

HDL-100C 型 顶驱式多功能钻机

HDL系列钻机是我公司根据市场需要，针对复杂地层研发的顶驱式多功能钻机。
HDL series drilling rig is top drive type multifunctional drilling rig which our company design and manufacture for complex formation according to market request.



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微型钻机
Compact flexible



主要施工特点：

- 1、整机全液压控制，动力头采用双液压马达驱动，输出扭矩大，具备钻机复杂地层和处理事故的能力，满足大部分地层的施工要求；
- 2、动力头带有大功率顶部冲击，不用潜孔锤和空压机就可以达到冲击钻进的效果；
- 3、全方位变角机构的调节，使对孔方便，可调节范围广，降低对工作面的要求；
- 4、体型小巧，移机灵活，可以满足地下室、室内、隧道等狭小空间的施工需求；
- 5、配套跟管钻进钻具，可实现套管护壁施工；配套注浆钻具，可实现钻孔注浆一次完成，减少材料消耗；
- 6、施工应用：隧道超前探孔、溶洞治理、微扰动注浆、房屋纠偏等施工工艺；适用于：基坑、控制建筑物位移、隧道、地下室等工程领域施工。

主要技术参数/Main technique specifications:

使用性能	Parameters	HDL-100C
重量	Weight	8700 kg
运输尺寸	Transport dimension	6900*2100*3000 mm
垂直施工尺寸	Vertical working dimension	5600*2100*6900 mm
行走速度	Walking speed	1600/1100 m/h
最大扭矩	Max torque	8000 N·m
最大转速	Max speed	110 r/min
最大冲击功	Max impact power	650 N·m
最大冲击频率	Max impact frequency	2300 bpm
螺纹输出	Threaded output	H92
钻孔角度	Hole angle	-15~105°
钻杆直径	Rod diameter	φ73~φ250 mm
举升高度	Lifting height	3500 mm
卷扬最大提升重量	Winch max lifting weight	1000 kg
爬坡角度	Climbing angle	25°
发动机功率	Engine	110 kW (柴动 Diesel)
系统压力	System pressure	28 MPa
柴油箱容积	Fuel tank	90 L
液压油箱容积	Hydraulic oil tank	250 L
动力头行程	Feed stroke	4400 mm
滑移行程	Slide stroke	900 mm
给进力	Feeding force	40 kN
给进速度	Feeding speed	0~9 m/min
提升力	Lifting force	40 kN
提升速度	Lifting speed	0~9 m/min

Main characters:

- 1、Whole rig is fully hydraulic controlled, and the drifter is driven by double hydraulic motors with high output torque, which has the ability of drilling complex strata and dealing with accidents, and meets most of construction requirements;
- 2、Drifter has high power percussion, which can achieve impacting drilling without DTH hammer and air compressor;
- 3、Omnidirectional variable angle mechanism, convenient to align the holes, can be adjusted in a wide range, reducing the requirements of the working surface;
- 4、Compact size, flexible movement, meet needs of construction of basement, indoor, tunnels and other narrow space;
- 5、Complementary with pipe drilling tools, can realize casing wall construction; complementary with grouting drilling tools, can realize drilling and grouting completed in one time, reduce material consumption;
- 6、Construction application: tunnel overrun probe hole, solution hole management, micro-disturbance grouting, house correcting and other construction processes; applicable to: foundation pit, control building displacement, tunnels, basements and other engineering fields of construction.