

品质开山 行业典范

Kaishan's Quality – Setting The Standard For The Industry



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开山重工

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开山全液压钻车系列

KAISHAN
BRAND HYDRAULIC DRILL SERIES



2025中国矿山工程机械专业化制造商50强
Top 50 specialized construction and mining machinery manufacturer in China in 2025

《潜孔冲击器和潜孔钻头》国家标准起草单位
National standards drafting unit of DTH hammer and Drill Bits

《全液压掘进钻车》行业标准起草单位
Drafting Body of Industrial Standards for "Full-hydraulic Drill Rig"

《轮胎式液压掘进钻车》行业标准起草单位
Drafting Body of Industrial Standards for "Wheel-type Hydraulic Drill Rig"

浙江省创新型中小企业
Innovative Small and Medium sized Enterprises in Zhejiang Province

高新技术企业
Hi-tech Enterprise

《履带式露天潜孔钻车》行业标准起草单位
Drafting Body of Industrial Standards for "Track Down-hole Drill Rig for Open Use"

《导轨式液压凿岩机》行业标准起草单位
Drafting Body of Industrial Standards for "Guideway Hydraulic Rock Ril"

《履带式露天液压钻车》行业标准起草单位
Drafting Body of Industrial Standards for "Track Hydraulic Drill Rig for Open Use"

浙江省“专精特新”中小企业
Zhejiang "Specialised, Sophisticated, Unique and Innovative" Small and Medium Enterprises

KAISHANG HEAVY INDUSTRY PROFILE» 企业介绍



浙江开山重工股份有限公司系开山集团骨干成员公司，其前身创建于1956年，是一家拥有超过60年历史的专业凿岩设备制造企业。

开山集团是浙江省人民政府重点培植的工业行业龙头企业、浙江省首批确定的38家“三名”企业和“雄鹰”计划培育企业。先后被中国机械工业联合会命名为“中国机械工业优秀企业”和“中国机械工业节能减排创新型企业”，连续15年获得“中国工业企业百强企业”称号。在浙江衢州、上海浦东、重庆双桥、广东佛山、湖北宜昌和美国、奥地利、澳大利亚及台中、奥卡拉、孟买、迪拜、华沙、胡志明市等拥有72家子公司、15个制造基地、研发中心和销售中心，产品覆盖国内34个省市区和全球90多个国家和地区。

浙江开山重工股份有限公司系高新技术企业，拥有完整的机械制造体系，精密机械加工及检测设备配套完善。产品有小型手持式气动凿岩机，分体式、一体式全系列露天潜孔钻车，全液压系列掘进钻车、锚杆钻车、撬毛台车和采矿钻车，以及胶管、钎头、冲击器、钻杆、气动工具等，其中地下矿山开采设备全谱系取得国家矿用产品安全标志认证。产品广泛应用于矿石开采、土石方工程和基础建设等领域。先后多次荣获国家、省市级科技奖项，被推荐为替代进口产品。

浙江开山重工股份有限公司拥有四十多项发明专利及实用新型专利，并参与《潜孔冲击器和钻头》国家标准、《全液压掘进钻车》、《履带式露天液压钻车》、《轮胎式液压掘进钻车》、《履带式露天潜孔钻车》、《导轨式液压凿岩机》行业标准的起草和制订，被评为标准化工作先进单位。

以“做一流产品、创一流服务”为经营理念，浙江开山重工股份有限公司致力于成为一家拥有自主知识产权、掌握一流核心技术、从事高端制造的先进装备制造企业。

Founded in 1956, Zhejiang Kaishan Heavy Industry Co., Ltd. is a specialized rock drilling equipment manufacturer with a history of more than 60 years and an important subsidiary of the Kaishan Group.

Kaishan Group is a leading enterprise in the industrial sector with its development as the key focus of the People's Government of Zhejiang Province, one of the first batch of the thirty-eight "All Famous" enterprises and the focus enterprise in the "Eagle" plan of Zhejiang Province. It is named as "Outstanding Enterprise in China Machinery Industry" and then "Innovative Machinery Industry Enterprise of Energy Saving and Emission Reduction of China" by China Machinery Industry Federation, and has been selected as one of the "Top 100 Industrial Enterprises of China" for 15 consecutive years. It has 72 subsidiaries, 15 manufacturing bases, R&D centers and sales centers in China (including Quzhou, Zhejiang; Pudong, Shanghai; Shuangqiao, Chongqing; Foshan, Guangdong; Yichang, Hubei; Taichung, Taiwan), USA, Austria, Australia, Ocala, Bombay, UAE (Dubai), Poland (Warsaw) and Vietnam (Ho Chi Minh City), with its products covering 34 provinces and cities in China and more than 90 countries and regions around the world.

Zhejiang Kaishan Heavy Industry Co., Ltd. is a high-tech enterprise with the complete machinery manufacturing system and the whole set of precision machining and testing equipment. Its products include small hand-held pneumatic rock drills, full series of split-type and integrated open-air DTH Drill Rigs, full hydraulic series of Tunneling Jumbos, Anchor Drilling Rigs, Scaling Rigs and Mining Drill Rigs, as well as rubber hoses, drill bits, impactors, drill pipes, pneumatic tools, etc. Among them, the full spectrum of the underground mining equipment has been certified with the national mining product safety mark. The products are widely used in the fields of mining, earthwork construction, infrastructure, etc. and have won national, provincial and municipal science and technology awards for many times, recommended as import product substitutes.

Zhejiang Kaishan Heavy Industry Co., Ltd. has more than 40 invention patents and new practical product patents. It was involved in the drafting and formulation of the national standards of DTH Impactors and Drill Bits, Full-Hydraulic Drilling Rig, Crawler-Type Open-Air Hydraulic Drilling Rig, Tire Type Hydraulic Drilling Rig, Crawler-Type Open-Air DTH Drilling Rig and Guide Rail Hydraulic Rock Drills, recognized as a leading corporation of standardization.

Guided by the business ideology of "Deliver First Class Product and Service", Zhejiang Kaishan Heavy Industry Co., Ltd. is committed to becoming an advanced equipment manufacturing enterprise with independent intellectual property rights, first-class core technology and high-end manufacturing.



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Kaishan's quality - setting the standard for the industry



开山重工服务网点遍及全国各省市，产品销往世界60多个国家和地区。在矿山井下、隧道工程、高海拔地区等恶劣工况条件下，开山钻车以其稳定可靠、节能高效以及环境适应性强等特点受到众多海内外客户的青睐与好评。

In addition to the service network operating across cities, regions, and provinces in China, Kaishan Heavy Industry markets its products to more than 60 countries and regions in the global market. Despite severely adverse conditions, including underground mining operations, tunnel engineering, and high altitude operations, Kaishan Heavy Industry's drilling trucks demonstrate such favorable features as strong stability, reliability, energy-efficient performance, and environmental adaptation, which attracts attention from overseas clients.





KJ212i型智能掘进钻车（地下凿岩机器人） / KJ212i Intelligent tunneling drilling rig (rock-drilling robot underground)

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面/Operating range : 3.5×2.4-9×5.8m



KJ311i型智能掘进钻车（地下凿岩机器人） / KJ311i Intelligent tunneling drilling rig (rock-drilling robot underground)

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面/Operating range : 3.5×3.5-9×5.8m



KJ211型矿用液压掘进钻车 / KJ211 Hydraulic Tunnelling Drilling Rig

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面/Operating range : 2.5×2.5-5×4.3m



KJ212型矿用液压掘进钻车 / KJ212 Hydraulic Tunnelling Drilling Rig

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面/Operating range : 3.5×1.8-5×4.8m

3.5×2.5-6.5×5m



KJ311型矿用液压掘进钻车/KJ311 Hydraulic Tunnelling Drilling Rig

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面/Operating range : 3.5×3-6.5×5.5m



KJ314 型矿用液压掘进钻车(二次破碎) / KJ314 Hydraulic Tunnelling Drilling Rig (Secondary Crushing)

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面/Operating range : $\geq 2.6 \times 2.6$ m



KJ321/KJ421/KJ422型矿用液压掘进钻车 / KJ321/KJ421/KJ422 Hydraulic Tunnelling Drilling Rig

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面/Operating range : 3×4-7.3×6.5m

4×4-8.7×7.8m

4×4-11.5×9.2m



KM211/KM311型矿用液压锚杆钻车 / KM211/KM311 Hydraulic Rock Bolting Rig

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面宽度/Width of tunnel : ≥ 3 m

适用断面高度/Height of tunnel : ≥ 3 m

锚杆长度/Lenght of bolt rod : 根据客户需求/According to the needs of the user



KSJ21型矿用液压采矿钻车 / KSJ21 Hydraulic Mining Drilling Rig

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面宽度/Width of tunnel : 2.8-4.5m

适用断面高度/Height of tunnel : 2.9-4m

钻孔深度/Drilling depth : 35m



KS311/KS313型矿用液压采矿钻车 / KS311/KS313 Hydraulic Mining Drilling Rig

适用坡度/Climbing capacity : $\leq 14^\circ$

适用断面宽度/Width of tunnel : 3.5-5m

适用断面高度/Height of tunnel : 3.5-5m

钻孔深度/Drilling depth : 42m



KSQ31型矿用潜孔钻机 / KSQ31 Downhole Mining Drilling Rig

适用坡度/Climbing capacity : $\leq 20^\circ$

适用断面宽度/Width of tunnel : 3.2-8m

适用断面高度/Height of tunnel : 3.2-5m

钻孔深度/Drilling depth : 50m



KQ311型撬毛台车 / KQ311 Hydraulic Scaling Rig

适用坡度/Climbing capacity : $\leq 14^\circ$

最大工作高度/Maximum working height : 8.3m

最大工作宽度/Maximum working width : 8.8m



KJ212i型智能掘进钻车（地下凿岩机器人）

KJ212i Intelligent Tunnelling Drilling Rig (Rock-drilling Robot Underground)

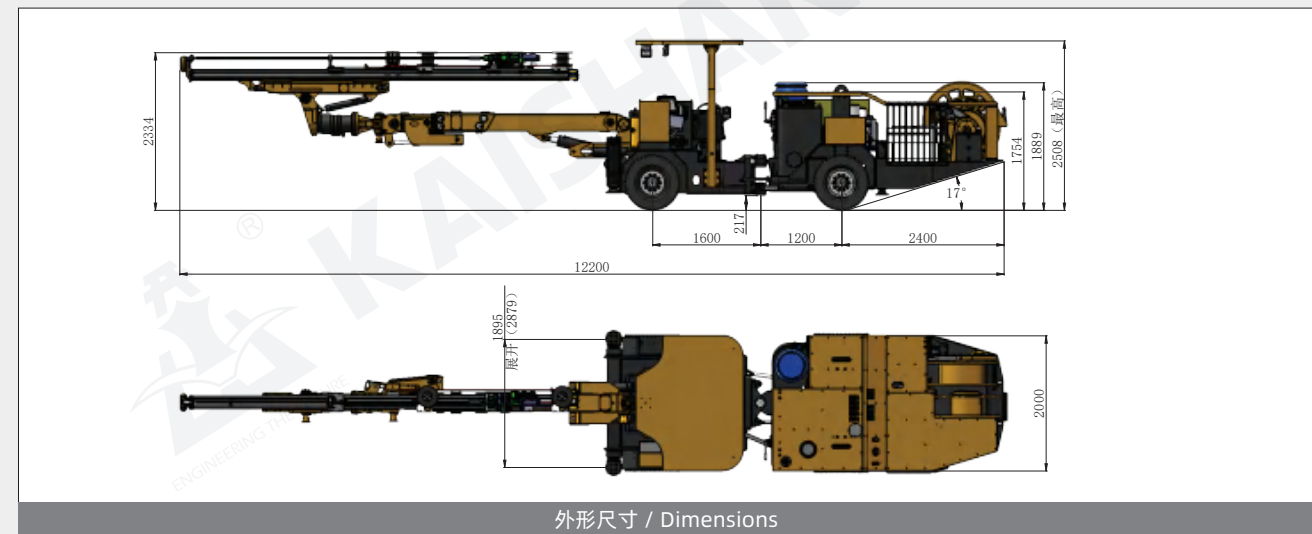


用途及特点 / Application and Features

KJ212i型智能掘进钻车（地下凿岩机器人）是一款智能化巷道掘进设备，专为低矮巷道设计，适用于3.5m×2.4m-9m×5.8m断面的硬岩矿山自动化掘进作业。

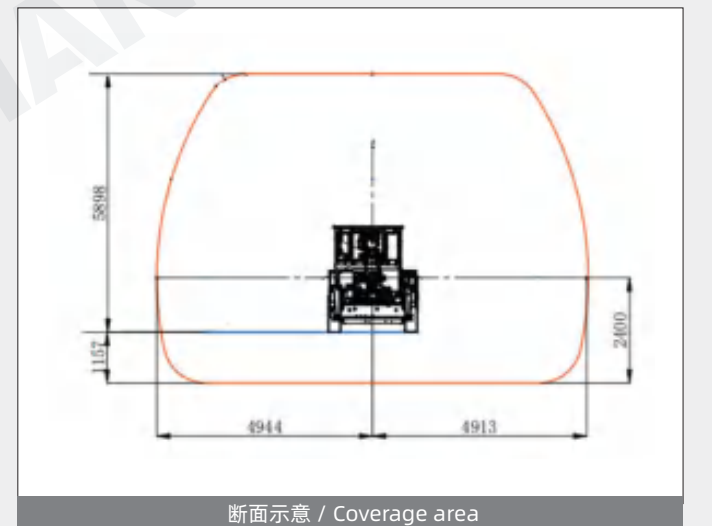
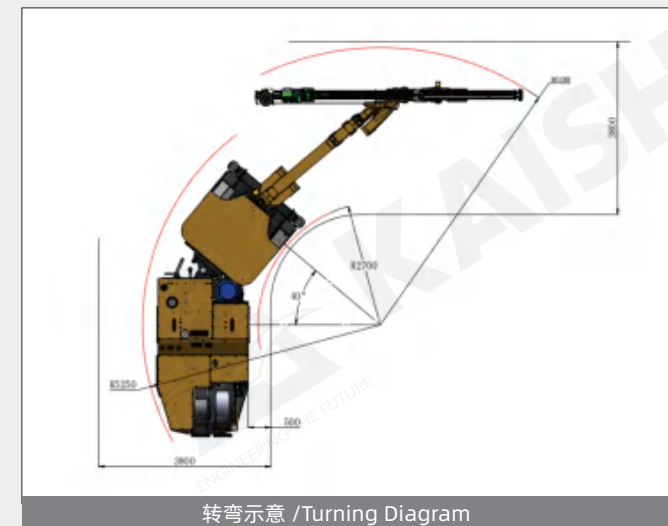
KJ212i Intelligent tunnelling drilling rig (rock-drilling robot underground) is an intelligent roadway tunneling equipment, specially designed for low roadway and suitable for the drilling of hard rock mine whose section falls in the range of 3.5m×2.4m-9m×5.8m.

