

## KJ212型全液压掘进钻车 / KJ212 Hydraulic Tunneling Drilling Rig

### 用途及特点 / Application and Features

KJ212型全液压掘进钻车可以钻凿垂直、倾斜和水平的炮孔，专为低矮巷道设计，通过断面2.5m\*1.5m，适用于3.5m\*1.8m-5m\*4.8m断面的巷道掘进作业。

KJ212 hydraulic tunneling drilling rig used to drill vertical, inclined and horizontal blast holes in low tunnels. Through the section (2.5m\*1.5m), the drill rig is suitably qualified for any tunnels whose section falls in the range of 3.5m\*1.8m-5m\*4.8m.

- 坚固可靠的万向大臂具有最佳断面覆盖形状，推进梁360° 翻转和自动持平便于快速方便地实现钻孔定位；
- The firm flexible boom is capable of optical coverage of the section; 360° rotation and self-leveling beam make drill positioning easy;
- 大臂同时还可用于侧向开石门和锚杆钻孔作业；
- The boom can also be used for the drilling of lateral cross-cut and rock bolting;
- 钻车布置确保操作手视野良好；
- The drill rig provides a good view for the operator;
- 布置平衡，强劲有力的四轮驱动铰接底盘确保在狭窄巷道中能够灵活，快速，安全行驶；
- Balanced layout and the articulated chassis of four-wheel drive ensure the flexible, fast and safe driving in the narrow tunnel;
- 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;
- 宽敞的作业空间和一系列自动功能有助于司机集中精力安全、快速、准确地钻进；
- Considerable space and automatic functions enable the driver to concentrate on drilling in a safe, fast and accurate manner;
- 各个维修保养部位均受到良好的保护，同时又易于维护保养；
- All the relevant parts are kept in good protection, meanwhile maintenance easily.

## 技术参数 / Technical Parameters

外形尺寸与重量 / Dimensions and weight		风水路系统 / Air & water system			
长度 / Length	11160mm	空压机 /Air compressor	1×JN4	润滑耗油量 Oil Consumption of lubrication	180-250g/h
宽度 / Width	2000mm	排量 /Capacity of air compressor	0.5m <sup>3</sup> /min		
高度 / Height	1465/1985mm	压力 /Pressure	6-8bar	水泵功率 Power of water pump	1.5kW
重量 / Weight	约11000kg /Appr. 11000 kg	钎尾润滑装置 Device of shank lubrication	电磁脉冲润滑泵 Electronic pulse lubrication pump		
行驶速度 (水平) Tramming speed on flat ground	10km/h	润滑耗气量 Air consumption of lubrication	0.3 m <sup>3</sup> /min	水泵排量 Capacity of water pump	3m <sup>3</sup> /h
最大爬坡能力 Maximum climbing capacity	25%( 14° )	<b>底盘 / Chassis</b>			
<b>安全防护 / Safety protection</b>		柴油机 Diesel engine	Cummins QSB3.9-C80-31 60KW, 2200rpm	轮胎 /Tires	300-15
噪音水平 / Noise level	< 100dB(A)	尾气净化 Exhaust purification	尾气催化器 /Exhaust catalyst	转向机构 Steering mechanism	± 35° 铰接转向 Articulated steering: ±35°
可升降安全顶棚 Lifting safety roof	FOPS & ROPS认证	传动系统 Drive system	四轮驱动闭式行走系统 Closed hydraulic system for four-wheel driving	驻车制动 Parking braking	多片式制动器 Multidisc brake
		摆动角 Swing angle	后桥摆动 ± 6° Swing of rear axle: ±6°	紧急制动 Emergency braking	
				燃油箱 Fuel tank	30L
<b>钻进系统 / Drilling system</b>			<b>电动液压泵站 / Electric hydraulic power unit</b>		
凿岩机 /Rock drill	HC50	电动机 /Motor		45kW	
钎尾尺寸 /Rod size	R38	冲击/推进/钻臂 /Impact /Feed/ Positioning		轴向变量柱塞泵 Axial variable displacement piston pump	
冲击功率 /Impact power	13kW	回转 /Rotation		齿轮泵 /Gear pump	
频率 /Impact Frequency	62Hz	过滤精度 /Filter fineness		10 μ	
孔径 /Hole diameter	Φ32-76mm	液压油箱 /Hydraulic oil tank		240L	
推进梁翻转 /Beam rotation	360°	液压冷却器 /Hydraulic cooler		水冷却器 /Water cooler	
推进梁补偿行程 /Feed extension	1600mm	工作电压 /Working voltage		380V	
钻臂型号 /Model of drill boom	K 20	频率 /Frequency		50Hz	
钻臂形式 /Form of drill boom	自动持平 /Self-leveling	启动方式 /Starting method		星-三角 /Star-triangle	
钻臂伸缩 /Boom extension	1200mm	电缆规格 /Cable specifications		3×35+3G6	