

KJ215型全液压掘进钻车 / KJ215 Hydraulic Tunnelling Drilling Rig

用途及特点 / Application and Features

KJ215型全液压掘进钻车用于采矿准备工作和隧道掘进，是独立作业的液压凿岩台车，可以钻凿垂直、倾斜和水平的炮孔；适用于5-25m²断面的硬岩掘进作业。

KJ215 hydraulic tunnelling drilling rig used for mining preparations and tunneling, it is an independent working drill rig. It can be used for drilling vertical, inclined and horizontal blast hole, suitable for the hard-rock of any section in the range of 5-25m².

- 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	10220mm	空压机 / Air compressor	1 × JN4	润滑油油量 Oil Consumption of lubrication	180-250g/h
宽度 / Width	1400mm	排量 / Capacity of air compressor	0.5m ³ /min	水泵功率 Power of water pump	1.5kW 4kW
高度 / Height	2000/2850 mm	压力 / Pressure	6-8bar	水泵排量 Capacity of water pump	3m ³ /h 6m ³ /h
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 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 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	±40° 铰接转向 Articulated steering: ±40°
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	多片式湿式制动器 Wet multidisc brake
		摆动角 Swing angle	后桥摆动 ± 6° Swing of rear axle: ±6°	行走制动 Travelling braking	静液压制动 Hydrostatic braking
				燃油箱 Fuel tank	30L
钻进系统 / Drilling system			电动液压泵站 / Electric hydraulic power unit		
凿岩机 / Rock drill	HC50	RD 18U/HC95SA	电动机 / Motor	45kW	55kW
钎尾尺寸 / Rod size	R38	R38、T38	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	18kW	回转 / Rotation	齿轮泵 / Gear pump	
频率 / Impact Frequency	62 Hz	57 Hz / 52 Hz	过滤精度 / Filter fineness	10 μ	
孔径 / Hole diameter	Φ32-76mm	Φ35-102mm	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 21		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	
			电缆规格 / Cable specifications	3 × 35+3G6	3 × 50+3G6