KJ421型全液压掘进钻车 / KJ421 Hydraulic Tunneling Drilling Rig

用途及特点 / Application and Features

KJ421型全液压掘进钻车适用于16-68平方米断面的隧道掘进作业,可以钻凿垂直、倾斜和水平的爆破孔和锚杆孔。

The KJ421 hydraulic tunneling drilling rig is suitably qualified for the drilling of tunnels whose section falls in the range of 16-68 square meters, capable of drilling the blast hole and rock bolting in a vertical, inclined and horizontal way.

- 钻车采用对称布置的两套直角坐标万向钻臂,没有作业盲区。推进梁360度翻转和自动持平便于快速方便地实现钻孔定位,同时还可用于侧向开石门和锚杆钻孔作业。
- The drilling rig is fitted with the flexible boom in two symmetric rectangular coordinates, without any operation blind spot. 360° rotation and self-leveling beam make drill positioning easy; it can also be used for the drilling of lateral cross-cut and rock bolting.
- 钻车布置确保司机视野良好;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;
- The drilling rig provides a good view for the operator; 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安好率;
- 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	13000mm		空压机 /Air compressor		1×JN11	润滑耗油量		0 400 050 #	
宽度 / Width	2200mm		排量/Capacity of air compr		1.55 m³/min	Oil Consum lubrication	ption of	2 × 180-250 g/h	
高度/ Height	2400/3100 mm		压力/Pressure		8 bar	1.54+			
重量 / Weight	约22000 kg/Appr. 22000 kg		钎尾润滑装置 Device of shank lubrication		电子脉冲润滑泵	水泵功率 Power of water pump		7.5kW	
行驶速度(水平) Tramming speed on flat ground	10km/h				Electronic pulse lubrication pump	水泵排量 Capacity of water pump		10m³/h	
最大爬坡能力 Maximum climbing capacity	25%(14°)		润滑耗气量 Air consumption of lubrication		2 × 0.3 m³/min				
安全防护 / Safety protection			底盘 / Chassis						
噪音水平 / Noise level	<100dB(A)		柴油机 Diesel engine	Cummins QSB3.9-C125 /93kW/2200rpm		行走制动 Travelling braking		桥内湿式制动器 Wet bridge brake	
可升降安全顶棚	FOPS & ROPS认证		尾气净化 Exhaust purification	尾气催化	尾气催化器/Exhaust catalyst		king	机械制动器 Mechanical brake	
Lifting safety roof			传动系统 Drive system		三器+变速箱 c torque converter ox	燃油箱 /Fuel tank		120L	
钻进系统 / Drilling system					电动液压泵站 / Electric hydraulic power unit				
凿岩机 /Rock drill		2 × RD 22U/HC95LM		电起	电动机 /Motor		2×75kW三相电机/three-phase motor		
钎尾尺寸/Rod size		R38、T38		冲击	冲击/推进/钻臂 /Impact /Fee		M 中 中 中 中 中 中 中 中 中 中 中 中 中 中 中 中 中 中 中		
冲击功率 /Impact power		22kW/21kW		回车	回转/Rotation		齿轮泵/Gear pump		
频率 /Impact Frequency		53 Hz/ 62 Hz		过滤精度 /Filter fineness			10 μ		
孔径 /Hole diameter		Φ42-102mm		液压油箱 /Hydraulic oil tank			400 L		
推进梁翻转/Beam rotation		360°		液原	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	工作电压/Working voltage			380V	
钻臂型号 /Model of drill boom		K40		频率	频率/Frequency			50Hz	
钻臂形式 /Form of drill boom		自动持平/Self-leveling		启z	启动方式 /Starting method			星-三角 /Star-triangle	
钻臂伸缩 /Boom extension		1800mm		电缆	电缆规格/Cable specifications			3×120+3G25	