



# 开山露天钻车系列

## KAISHAN CRAWLER RIG SERIES



# 品质开山 行业典范

Kaishan's Quality – Setting The Standard For The Industry



## 郑州开山机电设备有限公司

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本公司对产品不断研究改进, 拥有设计变更权, 如样本中的型号及数值更改, 恕不另行通知。  
Products subject to constant improvements and changes without prior notice

高新技术企业  
Hi-tech Enterprise

《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"

《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"

浙江省装备制造业重点领域首台(套)产品  
The First Product in Key Fields of Equipment Manufacturing Industry of Zhejiang Province

浙江省优秀工业产品  
Excellent Industrial Products of Zhejiang Province

《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"

《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"

浙江省制造精品、浙江省首届工业设计金奖  
2016 High Quality Product of Zhejiang Province  
Gold Award of First Zhejiang Province Industrial Design Awards

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、14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、土石方工程和基础设施建设等领域。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二十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, 14 manufacturing bases, R&D centers and sales centers in China (including Quzhou, Zhejiang; Pudong, Shanghai; Shuangqiao, Chongqing; Foshan, Guangdong; 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 20 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.



# 品质开山 行业典范

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.



## KG310/KG310H型露天潜孔钻车

### KG310/KG310H Down The Hole Drill Rig For Open Use

KG310/KG310H型露天潜孔钻车是应国家对环保要求而进行升级的一款设备。配备有玉柴动力非道路双缸国三发动机，满足国家对排放和环保的要求。灵活的变幅机构，可满足钻凿低位水平孔功能，同时对液压系统升级，增大其系统流量，提高回转转速。对提升油缸进行优化，提高其可靠性，增加起吊吊环（板），方便装卸吊装。

The KG310/KG310H down the hole drill rig for open use is an improved device in compliance with national regulations on environmental protection. Equipped with the Yuchai double-cylinder engine (China III), the drill rig meets the national standards for emissions and environment. The flexible derricking mechanism is suitably qualified for horizontal drilling at a low level. The hydraulic system has been improved, leading to increased system flow and rotary speed. Moreover, the hydraulic cylinder has been optimized, thus making it more reliable; and the additional ring (plate) makes handling and lifting easier.

KG310H型露天潜孔钻车增加集尘器，采用双捕尘油缸，工作时更环保、可靠。

The KG310H down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### ▲ KG310H型 露天潜孔钻车

KG310H Down The Hole Drill Rig For Open Use

#### 技术参数 / Technical Parameters

钻车型号 /Model of drill rig	KG310	KG310H
整机重量 /Weight of complete machine	4000KG	4200KG
外形尺寸 /Outer dimensions	4650 × 2000 × 2200mm	4650 × 2500 × 2200mm
凿岩硬度 /Drilling hardness	f=6-20	
钻孔孔径 /Drilling diameter	Φ80-105mm	
经济钻深 /Depth of economical drilling	20m	
回转转速 /Rotary speed	0-110rpm	
最大回转扭矩 /Rotary torque (Max)	1650N · m (Max)	
提升力 /Lifting force	18KN	
推进方式 /Method of Feed	油缸+板式链 /Oil cylinder+leaf chain	
推进行程 /Feed stroke	2670mm	
行走速度 /Travelling speed	0-2.0km/h	
爬坡能力 /Climbing capacity	≤30°	
离地间隙 /Ground clearance	250mm	
滑架俯仰角度 /Tilt angle of Beam	俯145° 仰55° 共190° /Down:145°, up: 55°, total: 190°	
滑架摆动角度 /Swing angle of boom	左100° 右45° 共145° /Left: 100°, right: 45°, total: 145°	
钻臂俯仰角度 /Pitch angle of drill boom	俯50° 仰25° 共75° /Down: 50°, up: 25°, total: 75°	
滑架补偿长度 /Compensation length of beam	900mm	
配套动力 /Supporting power	玉柴动力YCCA13T6-45(33.1KW/2400r/min) /Yuchai power YCCA13T6-45 (33.1KW/2400r/min)	
冲击器 /DTH hammer	L30	
钻杆 /Drilling rod	Φ60 × 2m	
耗风量 /Air consumption	7-15m³/min	
最高水平孔高度 /Maximum height of horizontal hole	2650mm	
最低水平孔高度 /Minimum height of horizontal hole	360mm	



#### ▲ 配套空压机方案推荐 /Recommended Air Compressors

柴油移动式螺杆压缩机：开山 LGCY-12/10  
 开山 KSCY-550/13

Diesel engine portable screw air compressor: Kaishan LGCY-12/10  
 Kaishan KSCY-550/13

注：根据孔径大小及空气管路远近选配空压机  
 Note: Air compressor selection subject to hole diameter and air hose length

## KG320/KG320H型露天潜孔钻车

### KG320/KG320H Down The Hole Drill Rig For Open Use

KG320/KG320H型露天潜孔钻车是应国家对环保要求而进行升级的一款设备。配备有玉柴动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用柱塞行走马达，工程四轮一带，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。同时对液压系统升级，增大其系统流量，提高回转转速。对提升油缸进行优化，提高其可靠性。导轨采用倾斜安装，方便操作和观察。罩壳采用加厚型材，增加起吊吊环，方便装卸吊装。

The KG320/KG320H down the hole drill rig for open use is an improved device in compliance with national regulations on environmental protection. Equipped with the Yuchai engine (China III), the drill rig meets national standards for emissions and environment. The tramping motor of plunger piston and four-wheel drive improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements of limiting position use. Meanwhile, the hydraulic system is improved, thereby proving increased system flow and rotary speed. The hydraulic cylinder has been optimized, thus making it more reliable. The guide rail is installed in an inclined way, making operations and observations easier. The thickened profile is used for the housing; and the additional ring makes handling and lifting convenient.

KG320H型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG320H down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### ▲ KG320H型 露天潜孔钻车

KG320H Down The Hole Drill Rig For Open Use

#### 技术参数 / Technical Parameters

钻车型号 /Model of drill rig	KG320	KG320H
整机重量 /Weight of complete machine	4500KG	4700KG
外形尺寸 /Outer dimensions	6050 × 2360 × 2700mm	6050 × 2360 × 2700mm
凿岩硬度 /Drilling hardness	f=6-20	
钻孔孔径 /Drilling diameter	Φ80-105mm	
经济钻深 /Depth of economical drilling	25m	
回转转速 /Rotary speed	0-140rpm	
最大回转扭矩 /Rotary torque (Max)	1850N·m (Max)	
提升力 /Lifting force	20KN	
推进方式 /Method of Feed	油缸+板式链 /Oil cylinder+eaf chain	
推进行程 /Feed stroke	3820mm	
行走速度 /Travelling speed	0-2.2km/h	
爬坡能力 /Climbing capacity	≤30°	
离地间隙 /Ground clearance	465mm	
滑架俯仰角度 /Tilt angle of Beam	俯135° 仰50° 共185° /Down: 135°, up: 50°, total: 185°	
滑架摆动角度 /Swing angle of boom	左100° 右45° 共145° /Left: 100°, right: 45°, total: 145°	
钻臂俯仰角度 /Pitch angle of drill boom	俯50° 仰25° 共75° /Down: 50°, up: 25°, total: 75°	
钻臂摆动角度 /Swing angle of drill boom	左44° 右45° 共89° /Left: 44°, right: 45°, total: 89°	
滑架补偿长度 /Compensation length of beam	900mm	
配套动力 /Supporting power	玉柴动力YCD4R23T8-80 (59KW/2400r/min) /Yuchai YCD4R23T8-80 (59KW/2400r/min)	
冲击器 /DTH hammer	M30	
钻杆 /Drilling rod	Φ64 × 3m	
耗风量 /Air consumption	7-15m³/min	
最高水平孔高度 /Maximum height of horizontal hole	2750mm	
最低水平孔高度 /Minimum height of horizontal hole	350mm	

#### ▲ 配套空压机方案推荐 /Recommended Air Compressors

柴油移动式螺杆压缩机: 开山 LGCY-12/10  
开山 KSCY-550/13

Diesel engine portable screw air compressor: Kaishan LGCY-12/10  
Kaishan KSCY-550/13

注: 根据孔径大小及空气管路远近选配空压机

Note: Air compressor selection subject to hole diameter and air hose length

## KG410/KG410H型露天潜孔钻车

### KG410/KG410H Down The Hole Drill Rig For Open Use

KG410/KG410H型露天潜孔钻车是应国家对柴油机排放要求进行升级的一款设备。配备有玉柴动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用折边履带架和工程四轮一带，柱塞行走马达，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。采用双马达回转，增大回转扭矩和转速，加大提升油缸和链条，提高提升力和可靠性。罩壳采用加厚型材折边，增加其强度和刚性。增加起吊吊环，方便装卸吊装。

The KG410/KG410H down the hole drill rig for open use is an improved device in compliance with national regulations on diesel-engine emissions. Equipped with the Yuchai four-cylinder engine (China III), the drill rig meets national standards for emissions and environment. The folding frame track, four-wheel drive and tramming motor of plunger piston improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements on extreme position. The double-motor rotation increases the rotary torque and revolving speed; and the lifting hydraulic cylinder and chain are expanded to promote the lifting force and reliability. The thickened profile folder is used for the housing, thus improving its level of intensity and rigidity; and the additional ring makes handling and lifting convenient.

KG410H型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG410H down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### 技术参数 / Technical Parameters

钻车型号 / Model of drill rig	KG410	KG410H
整机重量 / Weight of complete machine	4500KG	4700KG
外形尺寸 / Outer dimensions	6150 × 2350 × 2700mm	6150 × 2350 × 2700mm
凿岩硬度 / Drilling hardness	f=6-20	
钻孔孔径 / Drilling diameter	Φ90-115mm	
经济钻深 / Depth of economical drilling	25m	
回转转速 / Rotary speed	0-120rpm	
最大回转扭矩 / Rotary torque (Max)	2000N · m (Max)	
提升力 / Lifting force	40KN	
推进方式 / Method of Feed	油缸+板式链 / Oil cylinder+leaf chain	
推进行程 / Feed stroke	3980mm	
行走速度 / Travelling speed	0-2.5km/h	
爬坡能力 / Climbing capacity	≤30°	
离地间隙 / Ground clearance	280mm	
滑架俯仰角度 / Tilt angle of Beam	俯135° 仰50° 共185° / Down: 135°, up: 50°, total: 185°	
滑架摆动角度 / Swing angle of boom	左100° 右45° 共145° / Left: 100°, right: 45°, total: 145°	
钻臂俯仰角度 / Pitch angle of drill boom	俯50° 仰25° 共75° / Down: 50°, up: 25°, total: 75°	
钻臂摆动角度 / Swing angle of drill boom	左44° 右45° 共89° / Left: 44°, right: 45°, total: 89°	
滑架补偿长度 / Compensation length of beam	900mm	
配套动力 / Supporting power	玉柴动力YCD4R23T8-80 (59KW/2400r/min) / Yuchai YCD4R23T8-80 (59KW/2400r/min)	
冲击器 / DTH hammer	M30	
钻杆 / Drilling rod	Φ64 × 3m	
耗风量 / Air consumption	10-17m³/min	
最高水平孔高度 / Maximum height of horizontal hole	2840mm	
最低水平孔高度 / Minimum height of horizontal hole	350mm	

#### ▲ 配套空压机方案推荐 / Recommended Air Compressors

柴油移动型螺杆压缩机：开山 LGCY-12/10  
开山 KSCY-550/13

Diesel engine portable screw air compressor: Kaishan LGCY-12/10  
Kaishan KSCY-550/13

注：根据孔径大小及空气管路远近选配空压机  
Note: Air compressor selection subject to hole diameter and air hose length

#### ▲ KG410H型 露天潜孔钻车

KG410H Down The Hole Drill Rig For Open Use

## KG420/KG420H型露天潜孔钻车

### KG420/KG420H Down The Hole Drill Rig For Open Use

KG420/KG420H型露天潜孔钻车是应国家对柴油机排放要求进行升级改造的一款设备。配备有玉柴动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用折边履带架和工程四轮一带，增加履带调平，柱塞行走马达，提高工作压力，增大回转扭矩和转速，加大提升油缸和链条，提高提升力和可靠性。罩壳采用加厚型材折边，增加其强度和刚性。增加起吊吊环，方便装卸吊装。

The KG420/KG420H down the hole drill rig for open use is an improved device in compliance with national regulations on diesel-engine emissions. Equipped with the Yuchai four-cylinder engine (China III), the drill rig meets national standards for emissions and environment. The folding frame track and four-wheel drive are adopted; Add track leveling cylinders and the plunger piston tramming motor improves the working pressure and increase the rotary torque and revolving speed; and the lifting oil cylinder and chain are expanded to promote the lifting force and reliability. The thickened profile folder is used for the housing, thus improving its level of intensity and rigidity; and the additional ring makes handling and lifting convenient.