- **辅助停机系统。** 配备激光测距仪，引导钻车在完全覆盖工作面钻孔范围的合理区域内停车后，自动展开支腿、调整钻车水平。
- Auxiliary shutdown system. It is equipped with laser rangefinder to guide the drilling rig to stop in a reasonable area covering the drilling range of the working face, and then automatically deploy the legs and adjust the level of the drilling car.
- **模拟计算系统。** 扫描工作面，通过系统处理后，实现工作面3D图形的构建和显示，结合矿山布孔方案，计算孔位合理性，并确定最佳钻孔顺序。
- Analog computing system. After scanning the working face and processing by the system, the construction and display of the 3D graphics of the working face are realized. The rationality of the hole position is calculated according to the mine hole layout scheme, and the optimal drilling sequence is determined.
- **孔位定位系统。** 自动驱动钻臂和推进梁至钻孔顺序里的目标位置，完成孔位定位。
- Hole positioning system. The drill boom and beam are automatically driven to the target position in the drilling sequence to complete the hole positioning.
- **自动钻孔系统。** 自动完成开孔、钻孔、钻孔参数调节、防卡钻调节、洗孔、退出等全部钻孔动作，直至完成所有钻孔任务。
- Automatic drilling system. Automatically complete all drilling operations, such as opening, drilling, drilling parameter adjustment, anti-stuck drilling adjustment, hole washing, and exit until the drilling task is completed.
- **远程控制系统。** 在巷道网络条件满足的矿山，可联网地面控制室，实现远程操作，一人可操作多机，减少甚至取消钻孔现场作业人员。
- Remote control system. In mines where the roadway network conditions are met, the ground control room can be networked to achieve remote operation, and one person can operate multiple machines, reducing or even canceling the drilling site operator.
- **数据采集和分析处理模块。** 采集钻孔过程数据，为改善钻孔工艺提供依据，让设备越用越高效。
- Data acquisition and analysis processing module. The drilling process data is collected to provide a basis for improving the drilling process and make the equipment more and more efficient.



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	12200mm	空压机 /Air compressor	DLGF 0.7/8-5.5(B)	润滑油耗量 Oil Consumption of lubrication	180-250g/h	
宽度 / Width	2050mm	排量 /Capacity of air compressor	0.7m³/min			
高度 / Height	1990/2510mm	压力 /Pressure	6-8bar	水泵功率 Power of water pump	1.5kW	4kW
重量 / Weight	约13000kg/Appr. 13000kg	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	润滑油耗量 Air consumption of lubrication	0.3m³/min	水泵排量 Capacity of water pump	3m³/h	5.8m³/h
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	±40°铰接转向 Articulated steering: ±40°	
		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	
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°	紧急制动 Emergency 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	18U	HC95LMH / 22U	电动机/Motor	45kW	55kW 75kW
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	13KW	18KW	21KW / 22KW	回转 /Rotation	齿轮泵 /Gear pump	
频率/Impact Frequency	62Hz	57Hz	62Hz / 53Hz	过滤精度 /Filter fineness	10 μ	
孔径/Hole diameter	Φ32-76mm	Φ42-89 mm	Φ42-102mm	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 36			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	1800mm			电缆规格 /Cable specifications	3×35+3G6	3×50+3G10



KJ311i智能掘进钻车（地下凿岩机器人）

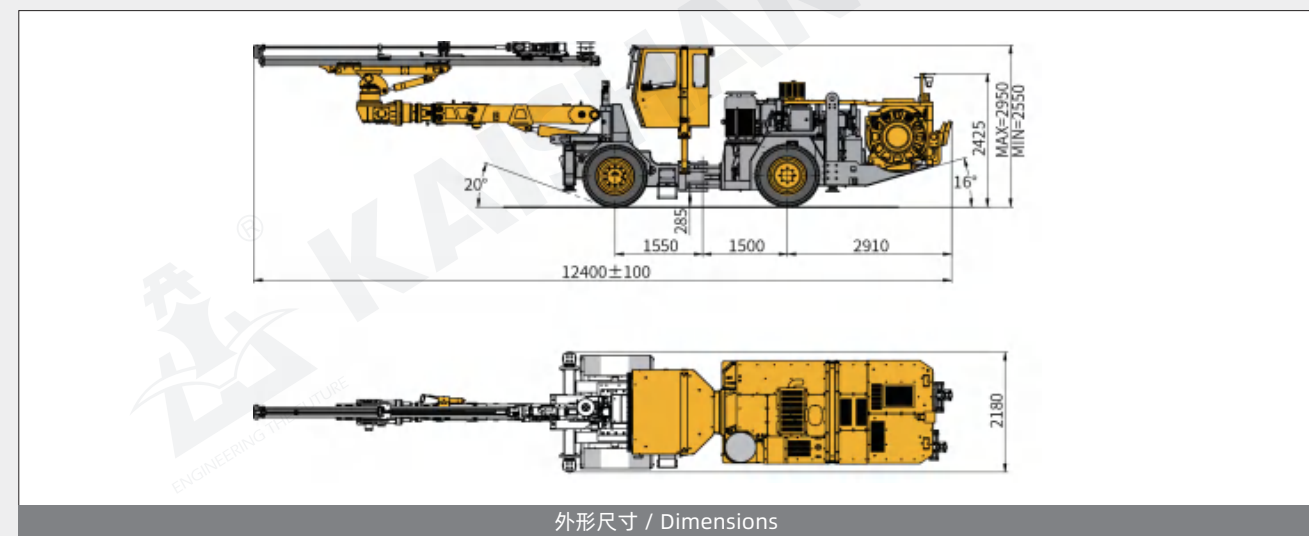
KJ311i Intelligent Tunnelling Drilling Rig (Rock-drilling Robot Underground)



用途及特点 / Application and Features

KJ311i智能掘进钻车（地下凿岩机器人）是一款智能化巷道掘进设备，适用于3.5m×3.5m-9m×5.8m断面的硬岩矿山自动化掘进作业。
KJ311i intelligent tunnelling drilling rig (rock-drilling robot underground) is an intelligent roadway tunneling equipment, suitable for the drilling of hard rock mine whose section falls in the range of 3.5m×3.5m-9m×5.8m.

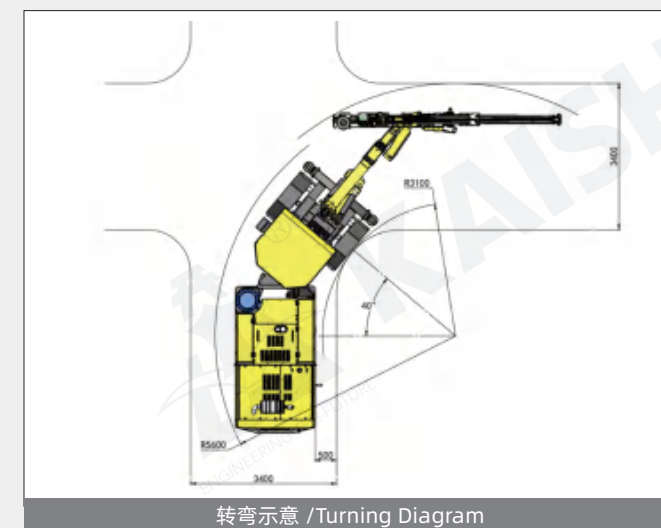
- **辅助停机系统。** 配备激光测距仪，引导钻车在完全覆盖工作面钻孔范围的合理区域内停车后，自动展开支腿、调整钻车水平。
● Auxiliary shutdown system. It is equipped with laser rangefinder to guide the drilling rig to stop in a reasonable area covering the drilling range of the working face, and then automatically deploy the legs and adjust the level of the drilling car.
- **模拟计算系统。** 扫描工作面，通过系统处理后，实现工作面3D图形的构建和显示，结合矿山布孔方案，计算孔位合理性，并确定最佳钻孔顺序。
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● Automatic drilling system. Automatically complete all drilling operations, such as opening, drilling, drilling parameter adjustment, anti-stuck drilling adjustment, hole washing, and exit until the drilling task is completed.
- **远程控制系统。** 在巷道网络条件满足的矿山，可联网地面控制室，实现远程操作，一人可操作多机，减少甚至取消钻孔现场作业人员。
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● Data acquisition and analysis processing module. The drilling process data is collected to provide a basis for improving the drilling process and make the equipment more and more efficient.



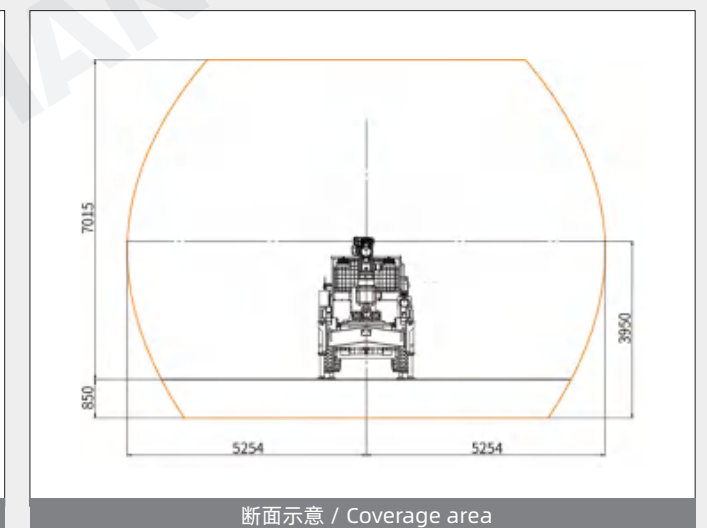
外形尺寸 / Dimensions

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	12400 mm	空压机 / Air compressor	DLGF 0.7/8-5.5(B)	润滑油油量 Oil Consumption of lubrication	180-250g/h
宽度 / Width	2200 mm	排量 /Capacity of air compressor	0.7 m³/min	水泵功率 Power of water pump	1.5 kW 3 kW
高度 / Height	2550/2950 mm	压力 /Pressure	8 bar		
重量 / Weight	17300±500 kg	钎尾润滑装置 Device of shank lubrication	电磁脉冲润滑泵 Electronic pulse lubrication pump	水泵排量 Capacity of water pump	3 m³/h 5 m³/h
行驶速度（水平） Tramming speed on flat ground	10 km/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 B3.9CS4-130C 96KW/2500rpm	转向机构 Steering mechanism	±40°铰接转向 Articulated steering: ±40°
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 hydraulic system for four-wheel driving	行走制动 Travelling braking	双回路液压制动器 Two-circuit hydraulic brake
可升降安全顶棚 Lifting safety roof	FOPS & ROPS认证	摆动角 Swing angle	后桥摆动±10° Swing of rear axle: ±10°	驻车制动 Parking braking	减速器多盘湿式制动器 Wet multidisc brake of reducer
				燃油箱 Fuel tank	60 L
钻进系统 / Drilling system			电动液压泵站 / Electric hydraulic power unit		
凿岩机/Rock drill	HC95	HC95LMH	22U	电动机/Motor	75 kW
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	20 KW	21 KW	22 KW	回转 /Rotation	齿轮泵 /Gear pump
频率/Impact Frequency	62 Hz	62 Hz	53 Hz	过滤精度 /Filter fineness	10μ
孔径/Hole diameter	Φ42-89 mm	Φ42-102 mm	Φ64-102mm	液压油箱 /Hydraulic oil tank	230 L
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	1600 mm			工作电压/Working voltage	380 V
钻臂型号/Model of drill boom	K40	K40ZB		频率 /Frequency	50 Hz
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	1800 mm			电缆规格 /Cable specifications	3×50+3G10



转弯示意 / Turning Diagram



断面示意 / Coverage area

KJ211型矿用液压掘进钻车

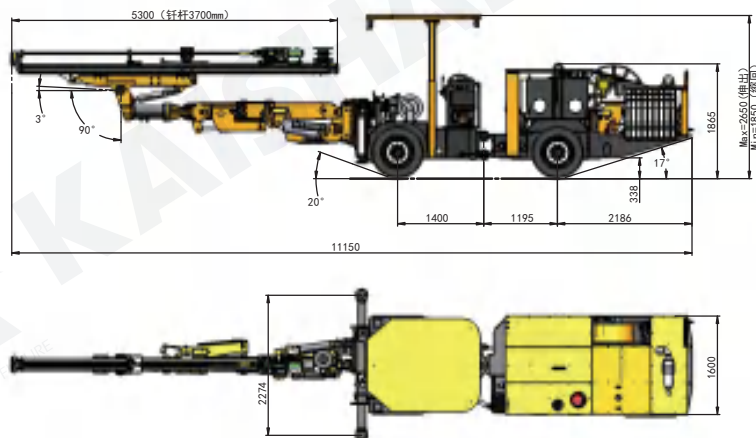
KJ211 Hydraulic Tunnelling Drilling Rig

用途及特点 / Application and Features

KJ211型矿用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7-25m²断面的硬岩掘进作业。

KJ211 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 7-25m².

- 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较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 easy to maintain.

