



恒天九五重工

CHTC JOVE HEAVY INDUSTRY CO., LTD



液压静力压桩机
Hydraulic Static Pile Driver

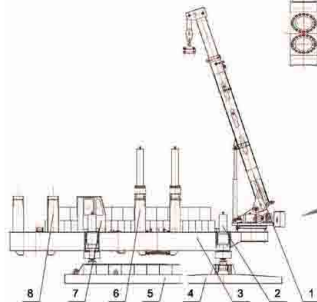
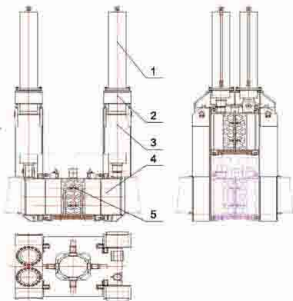
JVY 系列液静力压桩机介绍

JVY Series Hydraulic Static Pile Driver

JVY 系列液静力压桩机拥有多项国家专利，是一种新颖的环保型建筑施工设备，具有无污染、无噪声、无震动、压桩速度快、成桩质量高等显著特点，代表未来桩工机械的发展方向。JVY 系列液静力压桩机有 10 多个品种，压桩机从 60 吨 -1200 吨。采用品质优良的材料与元器件，独特的液压管路设计与加工方法，保证了液压系统的清洁与高可靠性，在源头上保证了产品的高品质。秉承“一切为了客户”的服务理念，提供个性化设计，为客户提供最佳解决方案。

JVY series hydraulic static pile driver is a new environmentally friendly pile foundation construction equipment with a number of national patents. It has the features of no pollution, no noise, no vibration, and fast pile driving, high quality pile. It is represent the future development tendency of piling machinery. JVY series hydraulic static pile driver has more than 10 varieties, the pressure capacity from 60 tons to 1200 tons. Using high quality materials and components, adopting the unique hydraulic piping design and processing methods ensures the clean and highly reliability of hydraulic system. High quality is guaranteed from the headstream. We provide the best service and personalized design with the concept "All for the customer".

1. 压桩油缸 1.Piling cylinder
2. 横梁 2.Beam
3. 立柱 3.Column
4. 夹桩钳 4.Clampping Box
5. 夹桩油缸 5.Clampping cylinder



1. 起重机 1.Crane
2. 升降机构 2.Lifting mechanism
3. 机身平台 3.Body Platform
4. 携移机构 4.Sliding bodies
5. 竖移机构 5.Vertical shift body
6. 压桩台 6.Piling platform
7. 驾驶室 7.Cab
8. 边桩立柱 8.Side Pile Column

产品主要特点

Main Product Features

恒天九五牌桩机除具有目前国内同类液静力压桩机产品所普遍具有的高效、节能、环保等技术性能之外，另外还具有以下独创技术特点：

CHTC JOVE Hydraulic Static Pile Driver enjoys the common features of pile driver such as high efficiency, energy saving, environmental-friendly and so on. Besides, we have more unique technique characteristics as following:



独特的夹持机构设计：每架钳口都可随桩身表面自行调整方位，保证钳口与桩身的大面积接触，避免桩身受损。
Unique design of clamping mechanism for each jaw to be adjusted with the shaft bearing surface to ensure the largest contact area with the pile, avoid damaging the pile.



构思新颖的边、角桩机构和合理的结构布局，提高了侧夹处理边、角桩的耐力。其边、角桩压力可达中桩压力的 60%-70%，性能大大优于传统边桩器。
Unique design of side/corner piling structure improves the capacity of side/corner piling, the pressure force of side/corner piling is up to 60%-70% of main piling. The performance is much better than hanging side/corner piling system.



独特的夹桩保压系统，能在油缸泄漏时自动补油，保证夹持的高可靠性，确保了施工质量。
Unique clamping pressure-keeping system can automatically fill in the fuel if the cylinder leak oil, ensuring high reliability of clamping pile and high quality of construction.



独特的终压稳压系统，保证了达到终压力时不浮机，大大提高了压桩安全操作性能。
Unique terminal pressure-stabilized system ensures no float to the machine at rated pressure, greatly improving the safety of operation.



独特的行走小车加油杯设计，能持久有效的润滑小车车轮，延长了车轮的使用寿命。
Unique walking mechanism with lubrication cup design could realize durable lubrication so as to extend service life of rail wheel.

大流量恒功率液压系统设计，压桩机工作更快速。
Constant & high flow power hydraulic system design ensures high piling efficiency.

液力静力压桩机的基本组成

Basic Structure Hydraulic Static Pile Driver

压桩台 Piling Platform

压桩台是本机的主要工作机构, 由它实现夹桩、压桩作业。主要由压桩油缸、横梁、立柱、夹桩箱、夹桩油缸等组成。

Piling platform is the main working body of the machine, which will achieve clamping piles, piling operations. Consist of the pressure cylinder piles, beams, columns, clip pile boxes, folders pile cylinder etc.