KG420H型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG420H down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### ▲ KG420H型 露天潜孔钻车

KG420H Down The Hole Drill Rig For Open Use

#### 技术参数 / Technical Parameters

钻车型号 / Model of drill rig	KG420	KG420H
整机重量 / Weight of complete machine	5200KG	5700KG
外形尺寸 / Outer dimensions	5900 × 2250 × 2700mm	6200 × 2250 × 2700mm
凿岩硬度 / Drilling hardness	f=6-20	
钻孔孔径 / Drilling diameter	Φ90-152mm	
经济钻深 / Depth of economical drilling	20m	
回转转速 / Rotary speed	0-90rpm	
最大回转扭矩 / Rotary torque (Max)	5000N·m (Max)	
提升力 / Lifting force	40KN	
推进方式 / Method of Feed	油缸+滚子链 / Oil cylinder+roller chain	
推进行程 / Feed stroke	3175mm	
行走速度 / Travelling speed	0-2.5km/h	
爬坡能力 / Climbing capacity	≤30°	
离地间隙 / Ground clearance	500mm	
滑架俯仰角度 / Tilt angle of Beam	俯110° 仰35° 共145° / Down: 110°, up: 35°, total: 145°	
滑架摆动角度 / Swing angle of boom	左91° 右5° 共96° / Left: 91°, right: 5°, total: 96°	
钻臂俯仰角度 / Pitch angle of drill boom	俯55° 仰15° 共70° / Down: 55°, up: 15°, total: 70°	
钻臂摆动角度 / Swing angle of drill boom	左32° 右32° 共64° / Left: 32°, right: 32°, total: 64°	
履带调平角度 / Leveling angle of track	± 10°	
滑架补偿长度 / Compensation length of beam	900mm	
配套动力 / Supporting power	玉柴股份YC4DK80-T302 (58KW/2200r/min) KG420 / Yuchai YC4DK80-T302 (58KW/2200r/min) KG420 玉柴股份YC4DK100-T304 (73KW/2200r/min) KG420H / Yuchai YC4DK100-T304 (73KW/2200r/min) KG420H	
冲击器 / DTH hammer	K40	
钻杆 / Drilling rod	Φ76 × 2m + Φ76 × 3m	
耗风量 / Air consumption	13-20m³/min	
最高水平孔高度 / Maximum height of horizontal hole	2750mm	
最低水平孔高度 / Minimum height of horizontal hole	350mm	

#### ▲ 配套空压机方案推荐 / Recommended Air Compressors

柴油移动型螺杆压缩机: 开山 LGCY-13/13  
 开山 KSCY-580/13  
 开山 LGCY-18/17

Diesel engine portable screw air compressor: Kaishan LGCY-13/13  
 Kaishan KSCY-580/13  
 Kaishan LGCY-18/17

注: 根据孔径大小及空气管路远近选配空压机  
 Note: Air compressor selection subject to hole diameter and air hose length



## KG420S/KG420SH型露天潜孔钻车

### KG420S/KG420SH Down The Hole Drill Rig For Open Use

KG420S/KG420SH型露天潜孔钻车是应国家对柴油机排放要求进行升级改进的一款设备。该款钻车配备柴油机和电动机两种独立的系统，可分开操作。采用折边履带架和工程四轮一带，柱塞行走马达，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。采用双马达回转，增大回转扭矩和转速，加大提升油缸和链条，提高提升力和可靠性。罩壳采用加厚型材折边，增加其强度和刚性。增加起吊吊环，方便装卸吊装。

The KG420S/KG420SH down the hole drill rig for open use is an improved device in compliance with national regulations on diesel-engine emissions. The drill rig is equipped with the two independent systems, namely diesel engine and motor, capable of separate operations. The folding frame track, four-wheel drive and the trammng motor of plunger piston improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements on limiting position. The double rotation motor increases the rotary torque and revolving speed; and the lifting hydraulic cylinder and chain are expanded to promote the lifting force and reliability. The thickened profile folder is used for the housing, thus improving its level of intensity and rigidity; and the additional ring makes handling and lifting convenient.

KG420SH型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG420SH down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



▲ **KG420SH型 露天潜孔钻车**  
 KG420SH Down The Hole Drill Rig For Open Use

### 技术参数 / Technical Parameters

钻车型号 / Model of drill rig	KG420S	KG420SH
整机重量 / Weight of complete machine	5800KG	6100KG
外形尺寸 / Outer dimensions	6400 × 2250 × 2700mm	6400 × 2420 × 2700mm
凿岩硬度 / Drilling hardness	f=6-20	
钻孔孔径 / Drilling diameter	Φ90-152mm	
经济钻深 / Depth of economical drilling	25m	
回转转速 / Rotary speed	0-90rpm	
最大回转扭矩 / Rotary torque (Max)	5000N · m (Max)	
提升力 / Lifting force	40KN	
推进方式 / Method of Feed	油缸+滚子链 / Oil cylinder+roller chain	
推进行程 / Feed stroke	3175mm	
行走速度 / Travelling speed	0-2.5km/h	
爬坡能力 / Climbing capacity	≤30°	
离地间隙 / Ground clearance	515mm	
滑架俯仰角度 / Tilt angle of Beam	俯110° 仰35° 共145° / Down: 110°, up: 35°, total: 145°	
滑架摆动角度 / Swing angle of boom	左91° 右5° 共96° / Left: 91°, right: 5°, total: 96°	
钻臂俯仰角度 / Pitch angle of drill boom	俯55° 仰15° 共70° / Down: 55°, up: 15°, total: 70°	
钻臂摆动角度 / Swing angle of drill boom	左32° 右32° 共64° / Left: 32°, right: 32°, total: 64°	
滑架补偿长度 / Compensation length of beam	1220mm	
配套动力 / Supporting power	玉柴股份YC4DK80-T302 (58KW/2200r/min) / Yuchai YC4DK80-T302 (58KW/2200r/min) 电动机 (55kw/1460r/min) / Motor (55kw/1460r/min)	
冲击器 / DTH hammer	K40	
钻杆 / Drilling rod	Φ76 × 2m + Φ76 × 3m	
耗风量 / Air consumption	13-20m³/min	
最高水平孔高度 / Maximum height of horizontal hole	2850mm	
最低水平孔高度 / Minimum height of horizontal hole	350mm	



### ▲ 配套空压机方案推荐 / Recommended Air Compressors

柴油移动型螺杆压缩机: 开山 LGCY-13/13  
 开山 KSCY-580/13  
 开山 LGCY-18/17

Diesel engine portable screw air compressor: Kaishan LGCY-13/13  
 Kaishan KSCY-580/13  
 Kaishan LGCY-18/17

注: 根据孔径大小及空气管路远近选配空压机  
 Note: Air compressor selection subject to hole diameter and air hose length



## KG430/KG430H型露天潜孔钻车

### KG430/KG430H Down The Hole Drill Rig For Open Use

KG430/KG430H型露天潜孔钻车是应国家对柴油机排放要求进行升级改造的一款设备。配备有玉柴动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用折边履带架和工程四轮一带，增加履带调平，柱塞行走马达，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。采用双马达回转，增大回转扭矩和转速，加大提升油缸和链条，提高提升力和可靠性。罩壳采用加厚型材折边，增加其强度和刚性。增加起吊吊环，方便装卸吊装。

The KG430/KG430H down the hole drill rig for open use is an improved device in compliance with national regulations on diesel-engine emissions. Equipped with the Yuchai four-cylinder engine (China III), the drill rig meets national standards for emissions and environment. The folding frame track, four-wheel drive are adopted; and track leveling and the tramming motor of plunger piston improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements of limiting position. The double rotation motor increases the rotary torque and revolving speed; and the lifting hydraulic cylinder and chain are expanded to promote the lifting force and reliability. The thickened profile folder is used for the housing, thus improving its level of intensity and rigidity; and the additional ring makes handling and lifting convenient.

KG430H型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG430H down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### ▲ KG430H型 露天潜孔钻车

KG430H Down The Hole Drill Rig For Open Use

#### 技术参数 / Technical Parameters

钻车型号 / Model of drill rig	KG430	KG430H
整机重量 / Weight of complete machine	5250KG	5700KG
外形尺寸 / Outer dimensions	6300 × 2250 × 2700mm	6300 × 2400 × 2700mm
凿岩硬度 / Drilling hardness	f=6-20	
钻孔孔径 / Drilling diameter	Φ90-152mm	
经济钻深 / Depth of economical drilling	25m	
回转转速 / Rotary speed	0-90rpm	
最大回转扭矩 / Rotary torque (Max)	5000N · m (Max)	
提升力 / Lifting force	40KN	
推进方式 / Method of Feed	油缸+滚子链 / Oil cylinder+roller chain	
推进行程 / Feed stroke	3175mm	
行走速度 / Travelling speed	0-2.5km/h	
爬坡能力 / Climbing capacity	≤30°	
离地间隙 / Ground clearance	500mm	
滑架俯仰角度 / Tilt angle of Beam	俯110° 仰35° 共145° / Down: 110°, up: 35°, total: 145°	
滑架摆动角度 / Swing angle of boom	左91° 右5° 共96° / Left: 91°, right: 5°, total: 96°	
钻臂俯仰角度 / Pitch angle of drill boom	俯55° 仰15° 共70° / Down: 55°, up: 15°, total: 70°	
钻臂摆动角度 / Swing angle of drill boom	左32° 右32° 共64° / Left: 32°, right: 32°, total: 64°	
履带调平角度 / Leveling angle of track	± 10°	
滑架补偿长度 / Compensation length of beam	900mm	
配套动力 / Supporting power	玉柴股份YC4DK80-T302 (58KW/2200r/min) KG430 / Yuchai YC4DK80-T302 (58KW/2200r/min) KG430 玉柴股份YC4DK100-T304 (73KW/2200r/min) KG430H / Yuchai YC4DK100-T304 (73KW/2200r/min) KG430H	
冲击器 / DTH hammer	K40	
钻杆 / Drilling rod	Φ76 × 2m + Φ76 × 3m	
耗风量 / Air consumption	13-20m³/min	
最高水平孔高度 / Maximum height of horizontal hole	2850mm	
最低水平孔高度 / Minimum height of horizontal hole	350mm	

#### ▲ 配套空压机方案推荐 / Recommended Air Compressors

柴油移动型螺杆压缩机: 开山 KSCY-550/13  
开山 KSCY-580/13

Diesel engine portable screw air compressor: Kaishan KSCY-550/13  
Kaishan KSCY-580/13

注: 根据孔径大小及空气管路远近选配空压机  
Note: Air compressor selection subject to hole diameter and air hose length



## KG430S/KG430SH型露天潜孔钻车

### KG430S/KG430SH Down The Hole Drill Rig For Open Use

KG430S/KG430SH型露天潜孔钻车是应国家对柴油机排放要求进行升级改进的一款设备。该款钻车配备柴油机和电动机两种独立的系统，可分开操作。采用折边履带架和工程四轮一带，柱塞行走马达，增加履带调平，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。采用双马达回转，增大回转扭矩和转速，加大提升油缸和链条，提高提升力和可靠性。罩壳采用加厚型材折边，增加其强度和刚性。增加起吊吊环，方便装卸吊装。

The KG430S/KG430SH down the hole drill rig for open use is an improved device in compliance with national regulations on diesel-engine emissions. The drill rig is equipped with the two independent systems, namely diesel engine and motor, capable of separate operations. The folding frame track and four-wheel drive are adopted; and the walking motor of plunger piston and track leveling improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements of limiting position. The double rotation motor increases the rotary torque and revolving speed; and the lifting hydraulic cylinder and chain are expanded to promote the lifting force and reliability. The thickened profile folder is used for the housing, thus improving its level of intensity and rigidity; and the additional ring makes handling and lifting convenient.

