恒天九五重工
CHTC JOVE HEAVY INDUSTRY CO., LTD

多功能电旋挖钻机（长螺旋）

Multi Function Drilling Rig (Electric Rotary Drilling Rig/Long Auger Drilling Rig)

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本产品吸收了国内外同类产品的优点，同时克服了现有国内产品的弱点而设计的新一代桩工机械。整机采用自行起架，整体运输的方式提高了安装效率，缩短准备时间，减少了人力劳动。整机功能方面也做了扩展，如根据施工需要不须任何改动只需改变顶部滑轮组的组合方式即可分别配置长螺旋和旋挖两种作业装置（选购项）；同时兼顾了挂各种锤的功能。

CHTC JOVE new generation Long Auger Drilling Rig absorbs the same product's advantages in worldwide and also improves the weakness of traditions domestic products. Whole machine adopt self erection frame work. No dispatches in transportation improve the efficiency in installation. The function can be altered by change the pulley combination for rotary drilling or CFG construction way. Different hammer construction way also can be realized in this machine.

运输状态

产品主要特点
Product Features

底盘结构 Undercarriage structure

底盘采用了（四边形重心可调）伸缩履带，从而既保证了整体运输的稳定性（宽度 3400mm），又满足了桩机工作状态的需要（宽度 4600mm）。整机履带伸缩全部由液压完成，快速准确。整机采用宽度 800mm 履带板，确保软地面施工的要求。

Self-extendable crawler insures stability in transportation (3400mm) and also meet construction requirement (4600mm). Crawler extend-retract operation controlled by hydraulic power which is fast and precision. 800mm width crawler could meet work in soft ground job sites.

主杆及顶部滑轮组 Main Mast and Pulley Assembly

主杆采用两节可伸缩方式。伸缩杆动作由卷扬机完成，高度有两种定位，一种是用于长螺旋（2900mm），另一种是旋挖钻机（2400mm）和挂锤。整个过程（含滑道安装）不需要人工完成。整机主杆采用稳定的三支点结构，杆底部采用了万向铰接轴承载方式，具有调整准确，结构可靠的优点。独特的三角座结构不仅担负了起架任务，而且还可完成不移动主机的情况下实现纵向调节位移的任务。主杆截面采用了刚性好的矩形结构。改变顶部滑轮组的组合方式即可分别配置长螺旋和旋挖两种作业装置。

Main mast adopts two flexible sections. Extend-retract operation guides by one winding. There are two height choices. 2900mm for CFG and 2400mm for rotary drilling and hammer. All height adjustment operation complete by machine itself. Main mast use stable three points support. Universal jointed shaft in the mast bottom which promise precision adjustment and reliable structure. Unique triangle base structure not only afford erection task but also finish side move without whole machine move. Main mast section use table rectangle structure. Allocate CFG or rotary drilling rig work by change the pulley combination.

卷扬及液压系统 Winch & hydraulic system

Machine travel, slewing and main-vice winch adopt hydraulic power control. The pull force of main winch single line reaches 10t and also configures advanced electric hydraulic drilling following system. Vice winch line's pull force reach 4t and its operation is very exactness. Add pressure winch able to offer another more 12t force. This configuration not only offer additive pressure for rotary drilling but also offer reliable technology [illegible] for break rock in DHT hammer construction way. Advanced gear pump have strong ability to resist pollution and long use life. Three pumps joint together and insures high speed when the main winch under work. One pump controls the two walk legs and avoids unbalance flow in tradition models. Fuel tank locates at the back of platform and realize simple and orderliness platform.

操控及电器部分 Operation and Electronic Parts

驾驶室前置，视线良好，方便驾驶员操作，并设有防砸网确保驾驶员安全。操控部分采用了 PLC 控制技术，钻孔深度，回转定位及垂直度由液晶屏上显示，简洁明了，操作方便。操作界面采用人机对话方式查阅和调整参数。整机无需燃油，全部使用动力电源，节能环保无排放。

Good sight for the operator as the front cab design. Anti-drop network is settled to ensure safety of the driver. Adopt PLC in operation system. Drilling depth, rotation location and vertical degree are shown on the display screen which supplies direct information to the operator. The operation platform use man-machine interaction way for check and adjust the parameters. Instead of fuel, we use electricity which is energy saving and no pollution.

