

CYTC115型矿用液压采矿钻机 / CYTC115 Hydraulic Mining Drilling Rig

用途及特点 / Application and Features

CYTC115型矿用液压采矿钻机可主要用于中深孔采矿凿岩破孔，也可用于锚索支护钻孔。适用巷道高度3.5m-5m，宽度3.5m-5m。钻臂支座360度翻转，配合摆臂机构和平移导轨，可实现360度钻孔和3米范围平行钻孔（水平和向下方向钻孔需要额外的压缩空气用来排渣，详情请咨询厂家），能满足各种采矿钻孔要求。

CYTC115 Hydraulic mining drilling rig is mainly used for blast drilling of medium-length hole mining and supporting drilling of anchor cable. Both the applicable height and width of tunnels fall in the range of 3.5m-5m. The support for the drill boom is capable of 360-degree rotation. In combination with swing boom and translational guide rail, it is capable of 360-degree drilling and parallel drilling within three meters (Horizontal and downward drilling requires additional compressed air for slag removal, please consult the manufacturer for details), thus meeting the requirements of various mine drillings.

- 自动换杆系统可以容纳27根钻杆，最大钻深可达42米。
- The automatic rod-changing system has a storing capacity of 27 drill rods and the drilling depth can reach as far as 42 meters.
- 推进梁前后液压顶尖支撑，保证钻孔过程的稳定性。带有扶杆油缸，最大限度保持钻孔直线度。
- The front and rear of the advancing beam are fitted with hydraulic supporting cylinders for smooth drilling. It is fitted with the hydraulic rod oil cylinder and thus ensures the drilling straightness as good as possible.
- 采用手推车式操作台，视线良好，也可选配无线遥控器。
- The trolley-type workbench with a good sight is adopted; and the wireless remote controller can serve as an option.
- 闭式液压驱动铰接式矿用底盘，适用于中小尺寸的巷道。
- The articulated mining chassis of closed hydraulic drive is suitable for small and medium-sized tunnels.
- 高频冲击凿岩机采用梯级活塞优化了冲击波传递效率，提高钻进速度，降低钎具消耗并提高设备的完好率。
- The stepped piston is used for the high-frequency impacting rock drill and this can improve the transmission efficiency of impact wave and drilling speed and reduce the consumption of drilling tools and make it in good condition.



技术参数 / Technical Parameters

外形尺寸与重量 / Dimensions and weight		风路水系统 / Air & water system			
长度 / Length	9700mm	空压机 / Air compressor	1xJN5.5	润滑油耗油量 Oil Consumption of lubrication	180-250 g/h
宽度 / Width	2300mm	排量 / Capacity of air compressor	0.7 m ³ /min	水泵功率 Power of water pump	4kW
高度 / Height	3300 mm	压力 / Pressure	6-8bar	电脉冲润滑泵 Electronic pulse lubrication pump	
重量 / Weight	约16000 kg / Appr. 16000kg	钎尾润滑装置 Device of shank lubrication		水泵排量 Capacity of water pump	5.8m ³ /h
行驶速度（水平） Tramming speed on flat ground	10km/h	润滑油气量 Air consumption of lubrication	0.3 m ³ /min		
最大爬坡能力 Maximum climbing capacity	25% (14°)	底盘 / Chassis			
安全防护 / Safety protection		柴油机 Diesel engine	Cummins B3.9C54-80C 59KW/2500rpm	转向机构 Steering mechanism	±40°铰接转向 Articulated steering: ±40°
噪音水平 / Noise level	< 100dB(A)	传动系统 Drive system	四轮驱动闭式行走系统 Closed travelling system of four-wheel drive	行走制动 Travelling braking	双回路液压制动器 Double-circuit hydraulic brake
可升降安全顶棚 Lifting safety roof	FOPS & ROPS认证	摆动角 Swing angle	后桥摆动±10° Swing of rear axle: ±10°	驻车制动 Parking braking	减速器多盘湿式制动器 Wet multidisc brake of reducer
		轮胎 / Tires	12.00-20	燃油箱 Fuel tank	60L
钻进系统 / Drilling system			电动液压泵站 / Electric hydraulic power unit		
凿岩机型号 / Model of rock drill	HC95LQw / YYG22U	HC112LH	电动机 / Motor	75kW	90kW
冲击功率 / Impact power	24KW / 22KW	26KW	冲击 / 推进 / 钻臂 Impact / Feed / Positioning	轴向变量柱塞泵 Axial variable displacement piston pump	
频率 / Impact Frequency	57Hz / 53Hz	46Hz	回转 / Rotation	齿轮泵 / Gear pump	
扭矩 / Torque	955Nm / 1550Nm	1342Nm	过滤精度 / Filter fineness	10 μ	
孔径 / Hole diameter	64-102mm	64-127mm	液压油箱 / Hydraulic oil tank	240L	
钻杆螺纹 / Thread of drill rod	T38、T45	T51	液压冷却器 / Hydraulic cooler	水冷散热器 / Water cooler	
钻孔深度 / Drilling depth	42m		工作电压 / Working voltage	380V	
推进梁俯仰 / Pitch angle of advancing beam	前俯20°，后仰65° / Front: 20°, back: 65°		频率 / Frequency	50Hz	
环形工作角度 / Ring angle	360°		启动方式 / Starting method	星-三角 / Star-triangle	
垂直孔范围 / Rang of Parallel holes	左右各1500mm / 1500mm each side				
钻杆长度 / Length of drill rod	1525mm	1830mm			
推进梁长度 / Length of advancing beam	3500mm	3800mm			
推进梁补偿行程 / Feed extension	1200mm	1200mm			