KG430SH型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG430SH down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



▲ **KG430SH型 露天潜孔钻车**

KG430SH Down The Hole Drill Rig For Open Use

#### 技术参数 / Technical Parameters

钻车型号 / Model of drill rig	KG430S	KG430SH
整机重量 / Weight of complete machine	6000KG	6200KG
外形尺寸 / Outer dimensions	6700 × 2200 × 2700mm	6700 × 2400 × 2700mm
凿岩硬度 / Drilling hardness	f=6-20	
钻孔孔径 / Drilling diameter	Φ90-152mm	
经济钻深 / Depth of economical drilling	25m	
回转转速 / Rotary speed	0-90rpm	
最大回转扭矩 / Rotary torque (Max)	5000N·m (Max)	
提升力 / Lifting force	40KN	
推进方式 / Method of Feed	油缸+滚子链 / Oil cylinder+roller chain	
推进行程 / Feed stroke	3980mm	
行走速度 / Travelling speed	0-2.5km/h	
爬坡能力 / Climbing capacity	≤30°	
离地间隙 / Ground clearance	515mm	
滑架俯仰角度 / Tilt angle of Beam	俯110° 仰35° 共145° / Down: 110°, up: 35°, total: 145°	
滑架摆动角度 / Swing angle of boom	左91° 右5° 共96° / Left: 91°, right: 5°, total: 96°	
钻臂俯仰角度 / Pitch angle of drill boom	俯55° 仰15° 共70° / Down: 55°, up: 15°, total: 70°	
钻臂摆动角度 / Swing angle of drill boom	左32° 右32° 共64° / Left: 32°, right: 32°, total: 64°	
履带调平角度 / Leveling angle of track	±10°	
滑架补偿长度 / Compensation length of beam	900mm	
配套动力 / Supporting power	玉柴股份YC4DK80-T302 (58KW/2200r/min) / Yuchai YC4DK80-T302 (58KW/2200r/min) 电动机Y250M-4 (55kw/1460r/min) / Motor Y250M-4 (55kw/1460r/min)	
冲击器 / DTH hammer	K40	
钻杆 / Drilling rod	Φ76 × 3m	
耗风量 / Air consumption	13-20m³/min	
最高水平孔高度 / Maximum height of horizontal hole	3700mm	
最低水平孔高度 / Minimum height of horizontal hole	350mm	

#### ▲ 配套空压机方案推荐 / Recommended Air Compressors

柴油移动式螺杆压缩机: 开山 LGCY-18/17  
开山 LGCY-19.5/19

Diesel engine portable screw air compressor: Kaishan LGCY-18/17  
Kaishan LGCY-19.5/19

注: 根据孔径大小及空气管路远近选配空压机

Note: Air compressor selection subject to hole diameter and air hose length

## KG510/KG510H型露天潜孔钻车

### KG510/KG510H Down The Hole Drill Rig For Open Use

KG510/KG510H型露天潜孔钻车是应国家对柴油机排放要求进行升级的一款设备。配备有玉柴动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用折边履带架和工程四轮一带，履带调平，柱塞行走马达，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。采用双马达回转，增大回转扭矩和转速，加大提升油缸和链条，提高提升力和可靠性。加大集尘器，提高吸尘效果。罩壳采用加厚型材折边，增加其强度和刚性。增加起吊环，方便装卸吊装。

The KG510/KG510H down the hole drill rig for open use is an improved device in compliance with national regulations on diesel-engine emissions. Equipped with the Yuchai four-cylinder engine (China III), the drill rig meets national standards for emissions and environment. The folding frame track and four-wheel drive are adopted; and track leveling and the walking motor of plunger piston improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements of limiting position. The double-motor rotation increases the rotary torque and revolving speed; and the lifting hydraulic cylinder and chain are expanded to promote the lifting force and reliability. The dust collector is enlarged to produce a better effect on dust collection. The thickened profile folder is used for the housing, thus improving its level of intensity and rigidity; and the additional ring makes handling and lifting convenient.

KG510H型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG510H down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### 技术参数 / Technical Parameters

钻车型号 / Model of drill rig	KG510	KG510H
整机重量 / Weight of complete machine	6500KG	7000KG
外形尺寸 / Outer dimensions	6800 × 2200 × 2850mm	6800 × 2450 × 2850mm
凿岩硬度 / Drilling hardness	f=6-20	
钻孔孔径 / Drilling diameter	Φ105-152mm	
经济钻深 / Depth of economical drilling	25m	
回转转速 / Rotary speed	0-110rpm	
最大回转扭矩 / Rotary torque (Max)	3500N · m (Max)	
提升力 / Lifting force	40KN	
推进方式 / Method of Feed	油缸+滚子链 / Oil cylinder+roller chain	
推进行程 / Feed stroke	3000mm	
行走速度 / Travelling speed	0-3.5km/h	
爬坡能力 / Climbing capacity	≤30°	
离地间隙 / Ground clearance	440mm	
滑架俯仰角度 / Tilt angle of Beam	俯135° 仰50° 共185° / Down: 135°, up: 50°, total: 185°	
滑架摆动角度 / Swing angle of boom	左50° 右50° 共100° / Left: 50°, right: 50°, total: 100°	
钻臂俯仰角度 / Pitch angle of drill boom	俯50° 仰25° 共75° / Down: 50°, up: 25°, total: 75°	
钻臂摆动角度 / Swing angle of drill boom	左45° 右45° 共90° / Left: 45°, right: 45°, total: 90°	
履带调平角度 / Leveling angle of track	± 10°	
滑架补偿长度 / Compensation length of beam	900mm	
配套动力 / Supporting power	玉柴股份YC4DK80-T302 (58KW/2200r/min) / Yuchai YC4DK80-T302 (58KW/2200r/min)	
冲击器 / DTH hammer	K40	
钻杆 / Drilling rod	Φ76 × 3m或Φ89 × 3m/Φ76×3m或Φ89×3m	
耗风量 / Air consumption	13-22m³/min	
最高水平孔高度 / Maximum height of horizontal hole	3700mm	
最低水平孔高度 / Minimum height of horizontal hole	350mm	

#### ▲ 配套空压机方案推荐 / Recommended Air Compressors

柴油移动型螺杆压缩机: 开山 LGCY-18/17  
开山 LGCY-19.5/19

Diesel engine portable screw air compressor: Kaishan LGCY-18/17  
Kaishan LGCY-19.5/19

注: 根据孔径大小及空气管路远近选配空压机

Note: Air compressor selection subject to hole diameter and air hose length

#### ▲ KG510H型 露天潜孔钻车

KG510H Down The Hole Drill Rig For Open Use

## KG520/KG520H型露天潜孔钻车

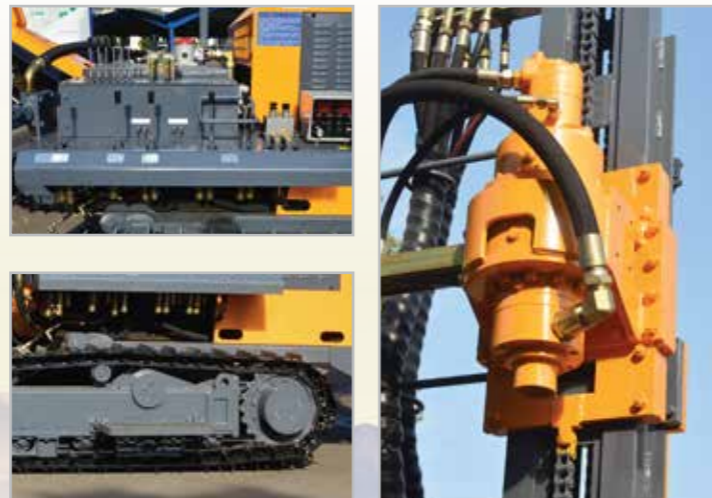
### KG520/KG520H Down The Hole Drill Rig For Open Use

KG520/KG520H型露天潜孔钻车是应国家对柴油机排放要求进行升级的一款设备。配备有玉柴动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用折边履带架和工程四轮一带，履带调平，柱塞行走马达，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。增大回转扭矩和转速，采用推进马达和链条推进提升，提高提升力和可靠性。加大集尘器，提高吸尘效果。罩壳采用加厚型材折边，增加其强度和刚性。增加起吊吊环，方便装卸吊装。

The KG520/KG520H down the hole drill rig for open use is an improved device in compliance with national regulations on diesel-engine emissions. Equipped with the Yuchai four-cylinder engine (China III), the drill rig meets national standards for emissions and environment. The folding frame track and four-wheel drive are adopted; and track leveling and the walking motor of plunger piston improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements of limiting position. The rotary torque and revolving speed are raised; the propulsion motor and chain are used to raise the lifting force and reliability. The dust collector is enlarged to produce a better effect on dust collection. The thickened profile folder is used for the housing, thus improving its level of intensity and rigidity; and the additional ring makes handling and lifting convenient.