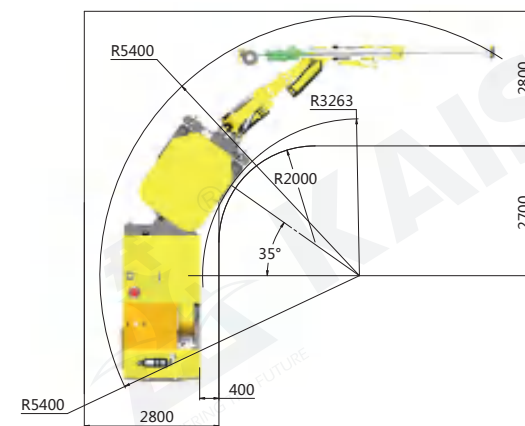


外形尺寸 / Dimensions

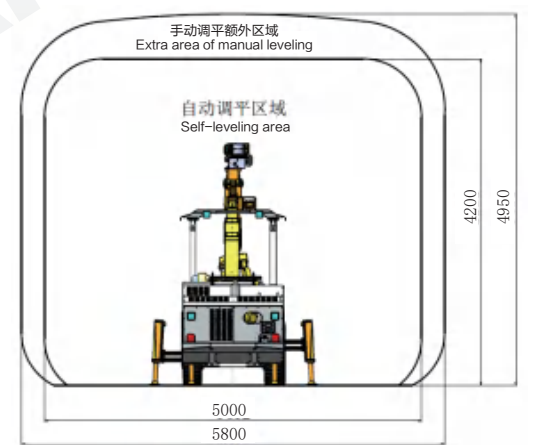


技术参数 / Technical Parameters

外形尺寸与重量 / Dimensions and weight				风水路系统 / Air & water system			
长度 / Length	11150mm		空压机 /Air compressor	DLGF 0.7/8-5.5(B)	润滑油油量 Oil Consumption of lubrication	180-250g/h	
宽度 / Width	1600mm		排量 /Capacity of air compressor	0.7m³/min	水泵功率 Power of water pump	1.5kW	4kW
高度 / Height	1850/2650mm		压力 /Pressure	6-8bar			
重量 / Weight	约11000kg/ Apr. 11000kg		钎尾润滑装置 Device of shank lubrication	电磁脉冲润滑泵 Electronic pulse lubrication pump	水泵排量 Capacity of water pump	3m³/h	5.8m³/h
行驶速度（水平） Tramming speed on flat ground	10km/h		润滑耗气量 Air consumption of lubrication	0.3m³/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	±35°铰接转向 Articulated steering: ±35°	
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 hydraulic system for four-wheel driving	驻车制动 Parking braking	多片式湿式制动器 Wet multidisc brake	
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°	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	18U	HC95LMH / 22U	电动机/Motor	45kW	55kW	75kW
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	13KW	18KW	21KW / 22KW	回转 /Rotation	齿轮泵 /Gear pump		
频率/Impact Frequency	62Hz	57Hz	62Hz / 53Hz	过滤精度 /Filter fineness	10 μ		
孔径/Hole diameter	Φ32-76mm	Φ42-89mm	Φ42-102mm	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 22			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	800mm			电缆规格 /Cable specifications	3×35+3G6	3×50+3G10	



转弯示意 / Turning Diagram



断面示意 / Coverage area

KJ212型矿用液压掘进钻车

KJ212 Hydraulic Tunnelling Drilling Rig

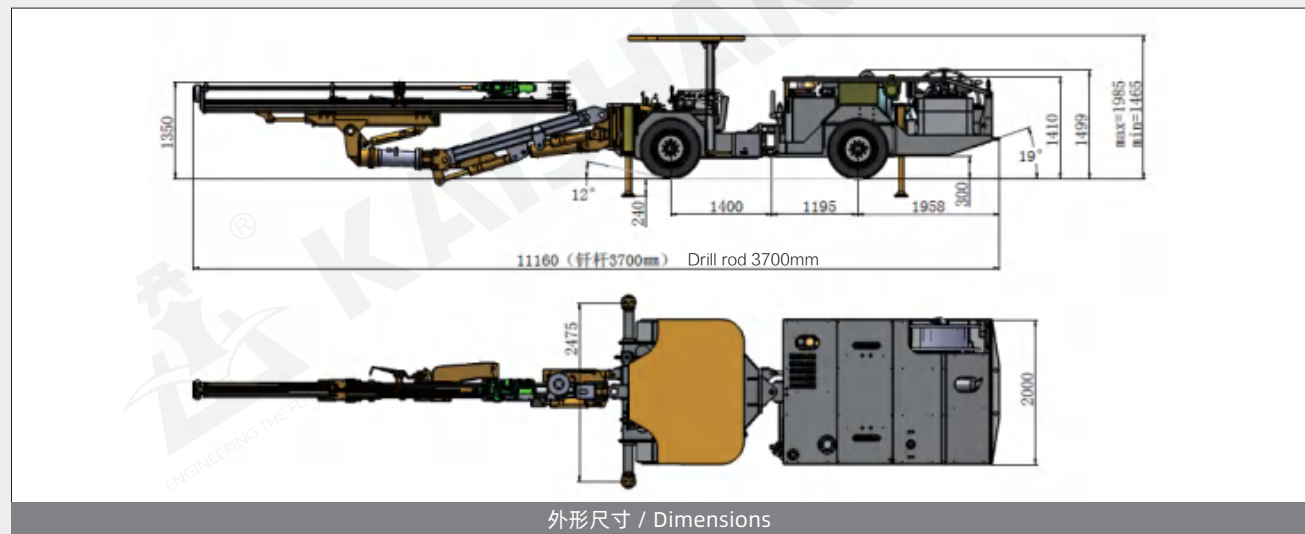


用途及特点 / Application and Features

KJ212型矿用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 tunnelling 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.

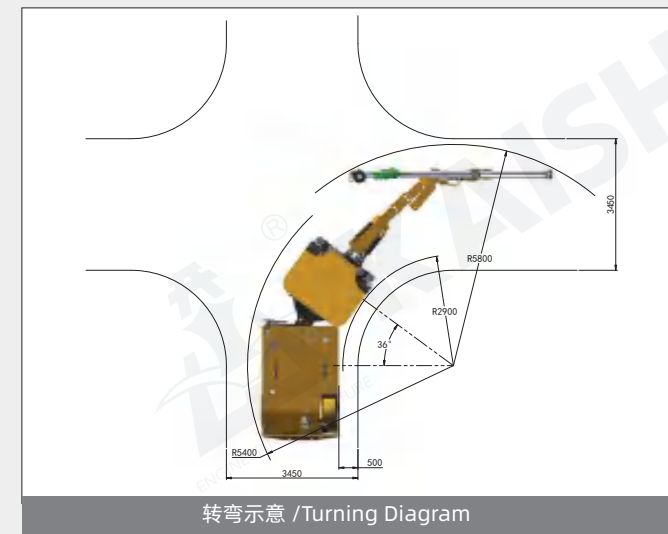
- 坚固可靠的方向大臂具有最佳断面覆盖形状，推进梁360°翻转和自动持平便于快速方便地实现钻孔定位；
- The firm flexible boom is capable of optical coverage of the section; 360° rotation and self-leveling beam make drill positioning easy;
- 大臂同时还可用于侧向开石门和锚杆钻孔作业；
- The boom can also be used for the drilling of lateral cross-cut and rock bolting;
- 钻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 easy to maintain.



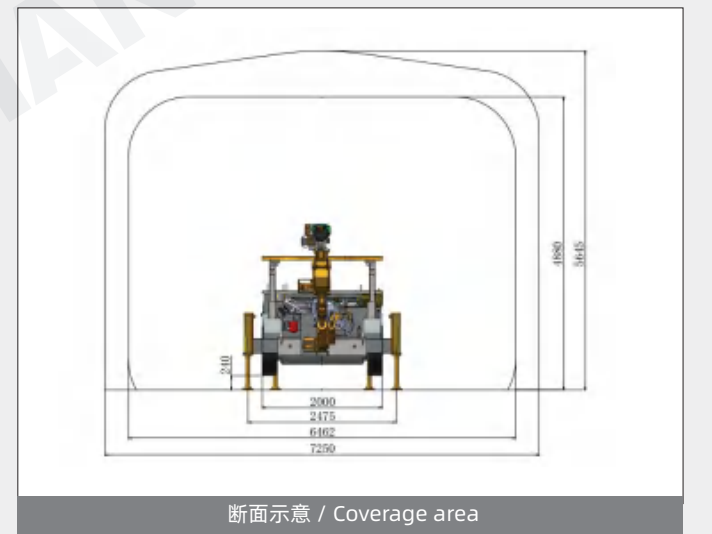
外形尺寸 / Dimensions

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	11160mm	空压机 / Air compressor	DLGF 0.7/8-5.5(B)	润滑油油量 Oil Consumption of lubrication	180-250g/h	
宽度 / Width	2000mm	排量 /Capacity of air compressor	0.7m³/min	水泵功率 Power of water pump	1.5kW	4kW
高度 / Height	1465/1985mm	压力 /Pressure	6-8bar			
重量 / Weight	约11000kg/Apr. 11000kg	钎尾润滑装置 Device of shank lubrication	电磁脉冲润滑泵 Electronic pulse lubrication pump	水泵排量 Capacity of water pump	3m³/h	5.8m³/h
行驶速度（水平） Tramming speed on flat ground	10km/h	润滑耗气量 Air consumption of lubrication	0.3m³/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	±35°铰接转向 Articulated steering: ±35°	
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 hydraulic system for four-wheel driving	驻车制动 Parking braking	多片式制动器 Multidisc brake	
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°	紧急制动 Emergency 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	18U	电动机 /Motor	45kW	55kW	
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	13KW	18KW	回转 /Rotation	齿轮泵 /Gear pump		
频率/Impact Frequency	62Hz	57Hz	过滤精度 /Filter fineness	10 μ		
孔径/Hole diameter	Φ32-76mm	Φ42-89mm	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 26		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	3×50+3G10	



转弯示意 / Turning Diagram



断面示意 / Coverage area

KJ215型矿用液压掘进钻车(窄巷道型)



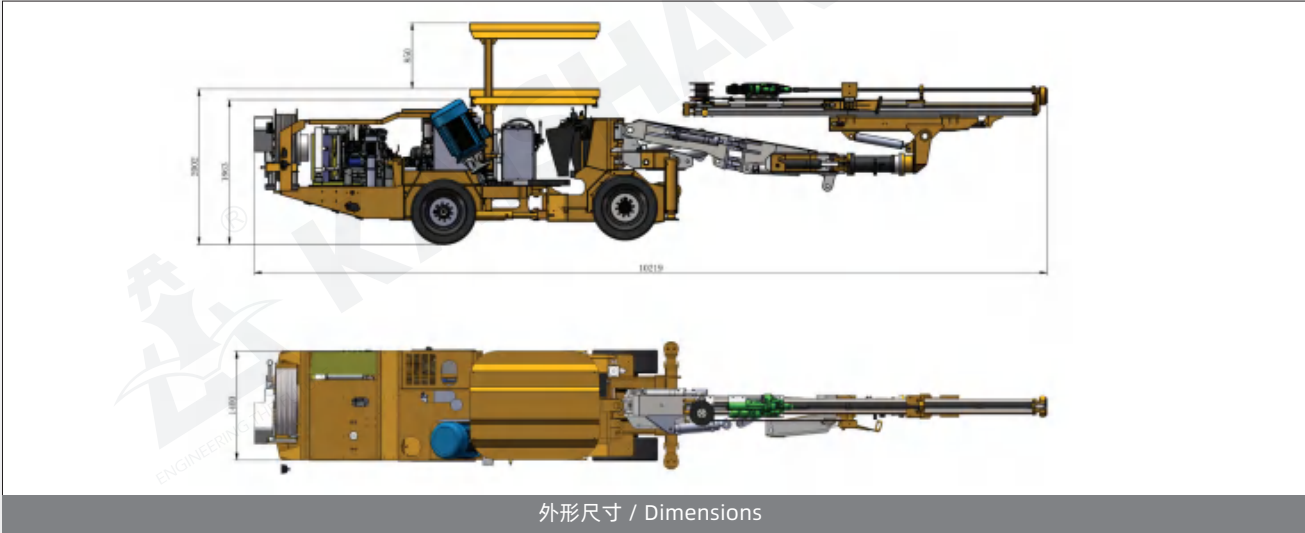
KJ215 Hydraulic Tunnelling Drilling Rig(Narrow tunnel)

用途及特点 / Application and Features

KJ215型矿用液压掘进钻车（窄巷道型）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 (Narrow tunnel) 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.

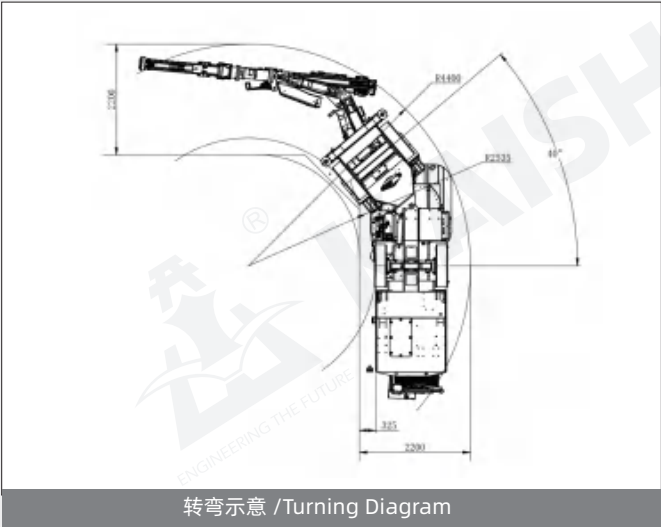
- 坚固可靠的万向大臂具有最佳断面覆盖形状，推进梁360°翻转和自动持平便于快速方便地实现钻孔定位；
- The firm flexible boom is capable of optical coverage of the section; 360° rotation and self-leveling beam make drill positioning easy;
- 大臂同时还可用于侧向开石门和锚杆钻孔作业；
- The boom can also be used for the drilling of lateral cross-cut and rock bolting;
- 钻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较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 easy to maintain.



