

KSJ21型矿用液压采矿钻机

KSJ21 Hydraulic Mining Drilling Rig

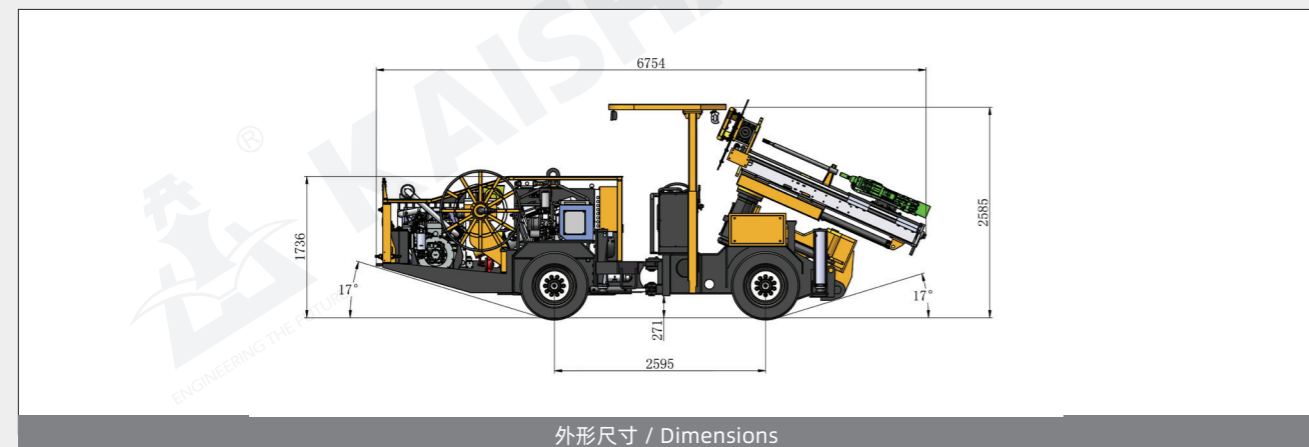


用途及特点 / Application and Features

KSJ21型矿用液压采矿钻机可主要用于中深孔采矿钻凿爆破孔，也可用于锚索支护钻孔。适用巷道高度2.9m-4m，宽度2.8m-4.5m。推进梁360°翻转，配合摆臂机构和平移功能，可实现360度钻孔和平行钻孔（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），能满足多种采矿钻孔要求。

KSJ21 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 height 2.9m-4m, width 2.8m-4.5m. 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 (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.

- 经济钻孔深度可达35米，可选配27+1自动接卸杆模块（钻杆长915mm，自动接杆深度25米），实现单人操作；
- Economical drilling depth up to 35 meters, optional 27+1 automatic receiving and unloading rod module (drill pipe length 915mm, automatic receiving rod depth 25 meters), to achieve single-person operation.
- 配备重型铝合金中深孔专用推进梁，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；
- Heavy-duty aluminum alloy medium and deep hole special propulsion beam, front and rear hydraulic center support, ensure the stability of drilling process. With rod oil cylinder, maximum straightness of borehole is maintained.
- 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.
- 闭式液压驱动交接式矿用底盘，车宽1.6米，适用于中小尺寸的巷道；
- The articulated mining chassis of closed hydraulic drive, The rig is 1.6m wide 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		风水路系统 / Air & water system			
长度 / Length	6750mm	空压机 / Air compressor	DLGF 0.7/8-5.5(B)	润滑油油量 Oil Consumption of lubrication	180-250 g/h
宽度 / Width	1600mm	排量 / Capacity of air compressor	0.7 m³/min	水泵功率 Power of water pump	4kW
高度 / Height	2580/3000mm	压力 / Pressure	6-8bar	水泵排量 Capacity of water pump	5.8m³/h
重量 / Weight	约11000 kg / Appr. 11000kg	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 m³/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 B3.9CS4-80C 59KW/2500rpm	转向机构 Steering mechanism	±36°铰接转向 Articulated steering: ±36°
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	静液压制动 Hydrostatic braking
可升降安全顶棚 Lifting safety roof	FOPS & ROPS认证	摆动角 Swing angle	后桥摆动±6° Swing of rear axle: ±6°	驻车制动 Parking braking	多片式湿式制动器 Wet multidisc brake
		轮胎/Tires	300-15	燃油箱 Fuel tank	30L
钻进系统 / Drilling system			电动液压泵站 / Electric hydraulic power unit		
凿岩机型号 / Model of rock drill	HC95LQw / RD22U	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	10μ	
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	水冷却器 / Water cooler	
钻孔深度 / Drilling depth	35m (自动接杆25m)		工作电压 / Working voltage	380V	
推进梁俯仰 / Pitch angle of advancing beam	前俯30°, 后仰65° / Front: 30°, 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	1640mm				
钻杆长度 / Length of drill rod	1000mm (自动接杆915mm)				
推进梁长度 / Length of advancing beam	2770mm				
推进梁补偿行程 / Feed extension	700mm				