KG520H型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG520H down-hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### ▲ KG520H型 露天潜孔钻车

KG520H Down The Hole Drill Rig For Open Use

#### 技术参数 / Technical Parameters

钻车型号 /Model of drill rig	KG520	KG520H
整机重量 /Weight of complete machine	6500KG	7000KG
外形尺寸 /Outer dimensions	6800 × 2200 × 2850mm	6800 × 2250 × 2850mm
凿岩硬度 /Drilling hardness	f=6-20	
钻孔孔径 /Drilling diameter	Φ105-152mm	
经济钻深 /Depth of economical drilling	25m	
回转转速 /Rotary speed	0-100rpm	
最大回转扭矩 /Rotary torque (Max)	4000N · m (Max)	
提升力 /Lifting force	25KN	
推进方式 /Method of Feed	马达+滚子链 /Motor+oller chain	
推进行程 /Feed stroke	4150mm	
行走速度 /Travelling speed	0-4km/h	
爬坡能力 /Climbing capacity	≤30°	
离地间隙 /Ground clearance	440mm	
滑架俯仰角度 /Tilt angle of Beam	俯135° 仰50° 共185° /Down: 135°, up: 50°, total: 185°	
滑架摆动角度 /Swing angle of boom	左50° 右50° 共100° /Left: 50°, right: 50°, total: 100°	
钻臂俯仰角度 /Pitch angle of drill boom	俯50° 仰25° 共75° /Down: 50°, up: 25°, total: 75°	
钻臂摆动角度 /Swing angle of drill boom	左45° 右45° 共90° /Left: 45°, right: 45°, total: 90°	
履带调平角度 /Leveling angle of track	± 10°	
滑架补偿长度 /Compensation length of beam	900mm	
配套动力 /Supporting power	玉柴股份YC4DK100-T304(73KW/2200r/min) /Yuchai YC4DK100-T304(73KW/2200r/min)	
冲击器 /DTH hammer	K40	
钻杆 /Drilling rod	Φ76 × 3m或Φ89 × 3m/Φ76×3m or Φ89×3m	
耗风量 /Air consumption	15-22m³/min	
最高水平孔高度 /Maximum height of horizontal hole	3500mm	
最低水平孔高度 /Minimum height of horizontal hole	350mm	

#### ▲ 配套空压机方案推荐 /Recommended Air Compressors

柴油移动式螺杆压缩机: 开山 LGCY-18/17  
 开山 LGCY-19.5/19  
 开山 KSCY-750/20

Diesel engine portable screw air compressor: Kaishan LGCY-18/17  
 Kaishan LGCY-19.5/19  
 Kaishan KSCY-750/20

注: 根据孔径大小及空气管路远近选配空压机

Note: Air compressor selection subject to hole diameter and air hose length

## KG590/KG590H型露天潜孔钻车

### KG590/KG590H Down The Hole Drill Rig For Open Use

KG590/KG590H型露天潜孔钻车是应国家对柴油机排放要求进行升级的一款设备。配备有玉柴动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用折边履带架和工程四轮一带，履带调平，柱塞行走马达，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。增大回转扭矩和转速，采用推进马达和链条推进提升，提高提升力和可靠性。加大集尘器，提高吸尘效果。罩壳采用加厚型材折边，增加其强度和刚性。增加起吊吊环，方便装卸吊装。

The KG590/KG590H down the hole drill rig for open use is an improved device in compliance with national regulations on diesel-engine emissions. Equipped with the Yuchai four-cylinder engine (China III), the drill rig meets national standards for emissions and environment. The folding frame track and four-wheel drive are adopted; and track leveling and the walking motor of plunger piston improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements of limiting position. The rotary torque and revolving speed are raised; the propulsion motor and chain are used to raise the lifting force and reliability. The dust collector is enlarged to produce a better effect on dust collection. The thickened profile folder is used for the housing, thus improving its level of intensity and rigidity; and the additional ring makes handling and lifting convenient.

KG590H型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG590H down-hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### ▲ KG590H型 露天潜孔钻车

KG590H Down The Hole Drill Rig For Open Use

#### 技术参数 / Technical Parameters

钻车型号 /Model of drill rig	KG590	KG590H
整机重量 /Weight of complete machine	7000KG	7200KG
外形尺寸 /Outer dimensions	7100×2300×2700mm	7100×2500×2700mm
凿岩硬度 /Drilling hardness	f=6-20	
钻孔孔径 /Drilling diameter	Φ105-152mm	
经济钻深 /Depth of economical drilling	25m	
回转转速 /Rotary speed	0-100rpm	
最大回转扭矩 /Rotary torque (Max)	5000N·m (Max)	
提升力 /Lifting force	25KN	
推进方式 /Method of Feed	马达+滚子链 /Motor+roller chain	
推进行程 /Feed stroke	4150mm	
行走速度 /Travelling speed	0-3.5km/h	
爬坡能力 /Climbing capacity	≤30°	
离地间隙 /Ground clearance	440mm	
滑架俯仰角度 /Tilt angle of Beam	俯135° 仰50° 共185° /Down: 135°, up: 50°, total: 185°	
滑架摆动角度 /Swing angle of boom	左50° 右50° 共100° /Left: 50°, right: 50°, total: 100°	
钻臂俯仰角度 /Pitch angle of drill boom	俯50° 仰25° 共75° /Down: 50°, up: 25°, total: 75°	
钻臂摆动角度 /Swing angle of drill boom	左45° 右45° 共90° /Left: 45°, right: 45°, total: 90°	
履带调平角度 /Leveling angle of track	±10°	
滑架补偿长度 /Compensation length of beam	900mm	
配套动力 /Supporting power	玉柴股份YC4DK100-T304(73KW/2200r/min) /Yuchai YC4DK100-T304(73KW/2200r/min)	
冲击器 /DTH hammer	K40	
钻杆 /Drilling rod	Φ76×3m或Φ89×3m /Φ76×3m orΦ89×3m	
耗风量 /Air consumption	15-22m³/min	
最高水平孔高度 /Maximum height of horizontal hole	3500mm	
最低水平孔高度 /Minimum height of horizontal hole	350mm	

#### ▲ 配套空压机方案推荐 /Recommended Air Compressors

柴油移动式螺杆压缩机: 开山 LGCY-18/17  
 开山 LGCY-19.5/19  
 开山 KSCY-750/20

Diesel engine portable screw air compressor: Kaishan LGCY-18/17  
 Kaishan LGCY-19.5/19  
 Kaishan KSCY-750/20

注: 根据孔径大小及空气管路远近选配空压机

Note: Air compressor selection subject to hole diameter and air hose length



## KG610/KG610H型露天潜孔钻车

### KG610/KG610H Down The Hole Drill Rig For Open Use

KG610/KG610H型露天潜孔钻车是应国家对柴油机排放要求进行升级的一款设备。配备有康明斯动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用折边履带架和工程四轮一带，履带调平，进口柱塞行走马达，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。采用双马达回转，增大回转扭矩和转速，加大提升油缸和链条，提高提升力和可靠性。加大集尘器，提高吸尘效果。罩壳采用加厚型材折边，增加其强度和刚性。增加起吊吊环，方便装卸吊装。

The KG610/KG610H down the hole drill rig for open use is an improved device in compliance with national regulations on diesel-engine emissions. Equipped with the Cummins four-cylinder engine (China III), the drill rig meets national standards for emissions and environment. The folding frame track and four-wheel drive are adopted; and track leveling and the imported walking motor of plunger piston improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements of limiting position. The double-motor is installed to raise the rotary torque and revolving speed; the lifting hydraulic cylinder and chain are expanded to raise the lifting force and reliability. The dust collector is enlarged to produce a better effect on dust collection. The thickened profile folder is used for the housing, thus improving its level of intensity and rigidity; and the additional ring makes handling and lifting convenient.

KG610H型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG610H down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### 技术参数 / Technical Parameters

钻车型号 / Model of drill rig	KG610	KG610H
整机重量 / Weight of complete machine	7100KG	7600KG
外形尺寸 / Outer dimensions	6700 × 2250 × 2850mm	6700 × 2800 × 2850mm
凿岩硬度 / Drilling hardness	f=6-20	
钻孔孔径 / Drilling diameter	Φ105-202mm	
经济钻深 / Depth of economical drilling	40m	
回转转速 / Rotary speed	0-110rpm	
最大回转扭矩 / Rotary torque (Max)	5000N · m (Max)	
提升力 / Lifting force	25KN	
推进方式 / Method of Feed	马达+滚子链 / Motor+roller chain	
推进行程 / Feed stroke	3000mm	
行走速度 / Travelling speed	0-4km/h	
爬坡能力 / Climbing capacity	≤30°	
离地间隙 / Ground clearance	440mm	
滑架俯仰角度 / Tilt angle of Beam	俯135° 仰50° 共185° / Down: 135°, up: 50°, total: 185°	
滑架摆动角度 / Swing angle of boom	左40° 右40° 共80° / Left: 40°, right: 40°, total: 80°	
钻臂俯仰角度 / Pitch angle of drill boom	俯55° 仰25° 共80° / Down: 55°, up: 25°, total: 80°	
钻臂摆动角度 / Swing angle of drill boom	左45° 右45° 共90° / Left: 45°, right: 45°, total: 90°	
履带调平角度 / Leveling angle of track	±8°	
滑架补偿长度 / Compensation length of beam	1200mm	
配套动力 / Supporting power	康明斯QSB3.9-C125(92KW/2200r/min) / Cummins QSB3.9-C125(92KW/2200r/min)	
冲击器 / DTH hammer	K50	
钻杆 / Drilling rod	Φ89 × 3m/Φ89 × 3m	
耗风量 / Air consumption	15-26m³/min	
最高水平孔高度 / Maximum height of horizontal hole	2850mm	
最低水平孔高度 / Minimum height of horizontal hole	500mm	

#### ▲ 配套空压机方案推荐 / Recommended Air Compressors

柴油移动式螺杆压缩机: 开山 LGCY-18/17  
 开山 LGCY-19.5/19  
 开山 KSCY-750/20

Diesel engine portable screw air compressor: Kaishan LGCY-18/17  
 Kaishan LGCY-19.5/19  
 Kaishan KSCY-750/20

注: 根据孔径大小及空气管路远近选配空压机

Note: Air compressor selection subject to hole diameter and air hose length

#### ▲ KG610型 露天潜孔钻车

KG610 Down The Hole Drill Rig For Open Use

## KG726III/KG726HIII型露天潜孔钻车

### KG726III/KG726HIII Down The Hole Drill Rig For Open Use

KG726III/KG726HIII型露天潜孔钻车是应国家对环保要求而进行升级的一款设备。配备有玉柴动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用柱塞行走马达，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。同时对液压系统升级，增大其系统流量，提高回转转速。对提升油缸进行优化，提高其可靠性。导轨采用倾斜安装，方便操作和观察。罩壳采用加厚型材，增加起吊吊环，方便装卸吊装。

The KG726III/KG726HIII down the hole drill rig for open use is an improved device in compliance with national regulations on environmental protection. Equipped with the Yuchai engine (China III), the drill rig meets national standards for emissions and environment. The tramming motor of plunger piston and four-wheel drive improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements of limiting position use. Meanwhile, the hydraulic system is improved, thereby proving increased system flow and rotary speed. The hydraulic cylinder has been optimized, thus making it more reliable. The guide rail is installed in an inclined way, making operations and observations easier. The thickened profile is used for the housing; and the additional ring makes handling and lifting convenient.