边桩机构 Side Piling Equipment

如果要处理边桩或角桩, 直接将压桩台部位的横梁压桩油缸总成和夹桩箱总成移到机身边桩立柱处, 安装固定、连接好油管, 即可实现边桩压桩作业。

If you want to handle corner or side piling job, directly shift the main pressure cylinder assembly & clamping box assembly to the side piling structure, then fix, installation, and connect the hydraulic tubing, thus can carry out the side/corner piling job

升降机构 Lifting Mechanism

升降机构主要由四个升降油缸与四条悬臂组成。四个升降油缸缸筒分别通过四条悬臂与机身连接, 其活塞杆分别与主船上的四组行走小车轮, 通过四个升降油缸的伸缩来实现机身升降。升降机构可实现行走、横机构的动作, 即可实现压桩机的行走和回转。

Lifting mechanism consists of four lifting cylinders and four cantilevers composition. Four cylinder lift cylinders were connected to the main machine by four cantilevers, and the piston rods articulated with the four walking cars, the adjustment of hoist cylinder will achieve the body movements. Pressure pile driver can walking and turning by the motion of lifting mechanism.

起重机 Crane

起重机安装在 JYV 液力静力压桩机上, 主要用于起吊桩的起吊设备。是 JYV 液力静力压桩机的一种辅助设备。起重机与一般液力汽车起重机的结构相似, 主要由内臂系统、悬吊系统、回转系统和液压控制系统组成。液压控制系统中包括一组手动多路换向阀, 驱动相应的多路换手阀, 可分别实现变幅、卷扬、回转、吊臂伸缩等动作。

Crane is installed on JYV hydraulic static pile driver, and is mainly used for lifting the precast pile; it is an assistant equipment of pile driver. The structure of this crane is similar to hydraulic truck crane, consist of the boom hoist system, winch system, rotary system and hydraulic control system. Hydraulic control system includes a manual multi-valve, control the corresponding multi-way valve and achieve the activities of amplitude, winding, rotary and telescoping, etc.

起重机构工作原理 Operation Principle Of Crane

液压控制系统: 由液油泵输出的液压油经回转接头送到起重机构部分。这时系统油压由多路阀上的溢流阀控制, 调定在 16MPa。手动操作可实现变幅、卷扬、回转和吊臂伸缩的动作。

Hydraulic control system: The hydraulic pressure of flow via rotary joint to crane system supplied by hydraulic pump. The system pressure is determined by overflow valve of multidirectional valve, the pressure setting is 16 Mpa. Hand operation can achieve the dericking, windlass, sewing and jib extending and retracting.



产品技术参数

Main Technical Parameter

参数 Parameter	型号 Model	最大工作压力 Max. piling pressure (t)	JYV 60A	JYV 80A	JYV 120A	JYV 160A	JYV 200A	JYV 300A	JYV 420A	JYV 500A	JYV 600A	JYV 700A	JYV 800A	JYV 900A	JYV 1000A	JYV 1200H
最大起重量 Max	60	80	120	180	240	320	420	500	600	600	600	700	800	900	1000	1200
高度	5.24	5.24	4.26	5.5	6.7	6.8	6.2	6.2	6.05	6.65	6.65	6.04	6.74	6.74	6.07	6.54
最低	1.8	1.37	1.5	2	0.91	0.93	1.1	1.1	0.98	0.94	0.74	0.74	0.74	0.74	0.67	0.56
一次拔桩行程 Piling stroke (m)	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7
一次行程速度	1.6	1.6	1.6	2.2	3	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Movers (m/min)	0.4	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7
最大转弯角 Swearing angle (°)	12	12	12	12	12	10	10	10	8	8	8	8	8	8	8	8
升降行程 Rise stroke (mm)	650	650	700	700	900	900	1000	1000	1000	1000	1100	1100	1100	1100	1100	1100
适用范围	方桩 Square pile	F200-F300	F200-F300	F200-F400	F300-F400	F300-F500	F300-F500	F300-F500	F300-F600	F300-F600	F400-F700	F400-F700	F400-F700	F400-F700	F400-F700	F400-F700
Pile type (mm)	圆桩 Round pile	φ200-φ300	φ200-φ300	φ200-φ400	φ300-φ500	φ300-φ500	φ300-φ500	φ300-φ500	φ300-φ600	φ300-φ600	φ400-φ600	φ400-φ600	φ400-φ600	φ400-φ600	φ400-φ600	φ400-φ600
桩距距离 Min. Side Pile Distance (mm)	350	350	450	750	900	1000	1000	1000	1250	1250	1400	1400	1400	1400	1400	1400
角桩距离, Min. Corner Pile Distance (mm)	470	470	670	1200	1250	1250	1250	1250	1635	1635	1635	1635	1635	1635	1635	1635
最大起重量 Max. hoist weight (t)	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
最大吊钩长度 Max. pile length (m)	10	10	10	12	12	12	14	14	14	14	14	14	14	14	14	14
功率 Main engine	22	22	22	27	45	45	60	74	111	119	119	119	119	119	135	135
起重电机 Crane engine	7.5	7.5	22	22	22	30	30	30	30	30	30	30	30	30	45	45
功率 Power (kW)	8000	6000	6000	6000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
外形尺寸 Overall dimension (mm)	工作宽 Work width	3700	4280	4380	5380	6110	6280	7300	7800	8280	8280	8280	8280	8280	8280	8280
	工作宽 Work width	3000	3000	3000	3000	3200	3260	3260	3260	3260	3260	3260	3260	3260	3260	3260
	运输重量 Transportation weight	62	82	122	182	242	322	422	502	602	602	702	802	902	1002	1202
	总机重量 Total weight (t)	62	82	122	182	242	322	422	502	602	602	702	802	902	1002	1202