



恒天九五重工

CHTC JOVE HEAVY INDUSTRY CO., LTD



水平定向钻机

Horizontal Directional Drilling Rig



## 整机特点 Main Features

JVD 系列水平定向钻机是在充分吸收国内外同类产品优点的基础上研发的新型钻机。产品设计新颖、独特，技术达到国际先进水平。整机采用高性能配置，具有较高的性价比。

该机整体性能优越、外形美观、制作精细。采用液压先导控制及电液控制技术，操作方便、舒适。

采用三联泵系统，工作可靠，维修方便，维修成本低。

推拉系统采用高压齿轮泵驱动，承载能力强。

动力头采用双速系统，工作效率高。

整机外形紧凑，通过性好，机器施工、转场运输灵活方便。

Horizontal Directional Drilling Rig has researched base on absorbing domestic and international advanced technology adequately. Unique design, top brands for key parts and also advanced technology make CHTC JOVE Horizontal Directional Drilling Rig reached top international level.

These two mode's have high reliability, excellent appearance and good assembly craftwork. We adopt hydraulic pilot control and electro-hydraulic control technology, convenience operation. Using Triple pump system ensures reliable performance, easy maintenance and low cost. The push-pull system has strong resistance ability which drives by high pressure gear pump.

The power head adopt double-speed system and ensures high work efficiency.

The compacted appearance insures high access ability, convenient move between job sites.

## 用途 Functions

JVD 系列水平定向钻机是基于先进的“非开挖技术”理念设计开发的新型地下管道施工工程机械。该设备采用全液压及动力驱动技术，实现钻具的推进、回转、回扩、回缩及行走装置驱动等功能，主要用于穿越铁路、公路、建筑物、河流，以及在文化保护区、闹市区及农作物和植被保护区等不易开挖的条件下，进行供水、煤气、电力、通讯电缆、天然气、石油等管线的铺设和保护。

Horizontal Directional Drilling Rig is new underground pipe construction machinery which based on the advanced theory of the trenchless technologies. With whole hydraulic control technologies and power-drive technologies, it achieves drilling, rotating, pushing, broaching, pull-back, moving and other function easily. It widely used in cross the railway, road, building, river, downtown area, other construction-limited area, agriculture crops, for construction and renewing water supplying, coal gas, electronic, telecommunication, natural gas, etc.



银川施工现场  
Job site in Yinchuan



湖南郴州施工现场  
Job site in Chenzhou Hunan



河北沧州施工现场  
Job site in Cangzhou Hebei

## 主要技术参数 Main Technical Parameters

型号 Model	JVD200	JVD280	JVD320	JVD380	JVD450	JVD3500
<b>规格 Specifications</b>						
发动机型号 Engine Model	东风康明斯 Cummins B6TA5.9-C150(112KW)	东风康明斯 Cummins B6TA5.9-C180 (132KW)	东风康明斯 Cummins B6TA8.3-C215 (163KW)	东风康明斯 Cummins B6TA8.3-C240 (179KW)	东风康明斯 Cummins B6TA8.3-C280 (194KW)	重庆康明斯 Cummins NTA85-C400 (298KW)
整机重量 Total Weight (T)	8.9	9.6	11.5	12	13.5	49
整机外形尺寸 Overal Dimension L×W×H(mm)	6300×2100×2000	6500×2100×2000	7000×2235×2415	7000×2235×2415	8000×2296×2775	18000×3150×3400
系统电压 System Voltage (V)	24	24	24	24	24	24
<b>操作性能 Operating Performance</b>						
最大回拖力 Max Pu llback (KN)	200	280	320	380	450	3580
最大顶进力 Max Thrust (KN)	160	202	220	380	450	3580
最大扭矩 Max Torque (N · M)	7000	12000	14500	15500	18000	110000
主轴转速 Spindle Speed (r/min)	0~110	0~110	0~100	0~100	0~100	38(80)
入射角 Incident Angle (°)	10~20	10~20	10~20	10~20	8~20	8~18
行走速度 Travel Speed (km/h)	0~1.5	0~1.5	0~2.8	0~2.7	0~2.5	0~1.5
爬坡能力 Grade Ability (°)	25	25	25	25	20	20
<b>钻具 Drilling Tools</b>						
钻杆直径 Diameter of Drill Pipe (mm)	60	73	73	73	89	140
钻杆长度 Length of Drill Pipe (m)	3	3	3	3	4.5	9.6
回扩孔头直径 Backreaming Diameter (mm)	200~600	300~800	300~800	300~900	400~1100	500~1600
<b>泥浆 Pump</b>						
泥浆泵最大压力 Max Pressure (MPa)	9	9	8	8	8	8
泥浆泵最大流量 Max Flow Rate (L/min)	240	240	320	350	450	450
<b>泥浆混配系统(选配) Mud Mixing System(optional)</b>						
泥浆系统型式 Mud System Type	整体式Integral type	整体式Integral type	整体式Integral type	整体式Integral type	整体式Integral type	整体式Integral type
泥浆罐容量 Mud Tank Capacity (m <sup>3</sup> )	2	2	3	3	3	3
泥浆外形尺寸 Dimension of Mud Tank(L×W×H)(mm)	2250×1300×1450	2250×1300×1450	2450×1400×1550	2450×1400×1550	2450×1400×1550	2450×1400×1550