KG726HIII型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG726HIII down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### ▲ KG726HIII型 露天潜孔钻车

KG726HIII Down The Hole Drill Rig For Open Use

#### 技术参数 / Technical Parameters

钻车型号 / Model of drill rig	KG726III	KG726HIII
整机重量 / Weight of complete machine	4200KG	4400KG
外形尺寸 / Outer dimensions	5600 × 2400 × 2300mm	5600 × 2600 × 2300mm
凿岩硬度 / Drilling hardness	f=6-20	
钻孔孔径 / Drilling diameter	Φ90-115mm	
经济钻深 / Depth of economical drilling	25m	
回转转速 / Rotary speed	0-120rpm	
最大回转扭矩 / Rotary torque (Max)	2000N·m (Max)	
提升力 / Lifting force	18KN	
推进方式 / Method of Feed	油缸+板式链 / Oil cylinder+eaf chain	
推进行程 / Feed stroke	3780mm	
行走速度 / Travelling speed	0-2.5km/h	
爬坡能力 / Climbing capacity	≤30°	
离地间隙 / Ground clearance	350mm	
滑架俯仰角度 / Tilt angle of Beam	俯135° 仰50° 共185° / Down: 135°, up: 50°, total: 185°	
滑架摆动角度 / Swing angle of boom	左100° 右45° 共145° / Left: 100°, right: 45°, total: 145°	
钻臂俯仰角度 / Pitch angle of drill boom	俯50° 仰25° 共75° / Down: 50°, up: 25°, total: 75°	
钻臂摆动角度 / Swing angle of drill boom	左44° 右45° 共89° / Left: 44°, right: 45°, total: 89°	
滑架补偿长度 / Compensation length of beam	900mm	
配套动力 / Supporting power	玉柴动力YCD4R23T8-80 (59KW/2400r/min) / Yuchai YCD4R23T8-80 (59KW/2400r/min)	
冲击器 / DTH hammer	M30	
钻杆 / Drilling rod	Φ64 × 3m	
耗风量 / Air consumption	9-17m³/min	
最高水平孔高度 / Maximum height of horizontal hole	2750mm	
最低水平孔高度 / Minimum height of horizontal hole	350mm	

#### ▲ 配套空压机方案推荐 / Recommended Air Compressors

柴油移动式螺杆压缩机: 开山 LGCY-12/10  
开山 KSCY-580/13

Diesel engine portable screw air compressor: Kaishan LGCY-12/10  
Kaishan KSCY-580/13

注: 根据孔径大小及空气管路远近选配空压机  
Note: Air compressor selection subject to hole diameter and air hose length

## KG920BIII/KG920BHIII型露天潜孔钻车

### KG920BIII/KG920BHIII Down The Hole Drill Rig For Open Use

KG920BIII/KG920BHIII型露天潜孔钻车是应国家对环保要求而进行升级的一款设备。配备有玉柴动力非道路四缸国三发动机，满足国家对排放和环保的要求。采用柱塞行走马达，提高工作压力，增加其爬坡性能。增大俯仰和举臂油缸，满足其极限位置使用要求。同时对液压系统升级，增大其系统流量，提高回转转速。对提升油缸进行优化，提高其可靠性。导轨采用倾斜安装，方便操作和观察。罩壳采用加厚型材，增加起吊吊环，方便装卸吊装。

The KG920BIII/KG920BHIII down the hole drill rig for open use is an improved device in compliance with national regulations on environmental protection. Equipped with the Yuchai engine (China III), the drill rig meets national standards for emissions and environment. The trammung motor of plunger piston and four-wheel drive improve the working pressure and climbing capacity. The expanded pitch and lifting-arm hydraulic cylinder enable it to meet the requirements of limiting position use. Meanwhile, the hydraulic system is improved, thereby proving increased system flow and rotary speed. The hydraulic cylinder has been optimized, thus making it more reliable. The guide rail is installed in an inclined way, making operations and observations easier. The thickened profile is used for the housing; and the additional ring makes handling and lifting convenient.

KG920BHIII型露天潜孔钻车增加集尘器，工作时更环保、可靠。

The KG920BHIII down the hole drill rig for open use is equipped with a dust collector, thus making operation more environment-friendly and reliable.



#### 技术参数 / Technical Parameters

钻车型号 / Model of drill rig	KG920BIII	KG920BHIII
整机重量 / Weight of complete machine	4200KG	4400KG
外形尺寸 / Outer dimensions	5600 × 2400 × 2300mm	5600 × 2600 × 2300mm
凿岩硬度 / Drilling hardness	f=6-20	
钻孔孔径 / Drilling diameter	Φ90-115mm	
经济钻深 / Depth of economical drilling	25m	
回转转速 / Rotary speed	0-110rpm	
最大回转扭矩 / Rotary torque (Max)	1650N · m (Max)	
提升力 / Lifting force	18KN	
推进方式 / Method of Feed	油缸+板式链 / Oil cylinder+eaf chain	
推进行程 / Feed stroke	3780mm	
行走速度 / Travelling speed	0-2.5km/h	
爬坡能力 / Climbing capacity	≤30°	
离地间隙 / Ground clearance	350mm	
滑架俯仰角度 / Tilt angle of Beam	俯135° 仰50° 共185° / Down: 135°, up: 50°, total: 185°	
滑架摆动角度 / Swing angle of boom	左100° 右45° 共145° / Left: 100°, right: 45°, total: 145°	
钻臂俯仰角度 / Pitch angle of drill boom	俯50° 仰25° 共75° / Down: 50°, up: 25°, total: 75°	
钻臂摆动角度 / Swing angle of drill boom	左44° 右45° 共89° / Left: 44°, right: 45°, total: 89°	
滑架补偿长度 / Compensation length of beam	900mm	
配套动力 / Supporting power	玉柴动力YCD4R23T8-80 (59KW/2400r/min) / Yuchai YCD4R23T8-80 (59KW/2400r/min)	
冲击器 / DTH hammer	M30	
钻杆 / Drilling rod	Φ64 × 3m	
耗风量 / Air consumption	9-17m³/min	
最高水平孔高度 / Maximum height of horizontal hole	2750mm	
最低水平孔高度 / Minimum height of horizontal hole	650mm	

#### ▲ 配套空压机方案推荐 / Recommended Air Compressors

柴油移动式螺杆压缩机: 开山 LGCY-12/10  
 开山 KSCY-580/13

Diesel engine portable screw air compressor: Kaishan LGCY-12/10  
 Kaishan KSCY-580/13

注: 根据孔径大小及空气管路远近选配空压机  
 Note: Air compressor selection subject to hole diameter and air hose length

#### ▲ KG920BHIII型 露天潜孔钻车

KG920BHIII Down The Hole Drill Rig For Open Use



## KT5C型一体式露天潜孔钻车

### KT5C Integrated Down The Hole Drill Rig For Open Use

KT5C型一体式露天潜孔钻车是将潜孔钻凿系统和螺杆空气压缩系统融为一体的钻凿设备，可钻凿垂直、倾斜和水平孔，用于露天矿山和石方工程钻凿爆破孔和预裂孔等。配有玉柴动力非道路国三柴油机及高效集尘系统，满足国家对排放和环保的要求。具有节能高效、安全环保、机动灵活、操作方便、性能稳定等特点。

The KT5C integrated down the hole drill rig for open use is an advanced drilling device integrating the down the hole drilling system and screw air compressor system, It is capable of drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. Equipped with the Yuchai China stage III Engine and efficient dust collection system, the drill rig meets national standards for emissions and environment. It is typical of energy conservation, efficiency, safety, environment-friendliness, flexibility, simple operation and stable performance, etc.



#### 技术参数 / Technical Parameters

凿岩硬度 /Drilling hardness	f=6-20
钻孔直径 /Drilling diameter	80-105 mm
经济凿孔深度 /Depth of economical drilling	25 m
行走速度 /Travelling speed	2.5/4.0 km/h
爬坡能力 /Climbing capacity	30°
离地间隙 /Ground clearance	430 mm
整机功率 /Power of complete machine	162 kW/ 2200r/min
柴油机 /Diesel engine	玉柴YC6J220-T303 /Yuchai YC6J220-T303
螺杆机排气量 /Capacity of screw compressor	12 m <sup>3</sup> /min
螺杆机排气压力 /Discharge pressure of screw compressor	15 bar
外形尺寸（长×宽×高） /Outer dimensions (L×W×H)	7800×2300×2500 mm
重量 /Weight	8000 kg
回转器转速 /Rotation speed of gyator	0-120 r/min
最大回转扭矩 /Rotary torque (Max)	1680 N·m (Max)
最大推拉力 /Maximum push-pull force	25000 N
钻臂举升角度 /Lifting angle of drill boom	向上54° 向下26° /Up 54°, down 26°
滑架俯仰角度 /Tilt angle of beam	125°
滑架摆角 /Swing angle of carriage	向右47° 向左47° /Right 47°, left 47°
滑架侧向水平摆角 /Lateral horizontal swing angle of carriage	向右15° 向左97° /Right 15°, left 97°
钻臂摆角 /Swing angel of drill boom	向右53° 向左15° /Right 53°, left 15°
车架调平角度 /Leveling angle of frame	向上10° 向下9° /Up 10°, down 9°
一次推进长度 /One-time advance length	3000 mm
补偿长度 /Compensation length	900 mm
冲击器 /DTH hammer	M30
钻杆 /Drilling rod	φ 64 × 3000 mm
捕尘方式 /Method of dust collecting	干式（液压驱动旋风层流式） /Dry type (hydraulic cyclonic laminar flow)



## KT7C型一体式露天潜孔钻车

### KT7C Integrated Down The Hole Drill Rig For Open Use

KT7C型一体式露天潜孔钻车是将潜孔钻凿系统和螺杆空气压缩系统融为一体的钻凿设备，可钻凿垂直、倾斜和水平孔，用于露天矿山和石方工程钻凿爆破孔和预裂孔等。配有玉柴动力非道路国三柴油机及高效集尘系统，满足国家对排放和环保的要求。具有节能高效、安全环保、机动灵活、操作方便、性能稳定等特点。

The KT7C integrated down the hole drill rig for open use is an advanced drilling device integrating the down the hole drilling system and screw air compressor system, It is capable of drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. Equipped with the Yuchai China stage III Engine and efficient dust collection system, the drill rig meets national standards for emissions and environment. It is typical of energy conservation, efficiency, safety, environment-friendliness, flexibility, simple operation and stable performance, etc.

#### 技术参数 / Technical Parameters

凿岩硬度 /Drilling hardness	f=6-20
钻孔直径 /Drilling diameter	80-105 mm
经济凿孔深度 /Depth of economical drilling	25 m
行走速度 /Travelling speed	2.5/4.0 km/h
爬坡能力 /Climbing capacity	30°
离地间隙 /Ground clearance	430 mm
整机功率 /Power of complete machine	195 kW / 2200r/min
柴油机 /Diesel engine	玉柴YC6A260-T30 /Yuchai YC6A260-T30
螺杆机排气量 /Capacity of screw compressor	15 m <sup>3</sup> /min
螺杆机排气压力 /Discharge pressure of screw compressor	17 bar
外形尺寸（长×宽×高） /Outer dimensions (L×W×H)	8000×2300×3000 mm
重量 /Weight	9600 kg
回转器转速 /Rotation speed of gyator	0-120 r/min
最大回转扭矩 /Rotary torque (Max)	2450 N·m (Max)
最大推拉力 /Maximum push-pull force	25000 N
钻臂举升角度 /Lifting angle of drill boom	向上28° 向下42° /Up 28°, down 42°
滑架俯仰角度 /Tilt angle of beam	129°
滑架摆角 /Swing angle of carriage	向右38° 向左35° /Right 38°, left 35°
滑架侧向水平摆角 /Lateral horizontal swing angle of carriage	向右42° 向左89° /Right 42°, left 89°
钻臂摆角 /Swing angel of drill boom	向右39° 向左60° /Right 39°, left 60°
车架调平角度 /Leveling angle of frame	向上10° 向下9° /Up 10°, down 9°
一次推进长度 /One-time advance length	3000 mm
补偿长度 /Compensation length	900 mm
冲击器 /DTH hammer	K30
钻杆 /Drilling rod	φ 64 × 3000 mm
捕尘方式 /Method of dust collecting	干式（液压驱动旋风层流式） /Dry type (hydraulic cyclonic laminar flow)



## KT9C型一体式露天潜孔钻车

### KT9C Integrated Down The Hole Drill Rig For Open Use

KT9C型一体式露天潜孔钻车是将潜孔钻凿系统和螺杆空气压缩系统融为一体的钻凿设备，可钻凿垂直、倾斜和水平孔，用于露天矿山和石方工程钻凿爆破孔和预裂孔等。配有康明斯非道路国三柴油机及高效集尘系统，满足国家对排放和环保的要求。具有节能高效、安全环保、机动灵活、操作方便、性能稳定等特点。

The KT9C integrated down the hole drill rig for open use is an advanced drilling device integrating the down the hole drilling system and screw air compressor system, It is capable of drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. Equipped with the Cummins China stage III Engine and efficient dust collection system, the drill rig meets national standards for emissions and environment. It is typical of energy conservation, efficiency, safety, environment-friendliness, flexibility, simple operation and stable performance, etc.



