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EXPERTISE IN DELIVERING TURNKEY SOLUTIONS  
TO DEEP FOUNDATION ISSUES

**HM系列  
液压打桩锤**

HM Series Hydraulic Hammer



HM系列液压打桩锤是上海工程机械厂有限公司设计制造的高性能液压打桩锤，主要性能达到国际先进水平。与筒式柴油打桩锤相比，液压打桩锤具有噪声低、无油烟、能量传递效率高、每一个工作循环沉桩力持续时间长、打击能量易于控制等特点。该系列产品用途广泛、可控性高、施工效率高、环保节能和可靠性高，兼具斜桩等作业方式。

适用于跨海大桥、海上石油钻井平台、海上风电场、深水港码头和海上人工岛围海建设等大型工程，具有十分广阔的市场前景，在打入式桩基础施工中将逐渐取代筒式柴油打桩锤。



## 液压打桩锤

# H260M/H600M/H800M/H1000M

## HM系列液压打桩锤 HM Series Hydraulic Hammer

HM series hydraulic pile hammer is a high performance hydraulic pile hammer designed and manufactured by Shanghai Engineering Machinery Co., Ltd. Its main performance reaches the international advanced level. Compared with the diesel pile hammer, the hydraulic pile hammer has the characteristics of low noise, no oil smoke, high energy transfer efficiency, long duration of pile driving in each working cycle, and easy to control the striking energy. This series of products are widely used, high controllability, high construction efficiency, environmental protection, energy saving and reliability.

Suitable for big projects, such as, cross sea bridges, oil rigs, offshore oil platforms, wind farms, deep water docks, and man-made island reclamations, etc.

## 双作用液压打桩锤技术

### TECHNICAL PRINCIPLE OF DOUBLE ACTING HYDRAULIC HAMMER

液压锤属于冲击式打桩锤，按其结构和工作原理可分为单作用式和双作用式两种。

本系列液压打桩锤属于双作用式，冲击锤芯通过液压装置提升到预定高度后，在重力势能及压缩氮气的弹性能联合作用下，获得较高的锤芯冲击速度，提升液压打桩锤的打击能量。

HM系列双作用液压打桩锤对应轻锤重打理论，以较小的锤芯重量、较高的冲击速度为特点，打击能量大，适合打钢桩。

Hydraulic hammer belongs to impact piling hammer. According to its structure and working principle, it can be divided into single acting hammer and double acting hammer.

This series hydraulic pile hammer belongs to double acting type, after the hammer ram is raised to a predetermined height through the hydraulic device, it can obtain a higher impact velocity under the combined action of gravitational potential energy and elastic energy of compressed nitrogen, and improve the impact energy of hydraulic pile hammers.

The double acting hydraulic pile hammer corresponds to the theory of light weight hammer, which is characterized by small weight of hammer core and high impact velocity.



# H260M/H600M/ H800M/H1000M

## 液压打桩锤

### 液压打桩锤技术特点

#### TECHNICAL FEATURES OF HYDRAULIC HAMMER

##### 1 低噪音、低污染，节能、环保、可靠

Low noise, low pollution, energy saving, environmental protection, reliable

- 液压锤由液压系统提供动力，相对传统柴油锤，具有低噪音、低污染、能量转换效率高特点。动力柜采用进口低排放大功率发动机，经济性、可靠性好。箱体采用静音技术，噪音符合国家环保要求。通过智能化控制系统，可根据实际工况需求进行控制调节，节约能源。
- Hydraulic hammer is powered by the hydraulic system. Compared with the traditional diesel pile hammer, it has the characteristics of low noise, low pollution and high energy conversion efficiency. The power pack adopts imported low emission high power engine, good economy and reliability. The pack adopts the mute technology, and the noise meets the national environmental protection requirements. The intelligent control system controls and adjusts system according to actual working condition, saving energy.

##### 2 自动化程度高，系统稳定，操作简单，故障率低

High degree of automation, system stability, simple operation, low fault rate

- 整机采用先进的智能化微电脑控制系统，操作轻便灵活。可根据实际工况需求，调节打击行程及每次锤击的冲击时间，便于充分释放能量，以获得最佳贯入度；
- PLC编程控制器和传感器性能可靠、耐冲击性能好。
- The whole machine adopts advanced intelligent microcomputer control system, flexible operation. The hammer stroke and impact time of each impact can be adjusted according to actual working conditions so as to fully release energy and obtain the optimal penetration degree.
- PLC programming controller and sensor have reliable performance and good impact resistance.