主平台及回转机构 Main Platform and Slewing Mechanism

主平台采用了大截面箱型结构，承载能力大，刚性好。回转驱动部分采用了双支撑方式摆脱了老式结构回转减速机易松动及回转齿轮易损坏的弱点。平台结构简洁明了方便维修。

The main platform adopt large box-type structure section with powerful carrying capacity and rigidity. Double support in slewing driver part have the ability to avoid the rotary gear loosen or broken in traditional structure. The main platform structure is simple and easy for maintenance.

综述 Summary

本产品由电动机、电气控制柜、电气操纵箱及电气元件组成，主要用来实现电动机的启动与制动。钻机采用变频器控制，使电动机实现了"软启动和制动"，并满足了动力头和卷扬机的速度变化要求。

Light weight, flexible in movement, efficient in piling, meet different jobsites construction requirements, large torque, energy saving and no pollution. With high quality and competitive price, CHTC JOVE new generation Long Auger Drilling Rig is an excellent choice for our customers.

性价比施工首选 High performance-to-price ratio

同等性能指标情况下，整机运输重量工作重量轻，施工机动灵活，维修费用低，运行费用低（与柴油动力旋挖钻机相比，在同工况下可节省一半以上的费用）。

Under the same performance index, it has lower transport weight, more convenient for moving and transportation; lower maintenance charge, lower operate fee (Compare with diesel engine rotary drilling rig, it can save more than 50% charge)

主要技术参数（新一代）
Main Technical Parameters

规格 Specification / 型号 Model			JU132	JU160
履带工作宽度 Crawler work width (mm)			4500	4500
主机运输尺寸（长x宽x高）Transportation dimension (mm)			18500x3400x3400	18500x3400x3400
配作业装置最大负荷 Max load with operation device (T)			14	14
配钻孔机动力头 With drilling power head	功率 Power (KW)		132	160
	最大扭矩 Torque (KN/m)		150/180	180/200
钻孔深度 (m) Drilling depth	长螺旋 Long Anger	直径 800(mm) 以下 (26+6) 米	32	32
		直径 800 (mm) 以上	26	26
	旋挖钻孔直径 1500(mm)		42	42
桩架最大高度 Piling Mast height(m)			29	29
液压系统 Hydraulic system	主系统压力 (MPa)		20	20
	主泵最大流量 (L/min)		407	410
	电机功率 Motor Power (KW)		132	160
最大主提升速度 Line speed (m/min)			40	40
最大提拔力 Max extraction force (kN)			480	480
主卷扬最大拉力 Max main winch line pull (kN)			120	120
副卷扬拉力 Max auxiliary (kN)			40	40
最大行走速度 Travel speed (m/min)			12	12
最大钻孔直径 (mm)（普通土壤）长螺旋 / 旋挖 Drilling diameter (mm)			1200/1500	1200/1500
爬坡能力（运输状态）Grade ability			30%	30%
回转速度 (r/m) Rotation speed			0.4～0.8	0.4～0.8
回转角度 Slewing angle			270°	270°
运输重量 Transportation weight (kg)			47000	47500
最大行驶负荷 Max travel load (kg)			55000	55000

多功能电旋挖钻机（长螺旋）机械制图
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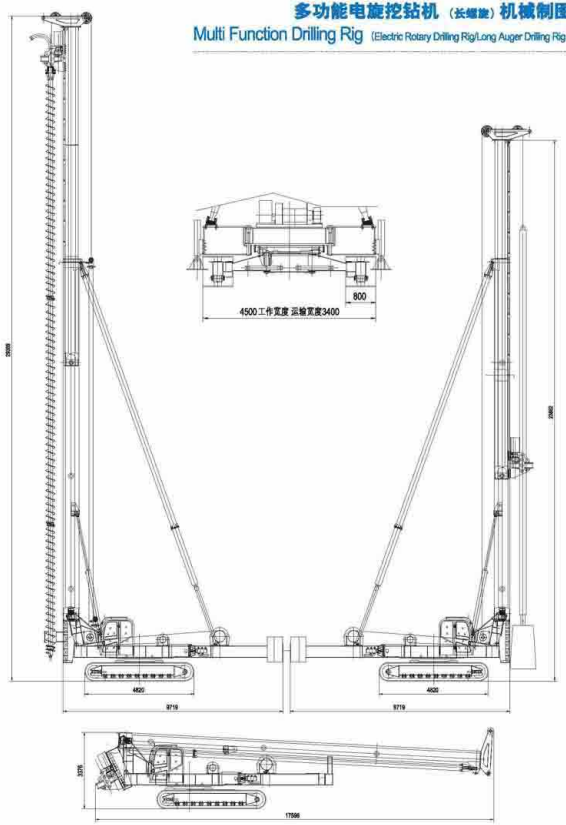

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