#### 技术参数 / Technical Parameters

凿岩硬度 /Drilling hardness	f=6-20
钻孔直径 /Drilling diameter	Φ 100-125 mm
经济凿孔深度 /Depth of economical drilling	21 m
行走速度 /Travelling speed	2.5/4 km/h
爬坡能力 /Climbing capacity	25°
离地间隙 /Ground clearance	430 mm
整机功率 /Power of complete machine	194 kW/2200r/min 205kW/2200r/min
柴油机 /Diesel engine (choose)	康明斯 QSC8.3-C260-30 /Cummins QSC8.3-C260-30 玉柴 YCA08280-T300/Yuchai YCA08280-T300
螺杆机排气量 /Capacity of screw compressor	17 m <sup>3</sup> /min
螺杆机排气压力 /Discharge pressure of screw compressor	17 bar
外形尺寸 (长×宽×高) /Outer dimensions (L×W×H)	8150×2260×2950/3200 mm
重量 /Weight	12000 kg
回转器转速 /Rotation speed of gyator	0-120 r/min
最大回转扭矩 /Rotary torque (Max)	2800 N·m (Max)
最大推拉力 /Maximum push-pull force	32KN
钻臂举升角度 /Lifting angle of drill boom	向上57° 向下20° /Up 47°, down 20°
滑架俯仰角度 /Tilt angle of beam	114°
滑架摆角 /Swing angle of carriage	向右35° 向左95° /Right 35°, left 95°
钻臂摆角 /Swing angel of drill boom	向右18° 向左50° /Right 18°, left 50°
车架调平角度 /Leveling angle of frame	± 10°
一次推进长度 /One-time advance length	3490 mm
补偿长度 /Compensation length	900 mm
冲击器 /DTH hammer	K40
钻杆 /Drilling rod	φ 76×3000 mm
捕尘方式 /Method of dust collecting	干式 (液压驱动旋风层流式) /Dry type (hydraulic cyclonic laminar flow)



## KT9D型一体式露天潜孔钻车

### KT9D Integrated Down The Hole Drill Rig For Open Use

KT9D型一体式露天潜孔钻车是将潜孔钻凿系统和螺杆空气压缩系统融为一体的钻凿设备，可钻凿垂直、倾斜和水平孔，用于露天矿山和石方工程钻凿爆破孔和预裂孔等。以康明斯或玉柴非道路国三柴油机为单一动力，通过两端输出的方式同时带动螺杆压缩系统和液压传动系统；钻车配有自动接卸杆系统、钻杆浮动滑板模块、钻杆润滑模块、防卡钻系统、液压干式集尘系统、冷暖空调驾驶室等，并可选配钻孔角度和深度指示功能。钻车具有整体性好、自动化程度高、凿岩效果好、环保节能、操作方便、机动灵活、行驶安全等特点。

The KT9D integrated down the hole drill rig for open use is an advanced drilling device integrating the down the hole drilling system and screw air compressor system. It is capable of drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. It is driven by the Cummins or Yuchai China stage III diesel engine and the two-terminal output can drive the screw compression system and hydraulic transmission system. The drill rig is equipped with the automatic rod handling system, drill pipe floating joint module, drill pipe lubrication module, drill pipe sticking prevention system, hydraulic dry dust collection system, air conditioning cab, etc. optional drilling angle and depth indication function. The drill rig is characterized by excellent integrity, high automation, efficient drilling, environment-friendliness, energy conservation, simple operation, flexibility and travelling safety, etc.



#### 技术参数 / Technical Parameters

凿岩硬度 /Drilling hardness	f=6-20
钻孔直径 /Drilling diameter	Φ90-130 mm
经济凿孔深度 /Depth of economical drilling	24 m
容杆数量 /Number of rods	7+1
行走速度 /Travelling speed	2.5/4 km/h
爬坡能力 /Climbing capacity	25°
离地间隙 /Ground clearance	430 mm
整机功率 /Power of complete machine	194kW/2200r/min 205kW/2200r/min
柴油机 /Diesel engine (choose)	康明斯 QSC8.3-C260-30 /Cummins QSC8.3-C260-30 玉柴 YCA08280-T300/Yuchai YCA08280-T300
螺杆机排气量 /Capacity of screw compressor	17 m <sup>3</sup> /min
螺杆机排气压力 /Discharge pressure of screw compressor	17 bar
外形尺寸 (长×宽×高) /Outer dimensions (L×W×H)	7800×3000×3300/3600 mm
重量 /Weight	12500 kg
回转器转速 /Rotation speed of gyrator	0-120 r/min
最大回转扭矩 /Rotary torque (Max)	2800 N·m (Max)
最大推拉力 /Maximum push-pull force	25KN
推进方式 /Method of propulsion	马达+滚子链/Motor+roller chain
钻臂举升角度 /Lifting angle of drill boom	向上47° 向下20° /Up 47°, down 20°
滑架俯仰角度 /Tilt angle of beam	120°
滑架摆角 /Swing angle of carriage	向右35° 向左95° /Right 35°, left 95°
钻臂摆角 /Swing angel of drill boom	向右20° 向左50° /Right 20°, left 50°
车架调平角度 /Leveling angle of frame	± 10°
一次推进长度 /One-time advance length	3490 mm
补偿长度 /Compensation length	900 mm
冲击器 /DTH hammer	K40
钻杆 /Drilling rod	φ 76 × 3000 mm
捕尘方式 /Method of dust collecting	干式 (液压驱动旋风层流式) /Dry type (hydraulic cyclonic laminar flow)



## ZT5型一体式露天潜孔钻车

### ZT5 Integrated Down The Hole Drill Rig For Open Use

ZT5型一体式潜孔钻车可钻凿垂直、倾斜和水平孔，主要用于大型露天矿山和石方工程钻凿爆破孔和预裂孔等。以玉柴动力非道路国三柴油机为单一动力，通过两端输出的方式同时带动螺杆压缩系统和液压传动系统；钻车配有自动接卸杆系统、钻杆浮动接头模块、钻杆润滑模块、防卡钻系统、液压干式集尘系统、冷暖空调驾驶室等，并可选配钻孔角度和深度指示功能。钻车具有整体性好、自动化程度高、凿岩效果好、环保节能、操作方便、机动灵活、行驶安全等特点。

The ZT5 integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. It is driven by the Yuchai China stage III diesel engine and the two-terminal output can drive the screw compression system and hydraulic transmission system. The drill rig is equipped with the automatic rod handling system, drill pipe floating joint module, drill pipe lubrication module, drill pipe sticking prevention system, hydraulic dry dust collection system, air conditioning cab, etc. optional drilling angle and depth indication function. The drill rig is characterized by excellent integrity, high automation, efficient drilling, environment-friendliness, energy conservation, simple operation, flexibility and travelling safety, etc.



#### 技术参数 / Technical Parameters

运输尺寸 (长*高*宽) /Transport dimensions (L × W × H)	8850*2180*2830mm
重量 /Weight	13800Kg
岩石硬度 /Rock hardness	f=6-20
钻孔直径 /Drilling diameter	90-105mm
离地间隙 /Ground clearance	430mm
履带调平角度 /Leveling angle of track	± 10°
行驶速度 /Travelling speed	0-3Km/h
爬坡能力 /Climbing capacity	25°
牵引力 /Traction	120KN
最大回转扭矩 /Rotary torque (Max)	1680N · m (Max)
转速 /Rotation speed	0-120rpm
钻臂举升 /Lifting angle of drill boom	向上47° 向下20° /Up 47° , down 20°
钻臂摆角 /Swing angle of drill boom	向左20° 向右50° /Left 20° , right 50°
滑架摆角 /Swing angle of carriage	向左35° 向右95° /Left 35° , right 95°
滑架俯仰角 /Tilt angle of beam	120°
补偿行程 /Compensation stroke	1200mm
推进器行程 /Rotation Head stroke	3490mm
最大推进力 /Maximum propelling force	25KN
推进方式 /Method of propulsion	马达 + 滚子链 /Motor + roller chain
经济钻孔深度 /Depth of economical drilling	24m
容杆数量 /Number of rods	7+1
钻杆规格 /Specifications of drilling rod	Φ64x3000mm
冲击器 /DTH hammer	M30
发动机 /Engine	玉柴YCA07240-T300/ Yuchai YCA07240-T300
额定功率 /Rated power	176KW
额定转速 /Rated revolving speed	2200r/min
螺杆式空压机 /Screw air compressor	浙江开山 /Zhejiang Kaishan
排气量 /Capacity	12m³/min
排气压力 /Discharge pressure	15bar
行驶控制系统 /Traveling control system	液压先导 /Hydraulic pilot
钻孔控制系统 /Drilling control system	液压先导 /Hydraulic pilot
防卡 /Anti-Jamming	自动电液防卡 /Automatic electro-hydraulic anti-jamming
电压 /Voltage	24V 直流 /24V DC
安全驾驶室 /Safe cab	符合防落石&防翻滚标准 /Meet the requirements of ROPS & FOPS
室内噪声水平 /Indoor noise	低于85dB (A) /Below 85dB (A)
座椅 /Seat	可调 /Adjustable
空调 /Air-conditioning	标准冷暖 /Standard temperature
娱乐 /Entertainment	收音机 /Radio

## ZT10型一体式露天潜孔钻车

### ZT10 Integrated Down The Hole Drill Rig For Open Use

ZT10型一体式潜孔钻车可钻凿垂直、倾斜和水平孔，主要用于大型露天矿山和石方工程钻凿爆破孔和预裂孔等。以玉柴动力非道路国三柴油为单一动力，通过两端输出的方式同时带动螺杆压缩系统和液压传动系统；钻车配有自动接卸杆系统、钻杆浮动滑板模块、钻杆润滑模块、防卡钻系统、液压干式集尘系统、冷暖空调驾驶室等，并可选配钻孔角度和深度指示功能。钻车具有整体性好、自动化程度高、凿岩效果好、节能环保、操作方便、机动灵活、行驶安全等特点。

The ZT10 integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. It is driven by the Yuchai China stage III diesel engine and the two-terminal output can drive the screw compression system and hydraulic transmission system. The drill rig is equipped with the automatic rod handling system, drill pipe floating joint module, drill pipe lubrication module, drill pipe sticking prevention system, hydraulic dry dust collection system, air conditioning cab, etc. optional drilling angle and depth indication function. The drill rig is characterized by excellent integrity, high automation, efficient drilling, environment-friendliness, energy conservation, simple operation, flexibility and travelling safety, etc.



