60
整机尺寸 (长×宽×高) Dimensions (L×W×H) mm	1350×1050 ×2410	1600×1280 ×2610	1600×1280 ×2610	1600×1280 ×2610
配适挖机型号 Excavator class	20	30	40	50



KR 振动碎石机



KR 系列 - 振动碎石机
KR- Hydraulic Ripper

针对露天矿场移动式碎石采矿需求，定制高频碎石机优化了常规碎石机机构，使其能承受高频振动平稳工作并且在空振时不伤害碎石机本体；拓宽了工作频率带，适用广泛；

For stone mining, the customized Hydraulic Ripper optimizes the conventional stone crusher mechanism, so that it can withstand high frequency vibration and work smoothly; it broadens the working frequency band and is widely applicable.

技术参数 TECHNICAL SPECIFICATIONS					
MODEL		KR250	KR350	KR450	KR550
转速 (rpm) Frequency		2200	2000	2000	1700
液压系统操作压力 (bar) Pressure setting		300	320	330	350
偏心力矩 (kg.m) Eccentric Moment		7.1	9.2	11	21.5
流量需求 (l/min) Oil Flow		180	260	300	400
匹配挖机吨位 (t) Excavator Class		18 ~ 27	28 ~ 35	36 ~ 42	56 ~ 65
尺寸	高 (A)	2468	2778	2778	3018
		97	109	109	59
	长 (B)	1316	1610	1610	1486
		52	63	63	37
	宽 (C)	806	926	926	928
		32	36	36	23
	总重	1.4	1.6	2.1	2.5
		3086	3527	4629	5511



KD 搅吸疏浚泵

KD 系列 - 搅吸疏浚泵
KD- Excavator Dredge Pump Attachment

绞吸式疏浚泵挖掘系统作为大型的疏浚设备，能够长时间持续施工，且其受到的天气、河道水位的影响小，能够持续开挖，工程效率较高；

Excavator Dredge Pump Attachment, as a large dredging equipment, is able to work continuously for a long time, and it is less affected by the weather and water level of the river, so it is able to excavate continuously and has high engineering efficiency.



型号参数 Technical Data	KD100	KD150	KD200
处理量 (m3/h) Mixture capacity	250	450	700
吸入口直径 mm Suction Size	150	200	250
排水管直径 mm Discharge Size	100	150	200
可通过的最大固体块 mm Solids Handling	50	75	125
总重 ton Overall Weight	1200	1500	1800
操作压力 (bar) Pressure setting	280	280	280
最小液压流量 (L/min) MAX FLOW	130	180	270
刀头液压流量 (L/min)	45-60	45-60	45-60
配适挖机型号 ton Excavator class	20-35	35-45	50-60