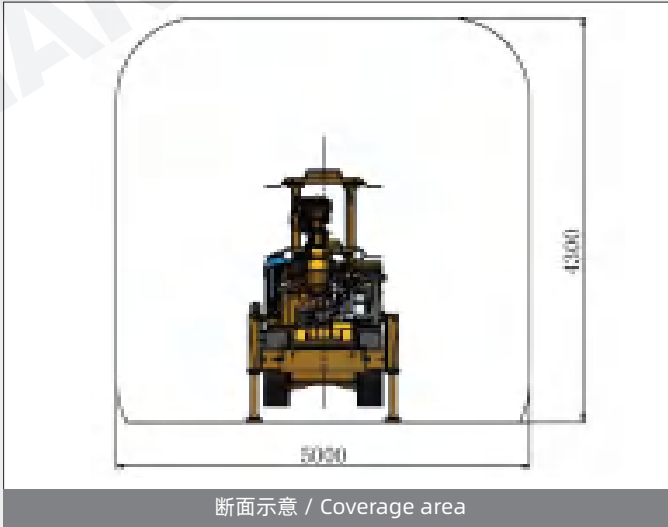
外形尺寸 / Dimensions

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	10220mm	空压机 /Air compressor	DLGF 0.7/8-5.5(B)	润滑油耗油量 Oil Consumption of lubrication 180-250g/h		
宽度 / Width	1400mm	排量 /Capacity of air compressor	0.7m³/min			
高度 / Height	2000/2850 mm	压力 /Pressure	6-8bar	水泵功率 Power of water pump	1.5kW	4kW
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	水泵排量 Capacity of water pump	3m³/h	5.8m³/h
行驶速度（水平） Tramming speed on flat ground	10km/h	润滑耗气量 Air consumption of lubrication	0.3m³/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	±40°铰接转向 Articulated steering: ±40°	
		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	
噪音水平 / Noise level	< 100dB(A)	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	
可升降安全顶棚 Lifting safety roof	FOPS & ROPS认证			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	18U	电动机/Motor	45kW	55kW	
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	13KW	18KW	回转 /Rotation	齿轮泵 /Gear pump		
频率/Impact Frequency	62Hz	57Hz	过滤精度 /Filter fineness	10 μ		
孔径/Hole diameter	Φ32-76mm	Φ42-89 mm	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+3G10	



转弯示意 /Turning Diagram



断面示意 / Coverage area

KJ310型矿用液压掘进钻车

KJ310 Hydraulic Tunnelling Drilling Rig

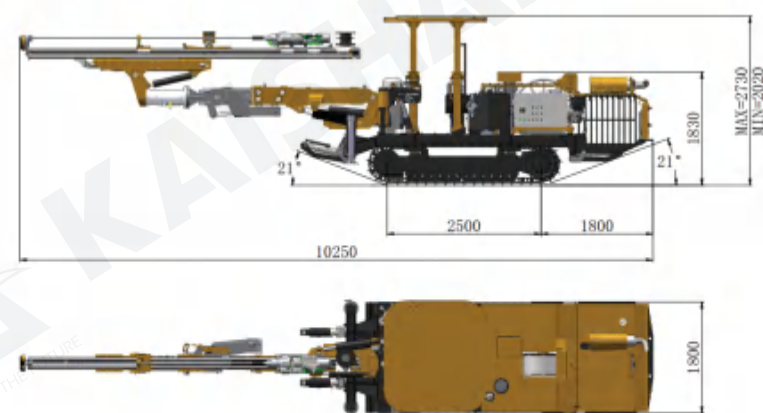


用途及特点 / Application and Features

KJ310适用于采矿准备工作和隧道掘进，是独立作业的液压凿岩钻车，可以钻凿垂直、倾斜和水平的炮孔；适用于12-35m²断面的硬岩掘进作业。

KJ310 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 12-35m² .

- 坚固可靠的方向钻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;
- 钻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，强劲有力的重载底盘确保在巷道中能够灵活，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;
- 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	10250mm	空压机 /Air compressor	DLGF 0.7/8-5.5(B)	润滑油油量 Oil Consumption of lubrication	180-250g/h
宽度 / Width	1800mm	排量 /Capacity of air compressor	0.7m³/min		
高度 / Height	2000/2730 mm	压力 /Pressure	8bar	水泵功率 Power of water pump	4kW
重量 / Weight	约13500 kg /Appr. 13500kg	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	2.5km/h	润滑耗气量 Air consumption of lubrication	0.3m³/min	水泵排量 Capacity of water pump	5.8m³/h
最大爬坡能力 Maximum climbing capacity	20°	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	±40°铰接转向 Articulated steering: ±40°
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 hydraulic system for four-wheel driving	行走制动 Travelling braking	双回路液压制动器 Two-circuit hydraulic brake
可升降安全顶棚 Lifting safety roof	符合防滚翻防落石要求 FOPS & ROPS认证	摆动角 Swing angle	后桥摆动±10° Swing of rear axle: ±10°	驻车制动 Parking braking	减速器多盘湿式制动器 Wet multidisc brake of reducer
				燃油箱 Fuel tank	34L
钻进系统 / Drilling system			电动液压泵站 / Electric hydraulic power unit		
凿岩机/Rock drill	HC50	18U	HC95LMH /22U	电动机 /Motor	75kW
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	13KW	18KW	21KW / 22KW	回转 /Rotation	齿轮泵 /Gear pump
频率/Impact Frequency	62Hz	57Hz	62Hz / 53Hz	过滤精度 /Filter fineness	10μ
孔径/Hole diameter	Φ32-76mm	Φ42-102 mm	Φ42-102mm	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 26F			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	3×50+3G10



断面示意 / Coverage area

KJ311型矿用液压掘进钻车
KJ311 Hydraulic Tunnelling Drilling Rig



用途及特点 / Application and Features

- KJ311型矿用液压掘进钻车适用于12 - 35m²断面的硬岩矿山掘进作业。
- KJ311 hydraulic tunnelling drilling rig is suitably qualified for the drilling of hard rock mine whose section falls in the range of 12—35 square meters.
- 坚固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；钻臂同时还可用于侧向开石门和锚杆钻孔作业；
 - The firm flexible boom is capable of optical coverage of the section; 360° rotation and self-leveling beam make drill positioning easy; It can also be used for the drilling of lateral cross-cut and rock bolt;
 - 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 drill 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.

可选/Optional



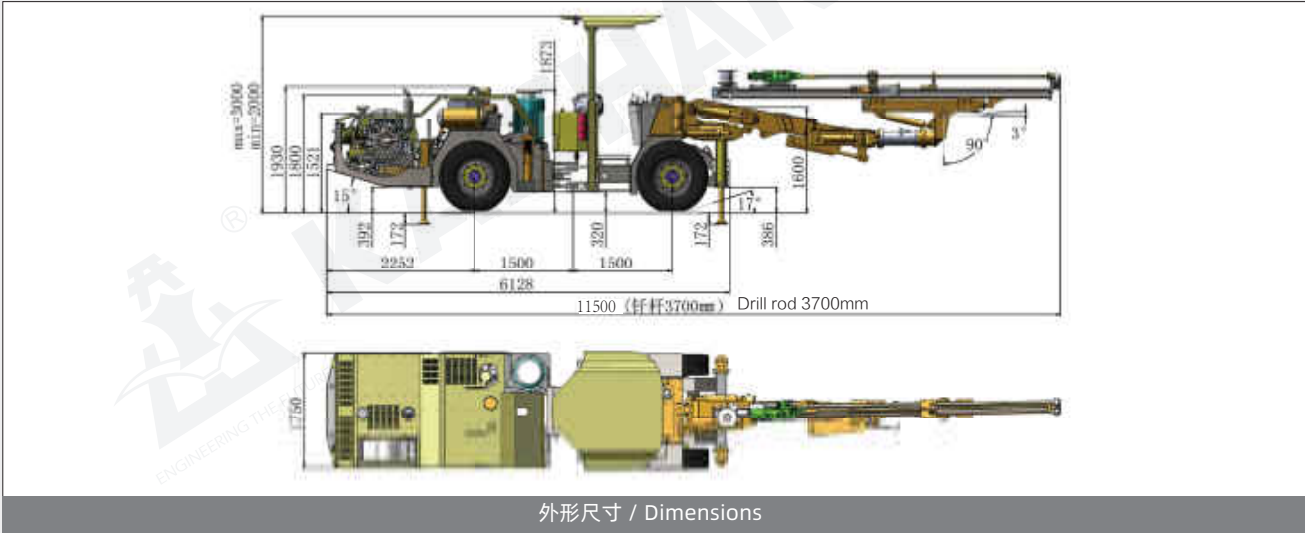
专为大型巷道设计，
最大工作面：7.6×7.4米（宽×高）
It is specially designed for large tunnels,
maximum section:7.6×7.4m (W×H)



专为兼顾打锚杆而设计，可在4m高巷道钻凿
2.2m深的锚杆孔
It is specially designed for the rock bolt
and is capable of drilling the 2.2-meter-deep
rock bolt in the 4-meter-high tunnel.

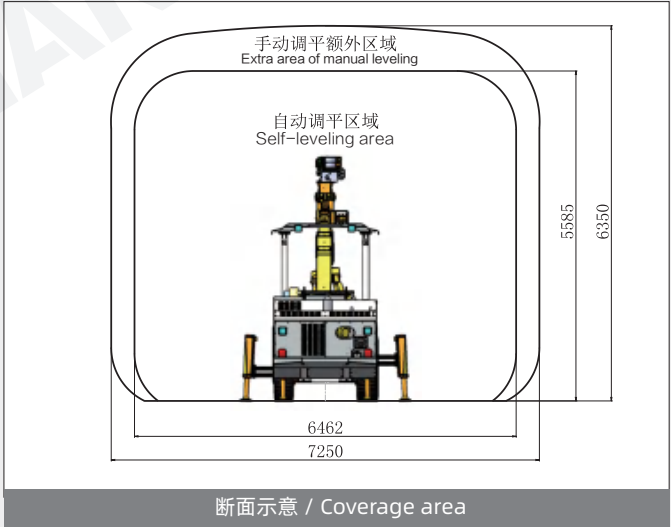
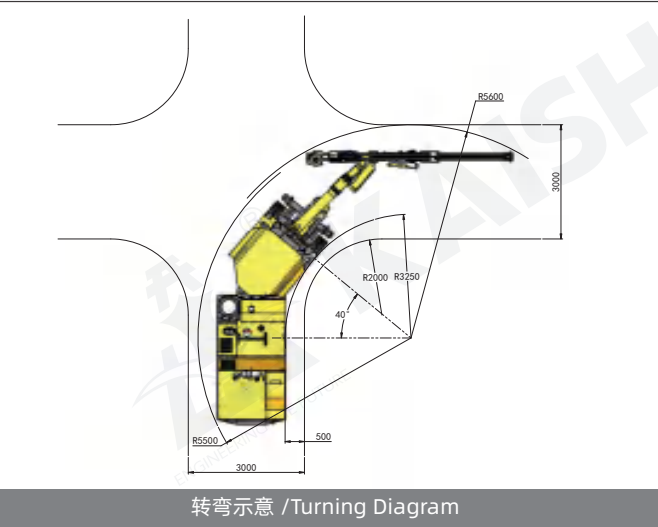


配套驾驶室，提供安全的保护和舒适作业环境。
The auxiliary cab provides safe protection and
comfortable working environment.



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	11500mm	空压机 /Air compressor		DLGF 0.7/8-5.5(B)	润滑油油量 Oil Consumption of lubrication		180-250g/h
宽度 / Width	1750mm	排量 /Capacity of air compressor		0.7m³/min	水泵功率 Power of water pump		1.5kW 4kW
高度 / Height	2000/3000 mm	压力 /Pressure		6-8bar	水泵排量 Capacity of water pump		3m³/h 5.8m³/h
重量 / Weight	约12000 kg / Appr. 12000kg	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		0.3m³/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	±40°铰接转向 Articulated steering: ±40°	
		传动系统 Drive system	四轮驱动闭式行走系统 Closed hydraulic system for four-wheel driving		行走制动 Travelling braking	双回路液压制动器 Two-circuit hydraulic brake	
可升降安全顶棚 Lifting safety roof	FOPS & ROPS认证	摆动角 Swing angle	后桥摆动±10° Swing of rear axle: ±10°		驻车制动 Parking braking	减速器多盘湿式制动器 Wet multidisc brake of reducer	
					燃油箱 Fuel tank	60L	
钻进系统 / Drilling system				电动液压泵站 / Electric hydraulic power unit			
凿岩机/Rock drill	HC50	18U	HC95LMH /22U	电动机 /Motor	45kW	55kW	75kW
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	13KW	18KW	21KW / 22KW	回转 /Rotation	齿轮泵 /Gear pump		
频率/Impact Frequency	62Hz	57Hz	62Hz / 53Hz	过滤精度 /Filter fineness	10 μ		
孔径/Hole diameter	Φ32-76mm	Φ42-89 mm	Φ42-102mm	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 26F			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		3×50+3G10



KJ314型矿用液压掘进钻车(二次破碎)



KJ314 Hydraulic Tunnelling Drilling Rig (Secondary Crushing)

用途及特点 / Application and Features

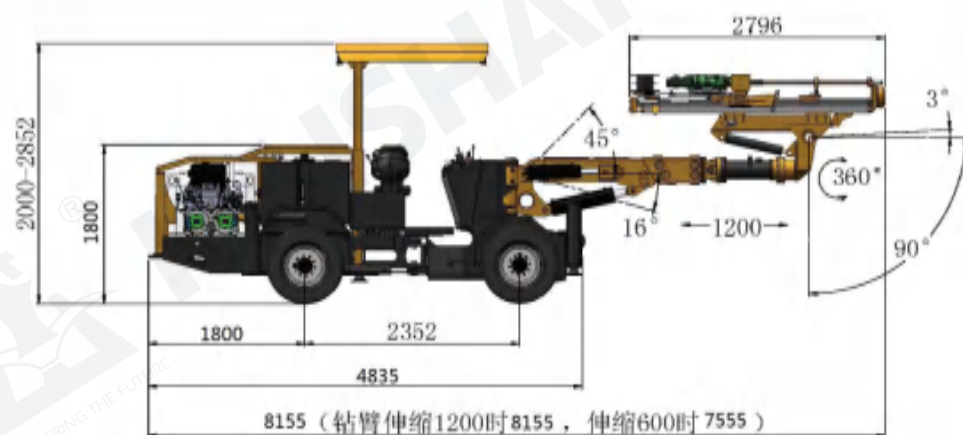
KJ314型矿用液压掘进钻车(二次破碎) 专为短时间多工位凿岩而设计, 钻车以柴油发动机为动力, 自带空压机, 采用水箱供水, 不需要外接水、气管路和电源。钻车可以实现快速凿岩, 快速转场, 特别适用于自然崩落法采矿中的大块矿石处理。

KJ314 hydraulic tunnelling drilling rig (secondary crushing) is specially designed for short time and multi-station rock drilling. The drill rig is powered by diesel engine and has air compressor on board. It uses water tank for water supply and does not need external water, air and power supply. The drill rig can realize rapid rock drilling and rapid sites transfer, especially suitable for processing large pieces of ore in which mines that using natural block caving method.