#### 技术参数 / Technical Parameters

运输尺寸 (长*高*宽) /Transport dimensions (L×W×H)	9230*2360*3260mm
重量 /Weight	15000Kg
岩石硬度 /Rock hardness	f=6-20
钻孔直径 /Drilling diameter	105-130mm
离地间隙 /Ground clearance	430mm
履带调平角度 /Leveling angle of track	±10°
行驶速度 /Travelling speed	0-3Km/h
爬坡能力 /Climbing capacity	25°
牵引力 /Traction	120KN
最大回转矩 /Rotary torque (Max)	2800N·m (Max)
转速 /Rotation speed	0-120rpm
钻臂举升 /Lifting angle of drill boom	向上47° 向下20° /Up 47° , down 20°
钻臂摆角 /Swing angle of drill boom	向左20° 向右50° /Left 20° , right 50°
滑架摆角 /Swing angle of carriage	向左35° 向右95° /Left 35° , right 95°
滑架俯仰角 /Tilt angle of beam	114°
补偿行程 /Compensation stroke	1353mm
推进器行程 /Rotation Head stroke	4490mm
最大推进力 /Maximum propelling force	25KN
推进方式 /Method of propulsion	马达+滚子链 /Motor + roller chain
经济钻孔深度 /Depth of economical drilling	32m
容杆数量 /Number of rods	7+1
钻杆规格 /Specifications of drilling rod	Φ76x4000mm
冲击器 /DTH hammer	K40
发动机 /Engine	玉柴YC6L310-H300 /Yuchai YC6L310-H300
额定功率 /Rated power	228KW
额定转速 /Rated revolving speed	2200r/min
螺杆式空压机 /Screw air compressor	浙江开山 /Zhejiang Kaishan
排气量 /Capacity	18m³/min
排气压力 /Discharge pressure	17bar
行驶控制系统 /Traveling control system	液压先导 /Hydraulic pilot
钻孔控制系统 /Drilling control system	液压先导 /Hydraulic pilot
防卡 /Anti-Jamming	自动电液防卡 /Automatic electro-hydraulic anti-jamming
电压 /Voltage	24V 直流 /24V DC
安全驾驶室 /Safe cab	符合防落石&防翻滚标准 /Meet the requirements of ROPS & FOPS
室内噪声水平 /Indoor noise	低于85dB (A) /Below 85dB (A)
座椅 /Seat	可调 /Adjustable
空调 /Air-conditioning	标准冷暖 /Standard temperature
娱乐 /Entertainment	收音机 /Radio

## KT11型一体式露天潜孔钻车

### KT11 Integrated Down The Hole Drill Rig For Open Use

KT11型一体式潜孔钻车可钻凿垂直、倾斜和水平孔，主要用于大型露天矿山和石方工程钻凿爆破孔和预裂孔等。以康明斯非道路国三柴油发动机为单一动力，通过两端输出的方式同时带动螺杆压缩系统和液压传动系统；钻车配有自动接卸杆系统、钻杆浮动接头模块、钻杆润滑模块、防卡钻系统、液压干式集尘系统、冷暖空调驾驶室等，并可选配钻孔角度和深度指示功能。钻车具有整体性好、自动化程度高、凿岩效果好、环保节能、操作方便、机动灵活、行驶安全等特点。

The KT11 integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. It is driven by the Cummins China stage III diesel engine and the two-terminal output can drive the screw compression system and hydraulic transmission system. The drill rig is equipped with the automatic rod handling system, drill pipe floating joint module, drill pipe lubrication module, drill pipe sticking prevention system, hydraulic dry dust collection system, air conditioning cab, etc. optional drilling angle and depth indication function. The drill rig is characterized by excellent integrity, high automation, efficient drilling, environment-friendliness, energy conservation, simple operation, flexibility and travelling safety, etc.



#### 技术参数 / Technical Parameters

运输尺寸 (长*高*宽) /Transport dimensions (L×W×H)	9100*2520*3600 mm
重量 /Weight	15500Kg
岩石硬度 /Rock hardness	f=6-20
钻孔直径 /Drilling diameter	100-140mm
离地间隙 /Ground clearance	420mm
履带调平角度 /Leveling angle of track	10° up, 10° down
行驶速度 /Travelling speed	0-4Km/h
爬坡能力 /Climbing capacity	25°
牵引力 /Traction	120KN
最大回转矩 /Rotary torque (Max)	2800N·m (Max)
转速 /Rotation speed	0-120rpm
钻臂举升 /Lifting angle of drill boom	向上47°，向下20° /Up 47°，down 20°
钻臂摆角 /Swing angle of drill boom	向右50°，向左21° /Right 50°，left 21°
滑架摆角 /Swing angle of carriage	向右95°，向左35° /Right 95°，left 35°
滑架俯仰角 /Tilt angle of beam	114°
补偿行程 /Compensation stroke	1353mm
推进机行程 /Feed stroke	4490mm
最大推进力 /Maximum propelling force	25KN
推进方式 /Method of propulsion	滚子链 /Roller chain
经济钻孔深度 /Depth of economical drilling	32m
容杆数量 /Number of rods	7+1
钻杆规格 /Specifications of drilling rod	Φ76x4000 mm
冲击器 /DTH hammer	K40
发动机 /Engine	康明斯QSL8.9-C325-30 /Cummins QSL8.9-C325-30
输出功率 /Output power	242KW/2200rpm
螺杆式空压机 /Screw air compressor	浙江开山/Zhejiang Kaishan
风量 /Air capacity	18m³/min
风压 /Air pressure	20Bar
行驶控制系统 /Traveling control system	液压先导 /Hydraulic pilot
钻孔控制系统 /Drilling control system	液压先导 /Hydraulic pilot
防卡 /Anti-Jamming	自动电液防卡 /Automatic electro-hydraulic anti-jamming
电压 /Voltage	24V，直流 /24V，DC
安全驾驶室 /Safe cab	符合防落石&防滚翻标准 /Meet the requirements of FOPS & ROPS
室内噪声水平 /Indoor noise	低于85dB (A) /Below 85dB (A)
座椅 /Seat	可调 /Adjustable
空调 /Air-conditioning	标准冷暖 /Standard temperature
娱乐 /Entertainment	收音机+Mp3 /Radio +Mp3

## KT12型一体式露天潜孔钻车

### KT12 Integrated Down The Hole Drill Rig For Open Use

KT12型一体式潜孔钻车可钻凿垂直、倾斜和水平孔，主要用于大型露天矿山和石方工程钻凿爆破孔和预裂孔等。以康明斯非道路国三柴油机为单一动力，通过两端输出的方式同时带动螺杆压缩系统和液压传动系统；钻车配有自动接卸杆系统、钻杆浮动接头模块、钻杆润滑模块，防卡钻系统、液干式集尘系统、冷暖空调驾驶室等，并可选配钻孔角度和深度指示功能。钻车具有整体性好、自动化程度高、凿岩效果好、环保节能、操作方便、机动灵活、行驶安全等特点。

The KT12 integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. It is driven by the Cummins China stage III diesel engine and the two-terminal output can drive the screw compression system and hydraulic transmission system. The drill rig is equipped with the automatic rod handling system, drill pipe floating joint module, drill pipe lubrication module, drill pipe sticking prevention system, hydraulic dry dust collection system, air conditioning cab, etc. optional drilling angle and depth indication function. The drill rig is characterized by excellent integrity, high automation, efficient drilling, environment-friendliness, energy conservation, simple operation, flexibility and travelling safety, etc.



#### 技术参数 / Technical Parameters

运输尺寸 (长*高*宽) /Transport dimensions (L×W×H)	9830*2580*3320 mm
重量 /Weight	17500Kg
岩石硬度 /Rock hardness	f=6-20
钻孔直径 /Drilling diameter	115-152mm
离地间隙 /Ground clearance	420mm
履带调平角度 /Leveling angle of track	10° up, 10° down
行驶速度 /Travelling speed	0-3Km/h
爬坡能力 /Climbing capacity	25°
牵引力 /Traction	120KN
最大回转扭矩 /Rotary torque (Max)	3450N·m (Max)
转速 /Rotation speed	0-100rpm
钻臂举升 /Lifting angle of drill boom	向上47°，向下20° /Up 47°，down 20°
钻臂摆角 /Swing angle of drill boom	向右50°，向左21° /Right 50°，left 21°
滑架摆角 /Swing angle of carriage	向右95°，向左35° /Right 95°，left 35°
滑架俯仰角 /Tilt angle of beam	114°
补偿行程 /Compensation stroke	1353mm
推进机行程 /Feed stroke	4490mm
最大推进力 /Maximum propelling force	25KN
推进方式 /Method of propulsion	滚子链 /Roller chain
经济钻孔深度 /Depth of economical drilling	28m
容杆数量 /Number of rods	6+1
钻杆规格 /Specifications of drilling rod	Φ89x4000 mm
冲击器 /DTH hammer	K40、K50
发动机 /Engine	康明斯QSL8.9-C360-30 /Cummins QSL8.9-C360-30
气缸数 /Number of cylinders	6
输出功率 /Output power	265KW/2200rpm
液压泵 /Hydraulic pump	5×齿轮泵 /5× gear pump
螺杆式空压机 /Screw air compressor	浙江开山 /Zhejiang Kaishan
风量 /Air capacity	20m³/min
风压 /Air pressure	22Bar
行驶控制系统 /Traveling control system	液压先导 /Hydraulic pilot
钻孔控制系统 /Drilling control system	液压先导 /Hydraulic pilot
防卡 /Anti-Jamming	自动电液防卡 /Automatic electro-hydraulic anti-Jamming
电压 /Voltage	24V，直流 /24V, DC
安全驾驶室 /Safe cab	符合防落石&防滚翻标准 /Meet the requirements of FOPS & ROPS
室内噪声水平 /Indoor noise	低于85dB (A) /Below 85dB (A)
座椅 /Seat	可调 /Adjustable
空调 /Air-conditioning	标准冷暖 /Standard temperature
娱乐 /Entertainment	收音机+Mp3 /Radio +Mp3



## KT15型一体式露天潜孔钻车

### KT15 Integrated Down The Hole Drill Rig For Open Use

KT15型一体式潜孔钻车可钻凿垂直、倾斜和水平孔，主要用于大型露天矿山和石方工程钻凿爆破孔和预裂孔等。以康明斯非道路国三柴油机为单一动力，通过两端输出的方式同时带动螺杆压缩系统和液压传动系统；钻车配有自动接卸杆系统、钻杆浮动接头模块、钻杆润滑模块，防卡钻系统、液压干式集尘系统、冷暖空调驾驶室、钻孔角度和深度指示功能等。钻车具有整体性好、自动化程度高、凿岩效果好、环保节能、操作方便、机动灵活、行驶安全等特点。

The KT15 integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. It is driven by the Cummins China stage III diesel engine and the two-terminal output can drive the screw compression system and hydraulic transmission system. The drill rig is equipped with the automatic rod handling system, drill pipe floating joint module, drill pipe lubrication module, drill pipe sticking prevention system, hydraulic dry dust collection system, air conditioning cab, optional drilling angle and depth indication function, etc. The drill rig is characterized by excellent integrity, high automation, efficient drilling, environment-friendliness, energy conservation, simple operation, flexibility and travelling safety, etc.