### 3 系统可靠性好、综合机械性能优良

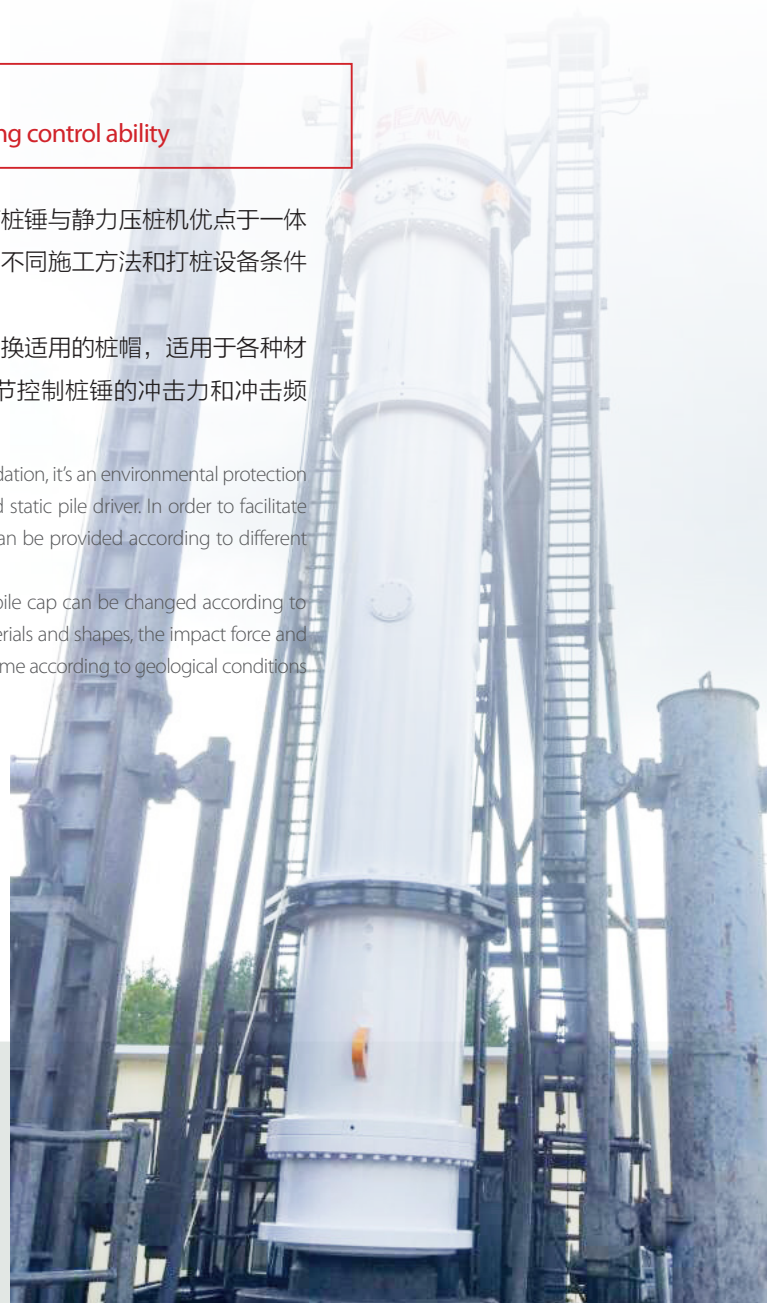
Good system reliability and comprehensive mechanical performance

- 液压泵、液压阀，油缸密封件采用优质配套件，具有吸振性好、耐冲击、耐磨损等特点，系统可靠性高。锤体材料及热处理工艺，充分考虑温度、耐磨、吸振、冲击等综合机械性能因素；
- 高、低压蓄能器集成布置结构紧凑、可靠性高。
- Hydraulic pump, hydraulic valve and oil cylinder seal are equipped with high quality parts and components, featuring good vibration absorbability, impact resistance and wear resistance, and high system reliability. Hammer's material and technology for heating processing, fully consider the comprehensive mechanical properties, such like temperature, wear-resisting, vibration absorption, and the impact, etc.
- High and low pressure accumulator integration compact layout and high reliability

### 4 配置灵活，应用范围广，调节控制能力强

Flexible configuration, wide application range and strong control ability

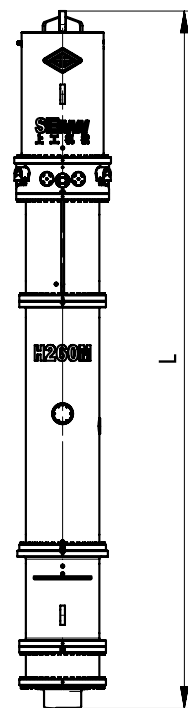
- 适应多种桩型的施工，软土地基不溜桩，是一款集柴油打桩锤与静力压桩机优点于一体的环保打桩装备。为了便于陆上打桩施工，可根据用户的不同施工方法和打桩设备条件提供多样化的起落架配置；
- 采用组合式桩帽，桩帽更换方便，可根据桩的形状规格更换适用的桩帽，适用于各种材质和形状的桩，可根据地质情况及桩的材料强度随时调节控制桩锤的冲击力和冲击频率。
- Suitable for a variety of piles construction, not slip pile in the soft soil foundation, it's an environmental protection piling equipment integrating the advantages of diesel pile hammer and static pile driver. In order to facilitate the construction of piles on land, various landing gear configurations can be provided according to different construction methods and conditions of piling equipment.
- The composite pile cap is convenient to be replaced, and the suitable pile cap can be changed according to the shape and specification of the pile, applicable to piles of various materials and shapes, the impact force and impact frequency of pile hammer can be adjusted and controlled at any time according to geological conditions and material strength of pile.



## 液压打桩锤技术参数

### HYDRAULIC HAMMER TECHNICAL PARAMETERS

产品型号 Product Model	H260M	H600M	H800M	H1000M
最大打击能量 (kJ) Max.strike energy	260	600	800	1000
锤芯重量 (kg) Ram Weight	12500	30000	40000	50000
总重量 (kg) Total Weight	30000	65000	82500	120000
锤芯工作行程 (mm) Stroke of hammer	1000	1000	1000	1000
最大落锤速度 (m/s) Max. drop hammer speed	6.3	6.3	6.3	6.3
外形尺寸(L) (mm) Dimensions	9015	10500	13200	13600
液压缸工作压力 (MPa) Working pressure of hydraulic cylinder	20~25	20~25	22~26	25~28
最大行程下工作频率 (bpm) Maximum operating frequency	30@600LPM 42@1000LPM	25@1000LPM 33@1600LPM	33@1600LPM	28@1600LPM
液压站额定流量 (L/min) Oil Flow	600	1000	1600	1600
柴油机功率 (hp) Diesel engine power	500	800	1200	1200



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