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	8200mm	排量 /Capacity of air compressor	0.3m³/min	润滑油油量 Oil Consumption of lubrication	180-250g/h
宽度 / Width	1780mm	压力 /Pressure	3-5bar		
高度 / Height	2000/3000 mm	钎尾润滑装置 Device of shank lubrication	电磁脉冲润滑泵 Electronic pulse lubrication pump	水泵排量 Capacity of water pump	3m³/h
重量 / Weight	约12000 kg /Appr. 12000 kg				
行驶速度（水平） Tramming speed on flat ground	10km/h	底盘 / Chassis			
最大爬坡能力 Maximum climbing capacity	25 % (14°)	柴油机 Diesel engine	Cummins B3.9C54-130C 96KW/2500rpm	转向机构 Steering mechanism	±35°铰接转向 Articulated steering: ±35°
安全防护 / Safety protection		传动系统 Drive system	四轮驱动闭式行走系统 Closed hydraulic system for four-wheel driving	行走制动 Travelling braking	多片式制动器 Multidisc brake
噪音水平 / Noise level	< 100dB(A)			驻车制动 Parking 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°	燃油箱 Fuel tank	170L
钻进系统 / Drilling system			钻臂 / Drill boom		
凿岩机/Rock drill	1×HC50 / R38		钻臂型号/Model of drill boom	K25	
冲击功率/Impact power	13kW		钻臂形式/Form of drill boom	伸缩式 /Telescopic	
频率/Impact Frequency	62 Hz		钻臂伸缩/Boom extension	1200mm	
孔径/Hole diameter	Φ32-76mm		液压泵站 / Hydraulic power unit		
推进梁翻转/Beam rotation	360°		冲击/推进/钻臂 /Impact /Feed/ Positioning	轴向变量柱塞泵 Axial variable displacement piston pump	
推进梁补偿行程/Feed extension	850mm				
钻孔深度/Drilling depth	1000mm	1500mm	回转/Rotation	齿轮泵 /Gear pump	
钎杆/Drill rod	R38-H35-R32-1350	R38-H35-R32-1850	过滤精度/Filter fineness	10 μ	
			液压油箱/Hydraulic oil tank	240L	
			液压冷却器/Hydraulic cooler	风冷却器 /Wind cooler	



外形尺寸 / Dimensions



转弯示意 / Turning Diagram

KJ421型全液压掘进钻车
KJ421 Hydraulic Tunnelling Drilling Rig



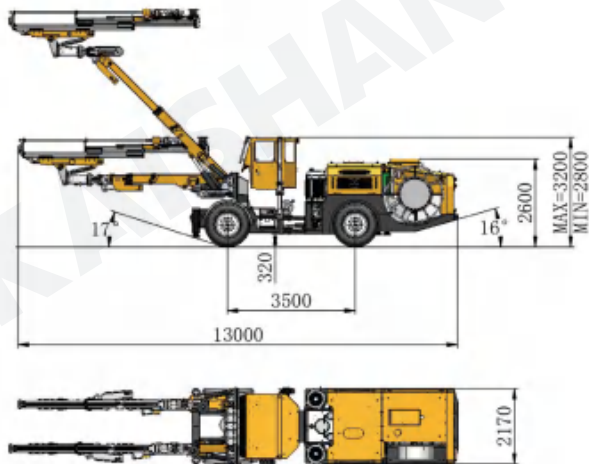
用途及特点 / Application and Features

- KJ421型全液压掘进钻车适用于16-68m²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。
- KJ421 hydraulic tunnelling 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.
 - 该机型可选配封闭驾驶室。
 - It can be equipped with an enclosed cab selectively.

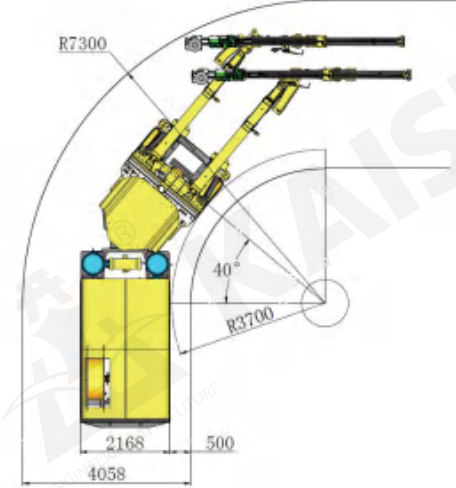


技术参数 / Technical Parameters

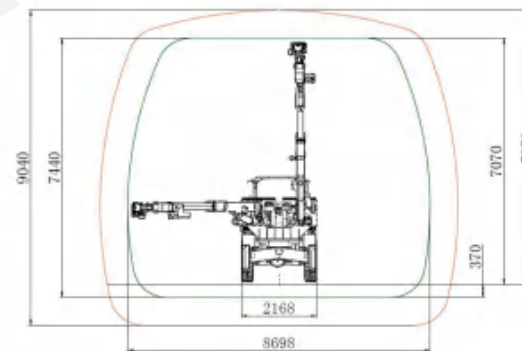
外形尺寸与重量 / Dimensions and weight		风水路系统 / Air & water system			
长度 / Length	13000 mm	空压机 /Air compressor	DLGF 1.5/8-11(B)	润滑油油量 Oil Consumption of lubrication	2x180-250g/h
宽度 / Width	2200 mm	排量 /Capacity of air compressor	1.55m³/min	水泵功率 Power of water pump	7.5kW
高度 / Height	2400/3100 mm	压力 /Pressure	8bar		
重量 / Weight	Appr. 22000 kg	钎尾润滑装置 Device of shank lubrication	电磁脉冲润滑泵 Electronic pulse lubrication pump	水泵排量 Capacity of water pump	10m³/h
行驶速度（水平） Tramming speed on flat ground	10km/h		润滑耗气量 Air consumption of lubrication		
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 B3.9CS4-130C 96KW/2500rpm	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 / 22U		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	10 μ	
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 40		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	1800mm		电缆规格 /Cable specifications	3x120+3G25	



外形尺寸 / Dimensions



转弯示意 /Turning Diagram



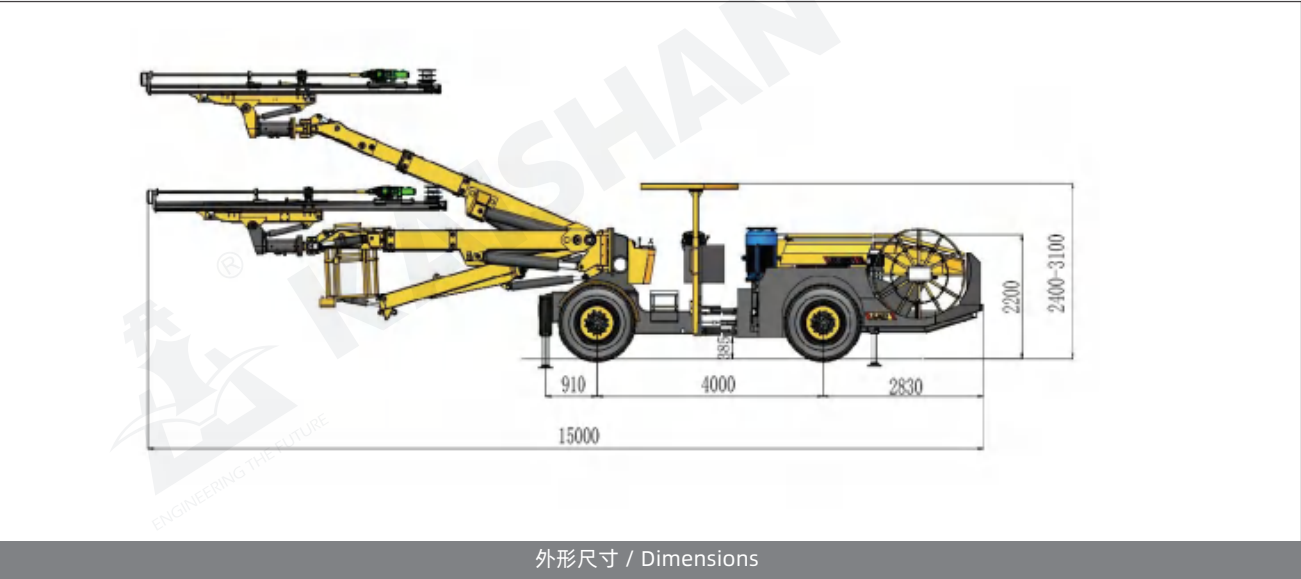
断面示意 / Coverage area

KJ422型全液压掘进钻车

KJ422 Hydraulic Tunnelling Drilling Rig

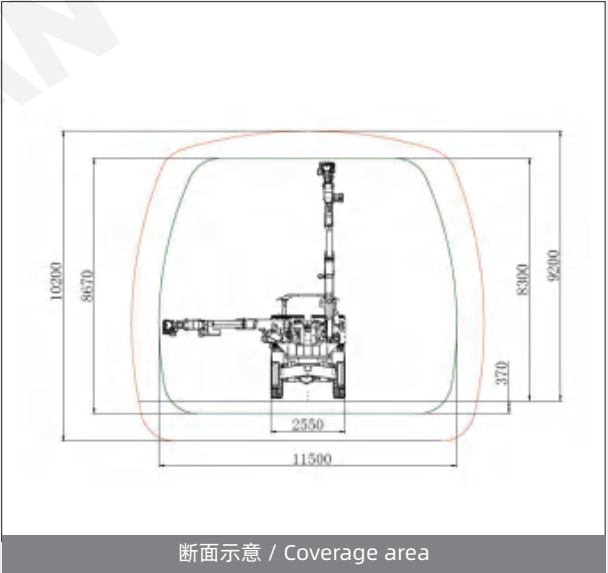
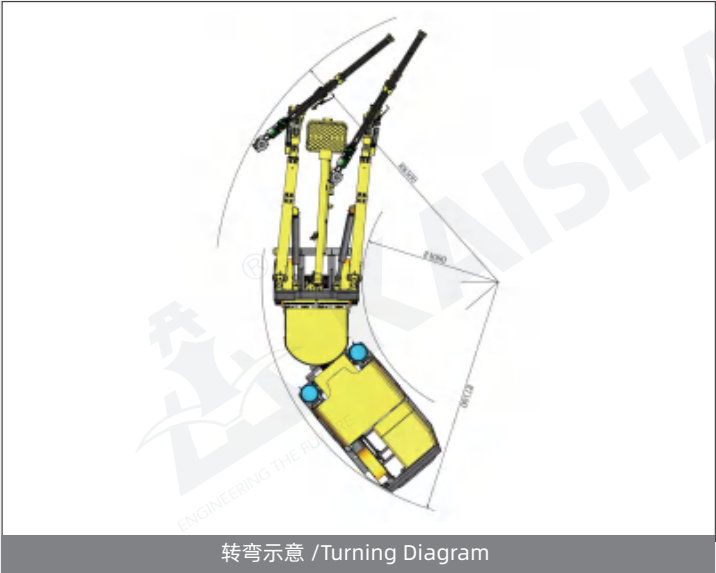
用途及特点 / Application and Features

- 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.



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)	润滑油耗油量 Oil Consumption of lubrication	2x180-250g/h
宽度 / Width	2550 mm	排量 /Capacity of air compressor	1.55m³/min	水泵功率 Power of water pump	7.5kW
高度 / Height	2400/3100 mm	压力 /Pressure	8bar		
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	水泵排量 Capacity of water pump	10m³/h
行驶速度（水平） Tramming speed on flat ground	10km/h	润滑耗气量 Air consumption of lubrication	2x0.3m³/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 B3.9CS4-130C 96KW/2500rpm	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 / 22U		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	10 μ	
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	2000mm		电缆规格 /Cable specifications	3x120+3G25	



KM211型矿用液压锚杆钻车

KM211 Hydraulic Rock Bolting Rig

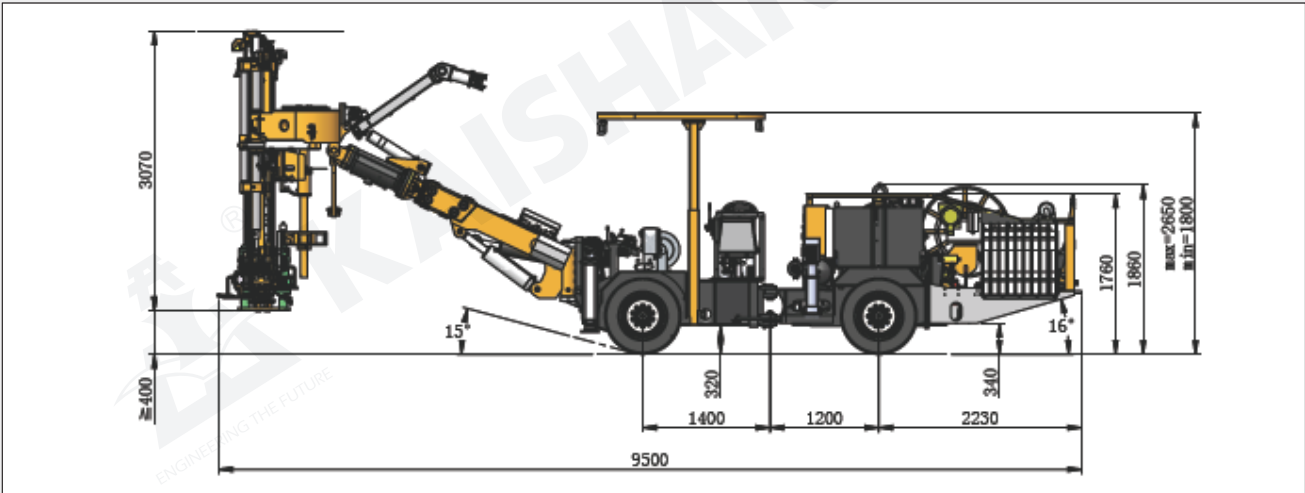


用途及特点 / Application and Features

KM211型矿用液压锚杆钻车专为低矮巷道管缝锚杆施工设计，可通过宽2m高2.5m的断面，适用于在断面宽度2.5m以上，高度3m以上的巷道锚固作业。

KM211 hydraulic rock bolting rig is specially designed for the construction of rock bolt in the pipe seam of low tunnels and it is capable of passing the section 2 meters wide and 2 meters high. It is suitably qualified for anchoring operations in tunnels whose section extends to a width of over 2.5 meters and a height of over 3 meters.

