

KJ422型全液压掘进钻车

KJ422 Hydraulic Tunnelling Drilling Rig

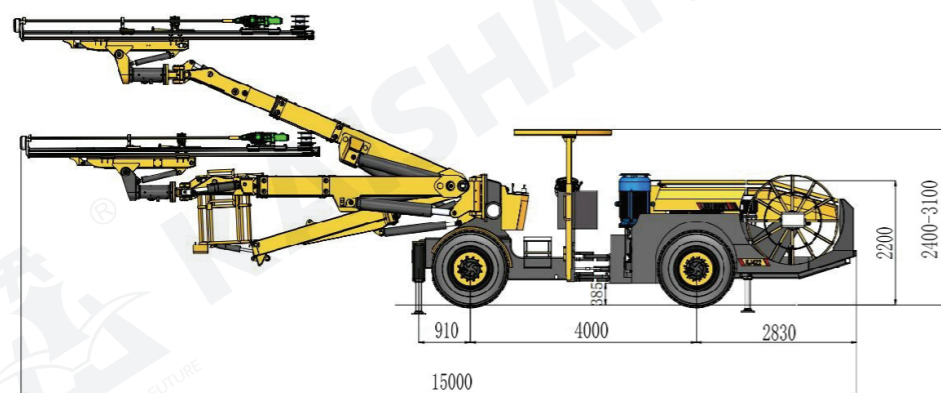


用途及特点 / Application and Features

KJ422型全液压掘进钻车适用于16-95m²断面的隧道掘进作业，可以钻凿垂直、倾斜和水平爆破孔和锚杆孔。

KJ422 hydraulic tunnelling drilling rig is suitably qualified for the drilling of tunnels whose section falls in the range of 16-95 square meters, capable of drilling the blast hole and rock bolting in a vertical, inclined and horizontal way.

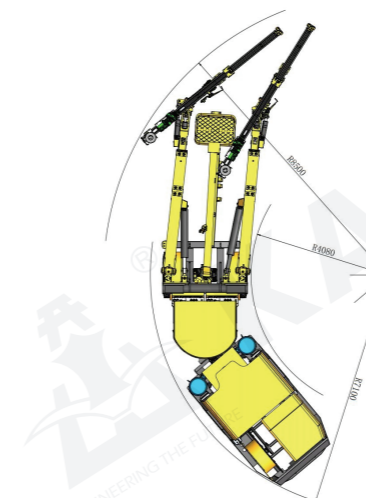
- 钻车采用对称布置的两套直角坐标万向钻臂，没有作业盲区。推进梁360度翻转和自动持平便于快速方便地实现钻孔定位，同时还可用于侧向开石门和锚杆钻孔作业；
- The drilling rig is fitted with the flexible boom in two symmetric rectangular coordinates, without any operation blind spot. 360° rotation and self-leveling beam make drill positioning easy; it can also be used for the drilling 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，安全地行驶；
- 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 easy to maintain.



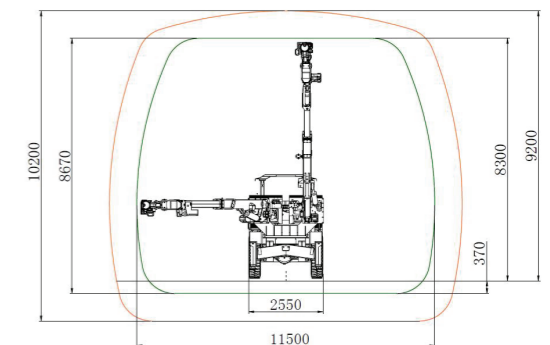
外形尺寸 / Dimensions

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 | 15000 mm | 空压机 / Air compressor | DLGF 1.5/8-11(B) | 润滑油油量 Oil Consumption of lubrication | 2x180-250g/h |
| 宽度 / Width | 2550 mm | 排量 / Capacity of air compressor | 1.55m ³ /min | 水泵功率 Power of water pump | 7.5kW |
| 高度 / Height | 2400/3100 mm | 压力 / Pressure | 8bar | 水泵排量 Capacity of water pump | 10m ³ /h |
| 重量 / Weight | Appr. 28000 (excluding the workbench) | 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 | 2x0.3m ³ /min | | |
| 最大爬坡能力 Maximum climbing capacity | 25% (14°) | | | | |
| 安全防护 / Safety protection | | 底盘 / Chassis | | | |
| 噪音水平 / Noise level | < 100dB(A) | 柴油机 Diesel engine | Cummins QS85.9-C160 /119kW/2200rpm | 行走制动 Travelling braking | 桥内湿式制动器 Wet bridge brake |
| 可升降安全顶棚 Lifting safety roof | FOPS & ROPS认证 | 传动系统 Drive system | 液力变矩器+变速箱 Hydraulic torque converter +gearbox | 驻车制动 Parking braking | 机械制动器 Mechanical brake |
| | | | | 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 | 2XHC95LMH / RD22U | 电动机 / Motor | 2x75kW | | |
| 钎尾尺寸 / Rod size | 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 | 21KW / 22KW | 回转 / Rotation | 齿轮泵 / Gear pump | | |
| 频率 / Impact Frequency | 62Hz / 53Hz | 过滤精度 / Filter fineness | 10μ | | |
| 孔径 / Hole diameter | Φ42-102mm | 液压油箱 / Hydraulic oil tank | 400L | | |
| 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 50 | 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 | 2500mm | 电缆规格 / Cable specifications | 3x120+3G25 | | |



转弯示意 / Turning Diagram



断面示意 / Coverage area