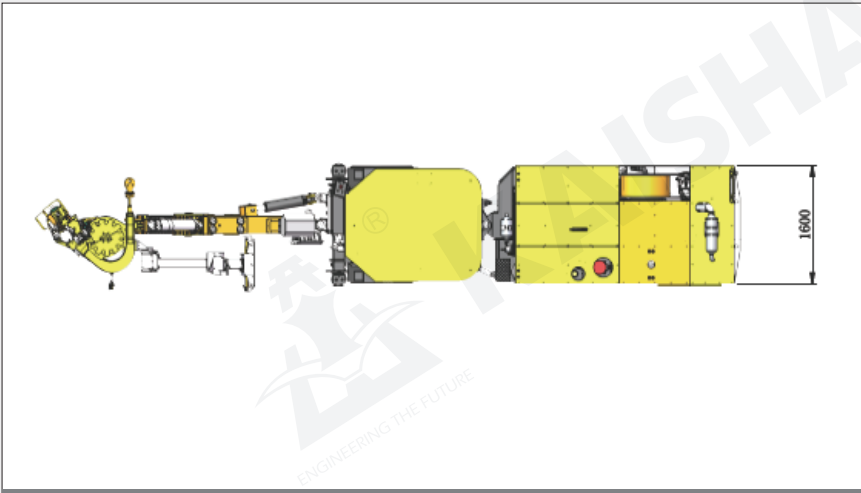
- 功能齐全。采用双工位推进梁，配有可容10根锚杆的储杆仓，选配挂网模块，可以完成钻孔、挂网和安装锚杆等工序；
- Complete functions. The advancing beam at two stations is available and it is equipped with a magazine having a storage capacity of 10 bolting rods, along with optional protective netting module; it is capable of performing the following tasks: drilling, netting and installation of rock bolting rod;
- 安全性高。操作人员处于防护顶棚保护之下，远离危险区域。
- High safety. Operators are protected by the ceiling, far away from the danger area;
- 工作效率高。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；
- High efficiency. The stepped piston is used for the high-frequency rock drill and this can improve the transmission efficiency of impact wave and improve drilling speed and reduce the consumption of drilling tools and make it in good condition;
- 台车布置确保操作手视野良好，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 drill rig provides a good view for the operator; the articulated chassis of four-wheel drive ensures the flexible, quick and safe driving in the narrow tunnel;
- 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, also easy to maintain.



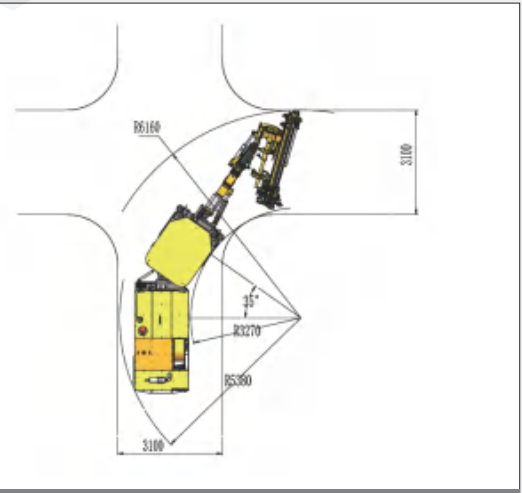
外形尺寸 / Dimensions

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	10200mm	空压机 /Air compressor		DLGF 0.7/8-5.5(B)	润滑油油量 Oil Consumption of lubrication	180-250g/h
宽度 / Width	1600mm	排量 /Capacity of air compressor		0.7 m³/min		
高度 / Height	1800/2650 mm	压力 /Pressure		6-8bar	水泵功率 Power of water pump	1.5kW
重量 / Weight	约12000 kg /Appr. 12000 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 m³/min	水泵排量 Capacity of water pump	3m³/h
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 B3.9CS4-80C 59KW/2500rpm	行走制动 Travelling braking	静液压制动 Hydrostatic brake	
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 travelling system of four-wheel drive	驻车制动 Parking braking	多盘湿式制动器 Web multidisc brake	
钻臂系统 /Drill boom system				燃油箱 Fuel tank	30L	
型号 /Model	K22					
钻臂伸缩 /Boom extension	800mm					
钻进系统 / Drilling system			电动液压泵站 / Electric hydraulic power unit			
	钻孔/Drilling	送杆/Bolt Rod Install	电动机 /Motor	45kW		
凿岩机/Rock drill	HC25 / HC28	HC25 / HC28	冲击/推进/钻臂 /Impact /Feed/ Positioning	轴向变量柱塞泵 Axial variable displacement piston pump		
钎尾尺寸/Rod size	R32		回转 /Rotation	齿轮泵 /Gear pump		
冲击功率/Impact power	8KW (HC25) / 10KW (HC28)		过滤精度 /Filter fineness	10μ		
频率/Impact Frequency	55-65Hz (HC25) / 47-53Hz (HC28)		液压油箱 /Hydraulic oil tank	240L		
孔径/Hole diameter	Φ32-51mm	————	液压冷却器 /Hydraulic cooler	水冷却器 /Water cooler		
推进梁翻转 /Beam rotation	360°		工作电压 /Working voltage	380V		
推进梁补偿行程 /Feed extension	310mm		频率 /Frequency	50Hz		
适用巷道高度 Applicable height of tunnel	锚杆长度+1500mm左右（HC25） Length of bolt rod + about 1500mm（HC25）		启动方式 /Starting method	星-三角 /Star-triangle		
	锚杆长度+1700mm左右（HC28） Length of bolt rod + about 1700mm（HC28）		电缆规格 /Cable specifications	3×35+3G6		



外形尺寸 / Dimensions



转弯半径 / Turning Radius

KM311型矿用液压锚杆钻车

KM311 Hydraulic Rock Bolting Rig

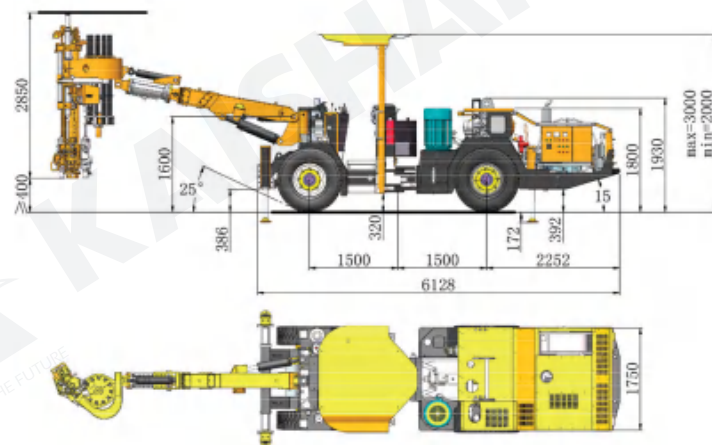
用途及特点 / Application and Features

- KM311型矿用液压锚杆钻车专为管缝锚杆施工设计，可通过宽2.5m高2.2m的断面，适用于在断面宽度3m以上，高度3m以上的巷道锚固作业。
- KM311 Hydraulic rock bolting rig is specially designed for the construction of rock bolt in the pipe seam and it is capable of passing the section 2.5 meters wide and 2.2 meters high. It is suitably qualified for anchoring operations in tunnels whose section extends to a width of over 3 meters and a height of over 3 meters.
- 功能齐全。采用双工位推进梁，配有可容10根锚杆的储杆仓，选配挂网模块，可以完成钻孔、挂网和安装锚杆等整套工序；
 - Complete functions. The beam have two working stations and it is equipped with a magazine having a storage capacity of 10 rock bolt rods, along with optional protective netting module; it is capable of performing the following tasks: drilling, netting and installation of rock bolting rod;
 - 安全性高。操作人员处于防护顶棚保护之下，远离危险区域。
 - High safety. Operators are protected by the ceiling, far away from the danger area;
 - 工作效率高。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；
 - High efficiency. The stepped piston is used for the high-frequency rock drill and this can improve the transmission efficiency of impact wave and improve drilling speed and reduce the consumption of drilling tools and make it in good condition;
 - 台车布置确保操作手视野良好，强劲有力的四轮驱动较接底盘确保在狭窄巷道中能够灵活，快速，安全行驶；
 - The drill rig provides a good view for the operator; the articulated chassis of four-wheel drive ensures the flexible, quick and safe driving in the narrow tunnel;
 - 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；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；
 - Considerable space and automatic functions enable the driver to concentrate on drilling in a safe, fast and accurate manner; all the relevant parts are kept in good protection, thus making maintenance easy.

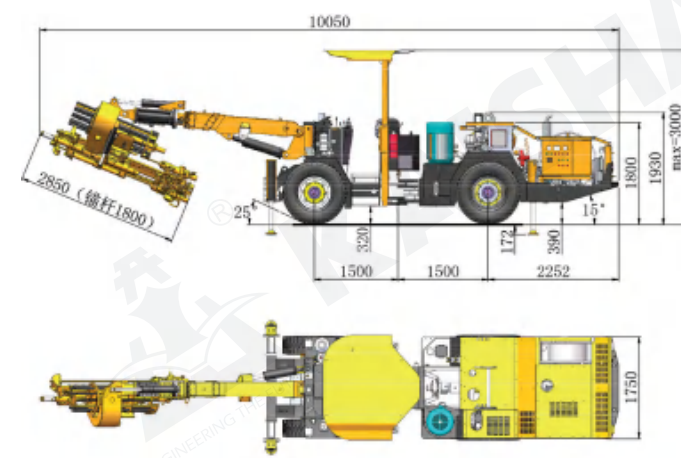


技术参数 / Technical Parameters

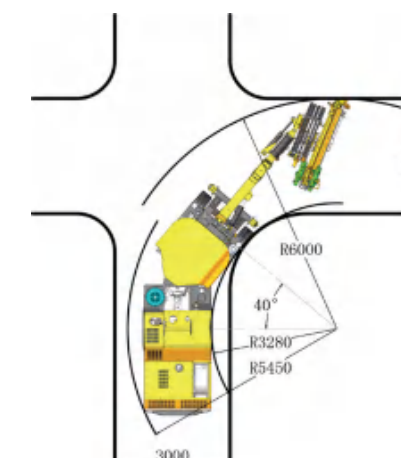
外形尺寸与重量 / Dimensions and weight		风水路系统 / Air & water system					
长度 / Length	10700mm	空压机 /Air compressor	DLGF 0.7/8-5.5(B)	润滑油油量 Oil Consumption of lubrication	180-250g/h		
宽度 / Width	1750mm	排量 /Capacity of air compressor	0.7 m³/min				
高度 / Height	2000/3000 mm	压力 /Pressure	6-8bar	水泵功率 Power of water pump	1.5kW		
重量 / Weight	约12000 kg /Appr. 12000 kg	钎尾润滑装置 Device of shank lubrication	电磁脉冲润滑泵 Electronic pulse lubrication pump	水泵排量 Capacity of water pump	3m³/h		
行驶速度（水平） Tramming speed on flat ground	10km/h						
最大爬坡能力 Maximum climbing capacity	25% (14°)	润滑耗气量 Air consumption of lubrication	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 B3.9CS4-80C 59KW/2500rpm	行走制动 Travelling braking	湿式制动 Wet brake		
可升降安全顶棚 Lifting safety roof	FOPS & ROPS认证						
钻臂系统 /Drill boom system				传动系统 Drive system	湿式车桥四轮驱动系统（闭式行走系统） Four-wheel drive system with wet axle (closed travelling system)	驻车制动 Parking braking	多盘湿式制动器 Web multidisc brake
型号 /Model	K26F						
钻臂伸缩 /Boom extension	1200mm	燃油箱 Fuel tank	60L				
钻进系统 / Drilling system			电动液压泵站 / Electric hydraulic power unit				
	钻孔/Drilling	送杆/Bolt Rod Install	电动机 /Motor	45kW			
凿岩机/Rock drill	HC25 / HC28	HC25 / HC28	冲击/推进/钻臂 /Impact /Feed/ Positioning	轴向变量柱塞泵 Axial variable displacement piston pump			
钎尾尺寸/Rod size	R32		回转 /Rotation	齿轮泵 /Gear pump			
冲击功率/Impact power	8KW (HC25) / 10KW (HC28)		过滤精度 /Filter fineness	10μ			
频率/Impact Frequency	55-65Hz (HC25) / 47-53Hz (HC28)		液压油箱 /Hydraulic oil tank	240L			
孔径/Hole diameter	Φ32-51mm	——	液压冷却器 /Hydraulic cooler	水冷却器 /Water cooler			
推进梁翻转 /Beam rotation	360°		工作电压 /Working voltage	380V			
推进梁补偿行程 /Feed extension	310mm		频率 /Frequency	50Hz			
适用巷道高度 Applicable height of tunnel	锚杆长度+1500mm左右（HC25） Length of bolt rod + about 1500mm（HC25）		启动方式 /Starting method	星-三角 /Star-triangle			
	锚杆长度+1700mm左右（HC28） Length of bolt rod + about 1700mm（HC28）		电缆规格 /Cable specifications	3×35+3G6			



外形尺寸 / Dimensions



运输尺寸 / Transport dimension



转弯半径 / Turning Radius

KSJ21型矿用液压采矿钻车
KSJ21 Hydraulic Mining Drilling Rig

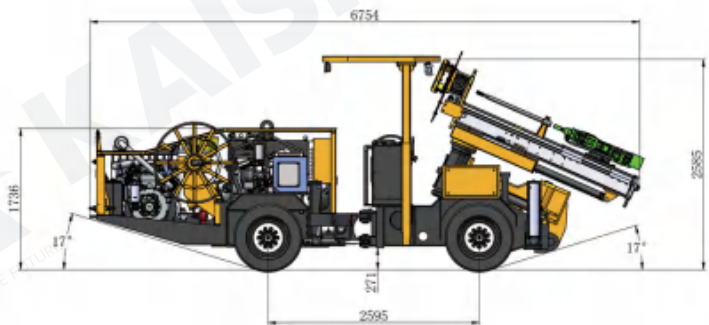


用途及特点 / Application and Features

KSJ21型矿用液压采矿钻车可主要用于中深孔采矿凿爆破孔，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-degreee 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.

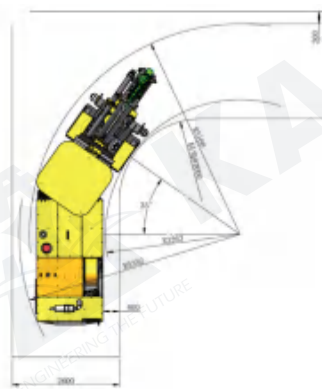
- 经济钻孔深度可达35米，可选配27+1自动接卸杆模块（钻杆长915mm，自动接杆深度25米），实现单人操作；
- Economical drilling depth up to 35 meters, optional 27+1 automatic receiving and unloading rod module (drill pipe length 915mm, automatic receiving rod depth 25 meters), to achieve single-person operation.
- 配备重型铝合金中深孔专用推进梁，前后液压顶尖支撑，保证钻孔过程的稳定性。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.



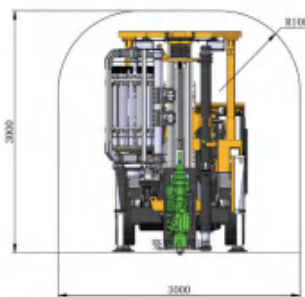
外形尺寸 / Dimensions

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	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		
高度 / Height	2580/3000mm	压力 /Pressure	6-8bar	水泵功率 Power of water pump	4kW
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	水泵排量 Capacity of water pump	5.8m³/h
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 B3.9CS4-80C 59KW/2500rpm	转向机构 Steering mechanism	±36°铰接转向 Articulated steering: ±36°
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 travelling system of four-wheel drive	行走制动 Travelling braking	静液压制动 hydrostatic braking
		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 / 22U	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	10 μ	
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				



转弯半径 / Turning Radius



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。
Horizontal and downward drilling requires additional compressed air for slag removal, please consult the manufacturer for details.

最小断面示意 / Minimum coverage area

KS311型矿用液压采矿钻车

KS311 Hydraulic Mining Drilling Rig



用途及特点 / Application and Features

KS311型矿用液压采矿钻车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3.5m-5m，宽度3.5m-5m。钻臂支座360度翻转，配合摆臂机构和平移导轨，可实现360度钻孔和3米范围平行钻孔（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），能满足各种采矿钻孔要求。

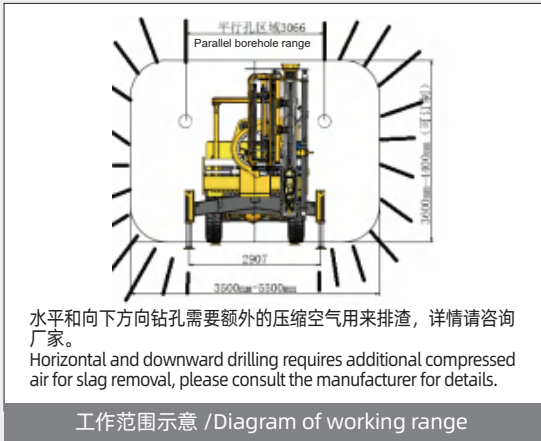
KS311 Hydraulic mining drilling rig is mainly used for blast drilling of medium-length hole mining and supporting drilling of anchor cable. Both the applicable height and width of tunnels fall in the range of 3.5m-5m. The support for the drill boom is capable of 360-degree rotation. In combination with swing boom and translational guide rail, it is capable of 360-degreee drilling and parallel drilling within three meters（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.

- 自动换杆系统可以容纳27根钻杆，最大钻深可达42米。
- The automatic rod-changing system has a storing capacity of 27 drill rods and the drilling depth can reach as far as 42 meters.
- 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。
- The front and rear of the advancing beam are fitted with hydraulic supporting cylinders for smooth drilling. It is fitted with the hydraulic rod oil cylinder and thus ensures the drilling straightness as good as possible.
- 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.
- 闭式液压驱动铰接式矿用底盘，适用于中小尺寸的巷道。
- The articulated mining chassis of closed hydraulic drive 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.



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	9700mm	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	2400mm	排量 /Capacity of air compressor		0.7 m³/min		
高度 / Height	3300 mm	压力 /Pressure		6-8bar	水泵功率 Power of water pump	4kW
重量 / Weight	约16000 kg /Appr. 16000kg	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	水泵排量 Capacity of water pump	5.8m³/h
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 B3.9CS4-80C 96KW/2500rpm	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 travelling system of four-wheel drive	行走制动 Travelling braking	双回路液压制动器 Double-circuit hydraulic brake	
		摆动角 Swing angle	后桥摆动±10° Swing of rear axle: ±10°	驻车制动 Parking braking	减速器多盘湿式制动器 Wet multidisc brake of reducer	
		轮胎/Tires	12.00-20	燃油箱 Fuel tank	60L	
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 / 22U	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		10 μ	
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	42m		工作电压/Working voltage		380V	
推进梁俯仰 /Pitch angle of advancing beam	前俯20°，后仰65° /Front: 20°, 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	左右各1500mm /1500mm each side					
钻杆长度 /Length of drill rod	1525mm	1830mm				
推进梁长度 /Length of advancing beam	3500mm	3800mm				
推进梁补偿行程 /Feed extension	1200mm	1200mm				



KS313型矿用液压采矿钻车

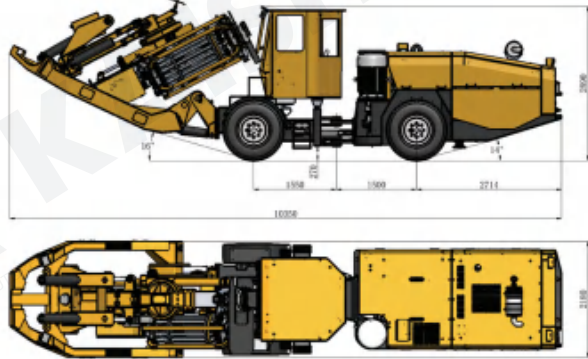
KS313 Hydraulic Mining Drilling Rig

用途及特点 / Application and Features

KS313型矿用液压采矿钻车主要应用于深孔采矿凿岩爆破孔，也可用于锚索支护钻孔。使用巷道高度3.5-5m，宽度3.5-5m。推进梁360°翻转，配合摆动机构和伸缩臂座，可实现360°钻孔和3m范围的平行钻孔，能满足各种采矿钻孔要求。

KS313 hydraulic mining drilling rig is mainly used for blast drilling of deep hole mining and supporting drilling of anchor cable. Both the applicable height and width of tunnels fall in the range of 3.5m-5m. With a propulsive beam capable of 360°rotation, along with an swing boom and telescopic arm seat, it facilitates 360°drilling and offers a parallel drilling within 3 meters, effectively accommodating diverse mining drilling requirements.

- 自动换杆系统可容纳28根钻杆，最大钻孔深度42米。
- The automatic rod-changing system has a storing capacity of 28 drill rods and the drilling depth can reach as far as 42meters.
- 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型。
- The front and rear of the propulsive beam are fitted with hydraulic supporting cylinders for smooth drilling.It is fitted with the hydraulic rid oil cylinder and thus ensures the drilling straightness as good as possible.
- 高频冲击液压凿岩机采用梯级活塞优化了冲击波的传递效率，提高钻进速度，减低钎具消耗，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 makes it in good condition.
- 钻车布置合理，确保操作手视野良好；作业空间宽敞，配备自动功能，有助于司机集中精力安全、快速、准确地完成钻进作业。
- The rig layout is reasonable to ensure that the operator has a good visual field; The spacious work space and automatic functions enable the driver to concentrate on drilling in a safe,fast and accurate manner.
- 钻车驾驶室内装有空调，有利于操作手在高低温的环境下操作。
- The rig cab is equipped with air conditioning, which is conducive to the operator's operation in a high and low temperature environment.

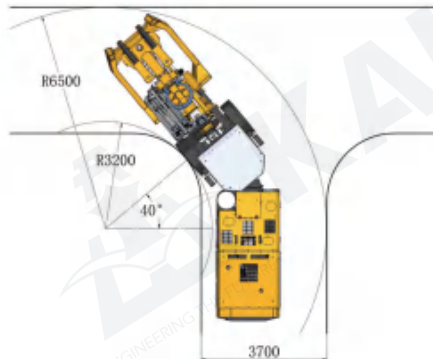


外形尺寸 /Dimensions during operation

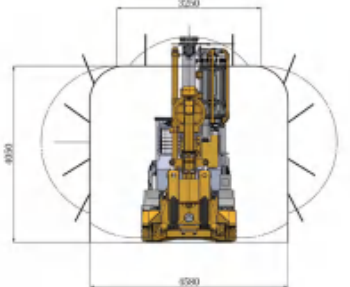


技术参数 / Technical Parameters

外形尺寸与重量 / Dimensions and weight		风水路系统 / Air & water system				
长度 / Length	10350mm	空压机 /Air compressor		DLGF 0.7/8-5.5(B)	润滑耗油量 Oil Consumption of lubrication	180-250 g/h
宽度 / Width	2180mm	排量 /Capacity of air compressor		0.7 m³/min		
高度 / Height	2890mm	压力 /Pressure		6-8bar	水泵功率 Power of water pump	4kW
重量 / Weight	约21000 kg /Appr. 21000kg	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	水泵排量 Capacity of water pump	5.8m³/h
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 B3.9CS4-130C 96KW/2500rpm	转向机构 Steering mechanism	±40°铰接转向 Articulated steering: ±40°	
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	双回路液压制动器 Double-circuit hydraulic brake	
可升降安全顶棚 Lifting safety roof	FOPS & ROPS认证	摆动角 Swing angle	后桥摆动±10° Swing of rear axle: ±10°	驻车制动 Parking braking	减速器多盘湿式制动器 Wet multidisc brake of reducer	
		轮胎/Tires	12.00 R20	燃油箱 Fuel tank	90L	
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 / 22U	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	过滤精度 /Filter fineness		10 μ	
扭矩 /Torque	955Nm / 1550Nm	1342Nm	液压油箱 /Hydraulic oil tank		240L	
孔径 /Hole diameter	64-102mm	64-127mm	液压冷却器 /Hydraulic cooler		水冷却器 /Water cooler	
钻杆螺纹 /Thread of drill rod	T38、T45	T51	工作电压/Working voltage		380V	
钻孔深度 /Drilling depth	42m		频率 /Frequency		50Hz	
推进梁俯仰 /Pitch angle of advancing beam	前俯32°, 后仰35° /Front: 32°, back: 35°		启动方式 /Starting method		星-三角 /Star-triangle	
环形工作角度 /Ring angle	360°					
垂直孔范围 /Rang of Parallel holes	左右各1625mm /1625mm each side					
钻杆长度 /Length of drill rod	915mm	1220mm	1525mm	1830mm		
推进梁长度 /Length of advancing beam	2850mm	3155mm	3460mm	3750mm		
推进梁补偿行程 /Feed extension	700mm	700mm	1100mm	1100mm		



行走时外形尺寸 /Dimensions during travelling



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。
Horizontal and downward drilling requires additional compressed air for slag removal, please consult the manufacturer for details.

工作范围示意 (钻杆1220mm) /Diagram of working range(drill rod 1220mm)

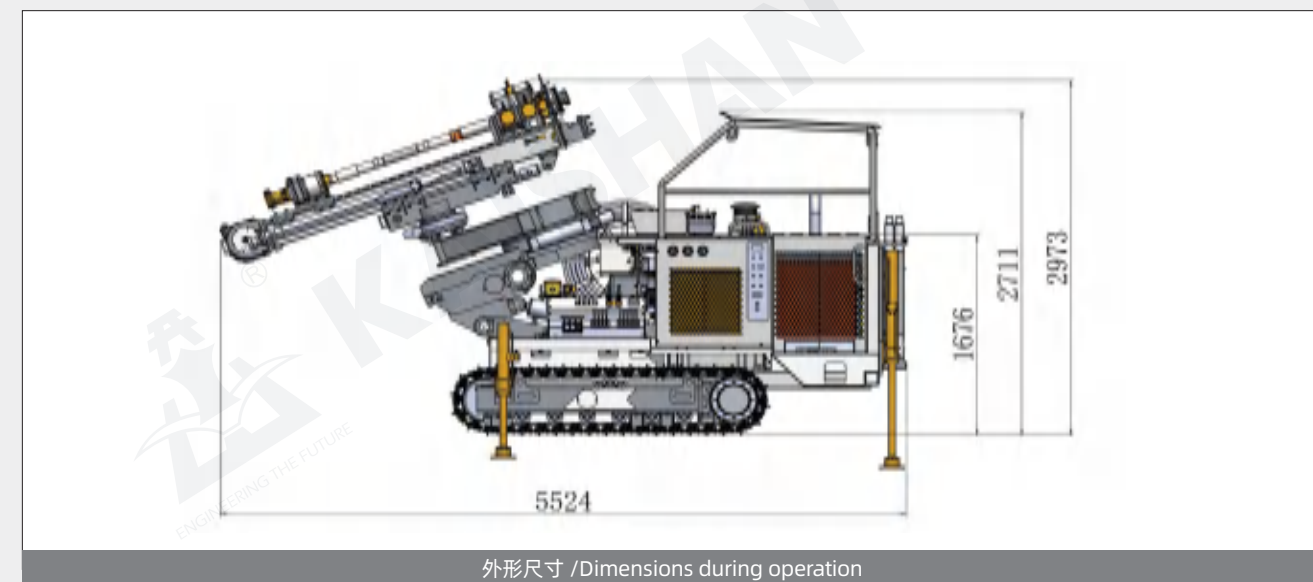
KSQ31型矿用潜孔钻机 / KSQ31 Downhole Mining Drilling Rig



用途及特点 / Application and Features

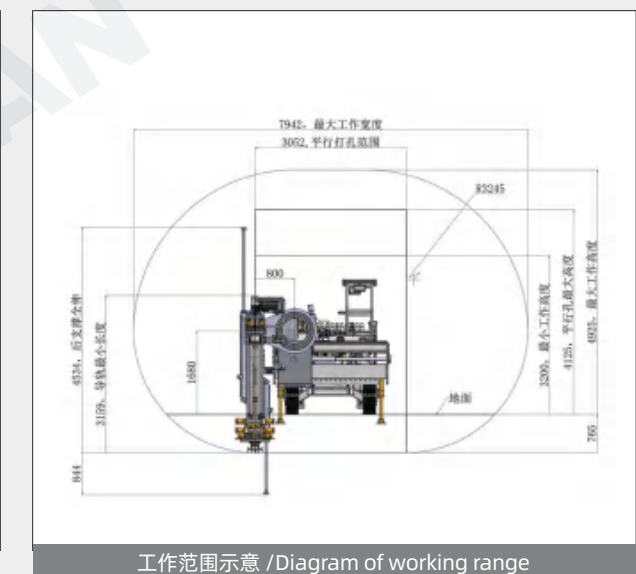
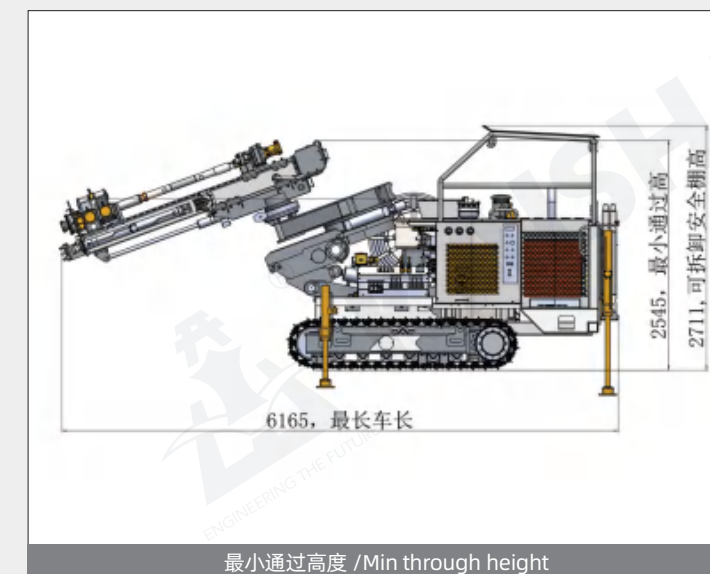
KSQ31型矿用潜孔钻机系我公司在多年开发潜孔钻机产品基础上自行研发的新型、高效、专业的井下钻车设备。该款钻车配备柴油机和电动机两种独立的系统，可独立操作，适用性强。主要适用于巷道宽度3.2-8米，高度3.2-5米的中深孔采矿作业。

KSQ31 downhole mining drilling rig is a new, efficient and professional downhole drilling rig developed by our company on the basis of many years' development of DTH drilling rig products. The drilling rig is equipped with two independent systems, diesel engine and motor, which can be operated independently and has strong applicability. It is mainly suitable for medium and deep hole mining operations with a width of 3.2-8 meters and a height of 3.2-5 meters.



技术参数 / Technical Parameters

参数 / Parameters		推进 / Method	
外形尺寸 Dimensions	长 / Length 5525 mm	推进梁总长 / Length of Propulsion Beam	3155mm
	宽 / Width 2375mm	推进行程 / Feed stroke	1355mm
	高 / Height 2975 mm	最大推拉力 / Lifting force	25KN
重量 / Weight	10000 kg	变幅机构 / Luffing mechanism	
爬坡能力 / Climbing capacity	20°	俯仰角度 / Lifting of drill boom	前俯20°/后仰65°Front20°/back65°
行走速度 / Travelling speed	1.5/3Km/h, 双速 / Double speed	摆动角度 / Swing angle of drill boom	360°
离地间隙 / Ground clearance	355mm	环形工作角度 / Ring angle	360°
动力 / Power		平行孔范围 / Parallel borehole range	3052mm
柴油机 / Engine	YCF3675-T480	电器 / Electrical	
柴油机功率 / Engine power	55.8KW	电机电压 / Working voltage	380V
电机 / Motor	Y250M-4	启动方式 / Starting method	星三角启动 / Star-triangle
电机功率 / Motor power	55Kw	电缆卷盘容量 / Length of reel cabling	80m
钻孔 / Drillin		其他 / Other	
凿岩硬度 / Rock hardness	f=6—20	集尘方式 / Method of dust catching	湿式除尘 wet
钻孔孔径 / Drilling diameter	φ90-125mm	适用风压 / Air pressure	10-25bar
经济钻深 / Depth of economical drilling	50m	推荐排量 / Air consumption	10-22m³/min
钻杆直径 / Drilling rod diameter	φ76mm	操作方式 / Operational mode	液压直控+有线遥控 / Hydraulic pilot + Cable remote control
钻杆长度 / Drilling rod length	1.2m (开孔杆0.8m) / Open-hole drill rod		
钻杆数量 / Number of rods	24+1	防护顶棚 / Protection roof	防落石功能 / Resistance to rolling and rock-fall
回转 / Rotary			
回转器转速 / Rotary speed	0-120rpm		
回转器扭矩 / Rotary torque	1900Nm		



KQ21型撬毛台车 KQ21 Hydraulic Scaling Rig



用途及特点 / Application and Features

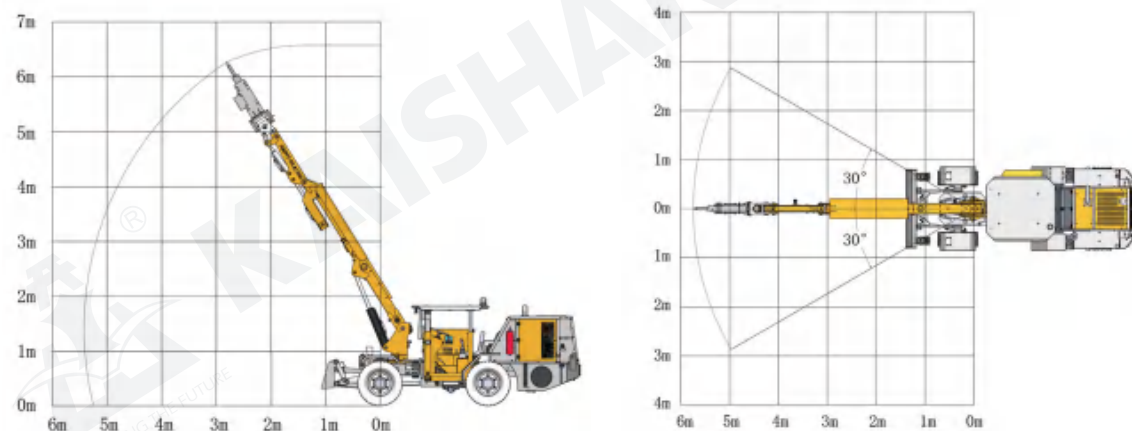
KQ21型撬毛台车以柴油机为单一动力，主要适用于非煤矿山及各种地下工程中巷道、隧道、隧洞撬毛作业。该车工作臂为折叠式并配备旋转油缸驱动的液压锤及机械式平动机构，可对工作面、顶板、侧帮及底板进行全方位作业，同时该车液压系统采用比例先导操纵，因而具有操纵灵活、动作平稳等特点。结构紧凑、移动性能好、转弯半径小、爬坡能力强，采用该设备可大幅提高撬毛作业效率及安全性。

KQ21 hydraulic scaling rig is driven by diesel engine. It is mainly suitable for scaling operations in tunnels and non coal mine hill and various underground projects. The folding arm is fitted with the hydraulic hammer and translation mechanism driven by the rotating oil cylinder and it is capable of all-round operations of working surface, top plate, side wall and base plate. Meanwhile, proportion pilot control is applied to the hydraulic system, characterized by flexible manipulation and smooth operations. The equipment can considerably improve the scaling efficiency and safety based on compact structure, excellent mobility, small turning radius and powerful climbing capacity.

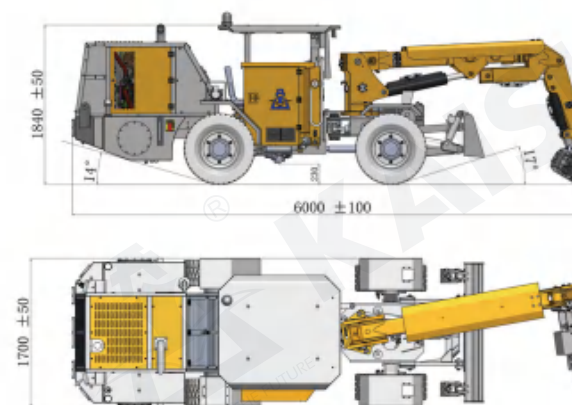


技术参数 / Technical Parameters

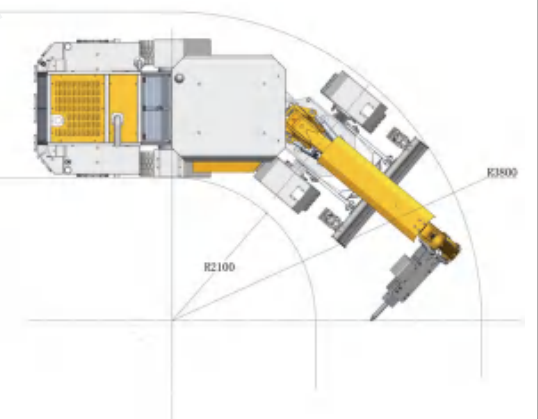
外形尺寸 Dimensions	长 /Length 6000 mm	离地间隙 /Ground clearance	230mm
	宽 /Width 1700 mm	液压锤 /Hydraulic hammer	水山SB30
	高 /Height 1840 mm	冲击能量 /Impact energy	350J
重量 /Weight	6500 kg	冲击频率 /Impact frequency	9-16Hz
发动机 /Engine	YCF3675-T480	驱动流量 /Drive flow	25-40L/Min
功率/转速 /Power/ Speed	55.8kw/2200rpm	工作压力 /Working pressure	90-125Bar
传动系统 /Drive system	静液压传动 Hydrostatic drive	摆臂角度 /Angle of swing arm	±30°
		液压锤俯仰角度 /Pitch angle of hydraulic hammer	100°
摆动角 /Swing angle	±6°	摆动缸角度 /Angle of swing cylinder	±90°
轮胎 /Tires	300-15	钻臂伸缩 /Drill arm expansion and contraction	1200mm
转向角度 /Steering angle	±40°	最大工作高度 /Maximum working height	6200mm
转弯半径 (内/外) /Turning radius (inner/outer)	2100/3800mm	最大工作宽度 /Maximum working width	5600mm
行走制动 /Travelling braking	湿式制动 /Wet brake	驾驶室后仰 /Backward angle of cab	15°
最大行驶速度 /Maximum tramming speed	7km/h	水泵功率 /Power of water pump	0.5kw
最大爬坡角度 /Maximum climbing angle	25% (14°)	水泵流量 /Flow of water pump	2L/Min
		驾驶室升降 /Cab lift	400mm



作业范围 / Operating range



外形尺寸 / Dimensions



转弯半径 / Turning Radius

KQ311型撬毛台车

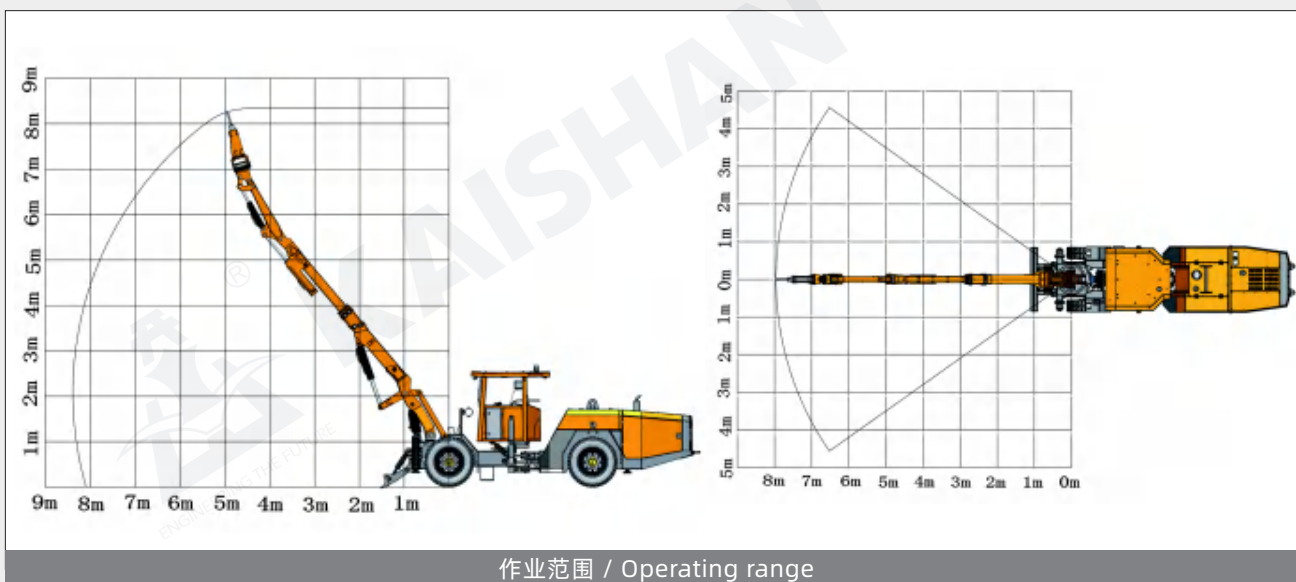
KQ311 Hydraulic Scaling Rig



用途及特点 / Application and Features

KQ311型撬毛台车以柴油机为单一动力，主要适用于非煤矿山及各种地下工程中巷道、隧道、隧洞撬毛作业。该车工作臂为折叠式并配备旋转油缸驱动的液压锤及机械式平动机构，可对工作面、顶板、侧帮及底板进行全方位作业，同时该车液压系统采用比例先导操纵，因而具有操纵灵活、动作平稳等特点。结构紧凑、移动性能好、转弯半径小、爬坡能力强，采用该设备可大幅提高撬毛作业效率及安全性。

KQ311 hydraulic scaling rig is driven by diesel engine. It is mainly suitable for scaling operations in tunnels and non coal mine hill and various underground projects. The folding arm is fitted with the hydraulic hammer and translation mechanism driven by the rotating oil cylinder and it is capable of all-round operations of working surface, top plate, side wall and base plate. Meanwhile, proportion pilot control is applied to the hydraulic system, characterized by flexible manipulation and smooth operations. The equipment can considerably improve the scaling efficiency and safety based on compact structure, excellent mobility, small turning radius and powerful climbing capacity.



技术参数 / Technical Parameters

外形尺寸 Dimensions	长 /Length 8800 mm 宽 /Width 1750mm 高 /Height 2650 mm	液压锤 /Hydraulic hammer 冲击能量 /Impact energy 冲击频率 /Impact frequency	水山/SOOSAN SB30 350J 9-16Hz
重量 /Weight	12000 kg	驱动流量 /Drive flow	25-40L/Min
发动机 /Engine	Cummins B3.9CS4-80C	工作压力 /Working pressure	90-125Bar
功率/转速 /Power/ speed	59KW/2500rpm	摆臂角度 /Angle of swing arm	±30°
传动系统 /Drive system	四轮驱动闭式行走系统 Closed travelling system of four-wheel drive	平动臂俯仰角度/Pitch angle of translational arm 中臂举升角度 /Lifting angle of mid-arm	45° 60°
摆动角/Swing angle	±6°	前臂俯仰角度 /Pitch angle of front arm	95°
轮胎 /Tires	11.00-20	液压锤俯仰角度 /Pitch angle of hydraulic hammer	120°
转向角度/Steering angle	±40°	摆动缸角度 /Angle of swing cylinder	±90°
转弯半径（内/外）/Turning radius (inner/outer)	3150/5610	钻臂伸缩 /Drill arm expansion and contraction	1200mm
行走制动/Travelling braking	湿式制动	最大工作高度 /Maximum working height	8300mm
最大行驶速度 /Maximum tramming speed	10km/h /Wet brake	最大工作宽度 /Maximum working width	8800mm
最大爬坡角度 /Maximum climbing angle	25% (14°)	驾驶室后仰 /Backward angle of cab	15°
轴距 /Wheelbase	3200mm	水泵功率 /Power of water pump	0.5Kw
轮距 /Wheel tread	1400mm	水泵流量 /Flow of water pump	2L/Min
离地间隙 /Ground clearance	300mm	驾驶室升降 /Cab lift	400mm
		可升降安全顶棚 /Lifting safety roof	FOPS & ROPS认证