#### 技术参数 / Technical Parameters

凿岩硬度 /Drilling hardness	f=6-20
钻孔直径 /Drilling diameter	135-190 mm
经济凿孔深度（自动接杆深度） Depth of economical drilling (depth of automatic extension rod)	35 m
行走速度 /Travelling speed	3.0 km/h
爬坡能力° /Climbing capacity	25°
离地间隙 /Ground clearance	430 mm
整机功率 /Power of complete machine	298 kW
柴油机 /Diesel engine	康明斯QSZ13-C400 /Cummins QSZ13-C400
螺杆机排气量 /Displacement of screw compressor	22 m³/min
螺杆机排气压力 /Discharge pressure of screw compressor	24bar
外形尺寸（长×宽×高） /Outer dimensions (L×W×H)	11500 × 2716 × 3540 mm
重量 /Weight	23000 kg
回转器转速 /Revolving speed of gyrorator	0-118 r/min
回转扭矩 /Rotary torque	4100 N·m
最大推拉力 /Maximum Feed force	65000 N
滑架俯仰角度 /Tilt angle of beam	125°
滑架摆角 /Swing angle of carriage	向右97° 向左33° /Right 97° , left 33°
钻臂摆角 /Swing angle of drill boom	向右42° 向左15° /Right 42° , left 15°
车架调平角度 /Leveling angle of frame	向上10° 向下10° /Up 10° , down 10°
补偿长度 /Compensation length	1800 mm
冲击器 /DTH hammer	K5、K6
钻杆（φ直径×钻杆长度） /Drilling rod (φ × length of drilling rod)	φ 89 × 5000/ φ 102 × 5000 mm
除尘方式 /Method of dust removal	干式（液压驱动旋风层流式）/湿式(可选) Dry (hydraulic cyclonic laminar flow)/wet (optional)
接杆方式 /Method of extension rod	自动接卸杆 /Automatic unloading rod
自动防卡方式 /Method of automatic anti-jamming	电液控制防卡 /Electro-hydraulic control anti-sticking
钻杆润滑方式 /Method of drilling rod lubrication	自动喷油润滑 /Automatic oil injection and lubrication
钻杆螺纹保护 /Protection of thread of drilling rod	配有浮动接头保护钻杆螺纹 Equipped with the floating joint to protect the thread of drilling rod
钻进显示 /Drilling display	钻孔角度和钻孔深度实时显示 Real-time display of drilling angle and depth



## KT20型一体式露天潜孔钻车

### KT20 Integrated Down The Hole Drill Rig For Open Use

KT20型一体式潜孔钻车可钻凿垂直、倾斜和水平孔，主要用于大型露天矿山和石方工程钻凿爆破孔和预裂孔等。以卡特彼勒柴油机为单一动力，通过两端输出的方式同时带动螺杆压缩系统和液压传动系统；钻车配有自动接卸杆系统、钻杆浮动接头模块、钻杆润滑模块，防卡钻系统、液压干式集尘系统、冷暖空调驾驶室、钻孔角度和深度指示功能等。钻车具有整体性好、自动化程度高、凿岩效果好、节能环保、操作方便、机动灵活、行驶安全等特点。

The KT20 integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. It is driven by the Caterpillar diesel engine and the two-terminal output can drive the screw compression system and hydraulic transmission system. The drill rig is equipped with the automatic rod handling system, drill pipe floating joint module, drill pipe lubrication module, drill pipe sticking prevention system, hydraulic dry dust collection system, air conditioning cab, etc. optional drilling angle and depth indication function. The drill rig is characterized by excellent integrity, high automation, efficient drilling, environment-friendliness, energy conservation, simple operation, flexibility and travelling safety, etc.



#### 技术参数 / Technical Parameters

凿岩硬度 /Drilling hardness	f=6-20
钻孔直径 /Drilling diameter	135-190 mm
经济凿孔深度（自动接杆深度） Depth of economical drilling (depth of automatic extension rod)	35 m
行走速度 /Travelling speed	3.0 Km/h
爬坡能力° /Climbing capacity	25°
离地间隙 /Ground clearance	430 mm
整机功率 /Power of complete machine	287 Kw
柴油机 /Diesel engine	卡特彼勒C11 /Caterpillar C11
螺杆机排气量 /Displacement of screw compressor	22 m³/min
螺杆机排气压力 /Discharge pressure of screw compressor	24 bar
外形尺寸（长×宽×高） /Outer dimensions (L×W×H)	11110×2716×3600 mm
重量 /Weight	23000 Kg
回转器转速 /Revolving speed of gyrorator	0-118 r/min
回转扭矩 /Rotary torque	4100 N·m
最大推拉力 /Maximum Feed force	65 KN
滑架俯仰角度 /Tilt angle of beam	125°
滑架摆角 /Swing angle of carriage	向右97° 向左33° /Right 97° , left 33°
钻臂摆角 /Swing angle of drill boom	向右42° 向左15° /Right 42° , left 15°
车架调平角度 /Leveling angle of frame	向上10° 向下10° /Up 10° , down 10°
补偿长度 /Compensation length	1800 mm
冲击器 /DTH hammer	K5、K6
钻杆（φ直径×钻杆长度） /Drilling rod (φ×length of drilling rod)	φ89×5000/φ102×5000 mm
除尘方式 /Method of dust removal	干式（液压驱动旋流层流式）/湿式(可选) Dry (hydraulic cyclonic laminar flow)/wet (optional)
接杆方式 /Method of extension rod	自动接卸杆 /Automatic unloading rod
自动防卡方式 /Method of automatic anti-jamming	电液控制防卡 /Electro-hydraulic control anti-sticking
钻杆润滑方式 /Method of drilling rod lubrication	自动喷油润滑 /Automatic oil injection and lubrication
钻杆螺纹保护 /Protection of thread of drilling rod	配有浮动接头保护钻杆螺纹 Equipped with the floating joint to protect the thread of drilling rod
钻进显示 /Drilling display	钻孔角度和钻孔深度实时显示 Real-time display of drilling angle and depth



## KT25型一体式露天潜孔钻车

### KT25 Integrated Down The Hole Drill Rig For Open Use

KT25型一体式潜孔钻车可钻凿垂直、倾斜和水平孔，主要用于大型露天矿山和石方工程钻凿爆破孔和预裂孔等。以卡特彼勒柴油机为单一动力，通过两端输出的方式同时带动螺杆压缩系统和液压传动系统；钻车配有自动接卸杆系统、钻杆浮动接头模块、钻杆润滑模块，防卡钻系统、液压干式集尘系统、冷暖空调驾驶室、钻孔角度和深度指示功能等。钻车具有整体性好、自动化程度高、凿岩效果好、节能环保、操作方便、机动灵活、行驶安全等特点。

The KT25 integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. It is driven by the Caterpillar diesel engine and the two-terminal output can drive the screw compression system and hydraulic transmission system. The drill rig is equipped with the automatic rod handling system, drill pipe floating joint module, drill pipe lubrication module, drill pipe sticking prevention system, hydraulic dry dust collection system, air conditioning cab, etc. optional drilling angle and depth indication function. The drill rig is characterized by excellent integrity, high automation, efficient drilling, environment-friendliness, energy conservation, simple operation, flexibility and travelling safety, etc.



#### 技术参数 / Technical Parameters

凿岩硬度 /Drilling hardness	f=6-20
钻孔直径 /Drilling diameter	152-203 mm
经济凿孔深度（自动接杆深度） Depth of economical drilling (depth of automatic extension rod)	35 m
行走速度 /Travelling speed	3.0 Km/h
爬坡能力° /Climbing capacity	25°
离地间隙 /Ground clearance	430 mm
整机功率 /Power of complete machine	328 Kw
柴油机 /Diesel engine	卡特彼勒C13 /Caterpillar C13
螺杆机排气量 /Displacement of screw compressor	26 m³/min
螺杆机排气压力 /Discharge pressure of screw compressor	25 bar
外形尺寸（长×宽×高） /Outer dimensions (L×W×H)	12200×2840×3620 mm
重量 /Weight	25800 Kg
回转器转速 /Revolving speed of gyrotor	0-118 r/min
回转扭矩 /Rotary torque	6100 N·m
最大推拉力 /Maximum Feed force	65 KN
滑架俯仰角度 /Tilt angle of beam	125°
滑架摆角 /Swing angle of carriage	向右37° 向左37° /Right 37° , left 37°
钻臂摆角 /Swing angle of drill boom	向右42° 向左15° /Right 42° , left 15°
车架调平角度 /Leveling angle of frame	向上10° 向下10° /Up 10° , down 10°
补偿长度 /Compensation length	1800 mm
冲击器 /DTH hammer	K5、K6
钻杆（φ直径×钻杆长度） /Drilling rod (φ×length of drilling rod)	φ 102×5000 mm / φ 127×5000
除尘方式 /Method of dust removal	干式（液压驱动旋流层流式）/湿式(可选) Dry (hydraulic cyclonic laminar flow)/wet (optional)
接杆方式 /Method of extension rod	自动接卸杆 /Automatic unloading rod
自动防卡方式 /Method of automatic anti-jamming	电液控制防卡 /Electro-hydraulic control anti-sticking
钻杆润滑方式 /Method of drilling rod lubrication	自动喷油润滑 /Automatic oil injection and lubrication
钻杆螺纹保护 /Protection of thread of drilling rod	配有浮动接头保护钻杆螺纹 Equipped with the floating joint to protect the thread of drilling rod
钻进显示 /Drilling display	钻孔角度和钻孔深度实时显示 Real-time display of drilling angle and depth



## KT20S型一体式双动力露天潜孔钻车

### KT20S Integrated Dual-power Down The Hole Drill Rig For Open Use

KT20S型一体式潜孔钻车可钻凿垂直、倾斜和水平孔，主要用于大型露天矿山和石方工程钻凿爆破孔和预裂孔等。配有康明斯非道路国三柴油机用于钻车移动，电机用于钻孔作业。钻车配有自动接卸杆系统、钻杆浮动接头模块、钻杆润滑模块，防卡钻系统、液压干式集尘系统、冷暖空调驾驶室、钻孔角度和深度指示功能等。钻车具有整体性好、自动化程度高、凿岩效果好、环保节能、操作方便、机动灵活、行驶安全等特点。

The KT20S integrated dual-power down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre-splitting holes. Equipped with Cummins China stage III diesel engine for drilling vehicle movement and motor for drilling operation. The drill rig is equipped with the automatic rod handling system, drill pipe floating joint module, drill pipe lubrication module, drill pipe sticking prevention system, hydraulic dry dust collection system, air conditioning cab, etc. optional drilling angle and depth indication function. The drill rig is characterized by excellent integrity, high automation, efficient drilling, environment-friendliness, energy conservation, simple operation, flexibility and travelling safety, etc.



#### 技术参数 / Technical Parameters

凿岩硬度 /Drilling hardness	f=6-20
钻孔直径 /Drilling diameter	135-254 mm
经济凿孔深度（自动接杆深度） Depth of economical drilling (depth of automatic extension rod)	35 m
钻杆(φ直径×钻杆长度)/Drilling rod (φ×length of drilling rod)	φ 102/φ 114/φ 127/φ 146×5000 mm
冲击器 /DTH Hammer	K5、K6、K8
除尘方式 /Method of dust removal	干式（液压驱动旋风层流式）/湿式(可选) Dry (hydraulic cyclonic laminar flow)/wet (optional)
接杆方式 /Method of extension rod	自动接卸杆 /Automatic unloading rod
钻杆螺纹保护 /Protection of thread of drilling rod	配有浮动装置保护钻杆螺纹 /Equipped with floating device to protect the thread of drilling rod
螺杆机电机功率 /Motor power of screw compressor	200/250/315 kW
螺杆机最大排气量 /Maximum displacement of screw compressor	20/26/31 m <sup>3</sup> /min
螺杆机最大排气压力 /Maximum discharge pressure of screw compressor	25 bar
柴油机型号 /Model of diesel engine	QSB3.9-C125-30
柴油机功率/转速 /Power of diesel engine/revolving speed	93 kW /2200/r/min
电机型号 /Model of motor	Y2-280-4
电机功率/转速 /Power of motor/revolving speed	75 kW /1470/r/min
行走速度 /Travelling speed	0-2.2 Km/h
最大牵引力 /Maximum tractor	175 kN
爬坡能力° /Climbing capacity	25°
离地间隙 /Ground clearance	480 mm
钻臂举升角度 /Lifting angle of drill boom	42°
滑架俯仰角度 /Tilt angle of Beam	123°
滑架摆角 /Swing angle of boom	向左37° 向右37° /Left 37° , right 37°
钻臂摆角 /Swing angle of drill boom	向左15° 向右42° /Left 15° , right 42°
最大推拉力 /Maximum push-pull force	65 kN
一次推进长度 /One-time advance length	5000 mm
补偿长度 /Compensation length	1200 mm
回转器转速 /Revolving speed of gyrator	0-70 r/min
回转扭矩 /Rotary torque	6100 N·m
重量 /Weight	32000 Kg
工作状态（长×宽×高） /Working condition (L×W×H)	10500×4400×9300 mm
运输状态（长×宽×高） /Transport condition (L×W×H)	11000×3300×3400 mm



## KL510型全液压露天钻车 / KL510 Hydraulic Drilling Rig

KL510型全液压露天钻车，配备标准45/38毫米直径钎杆，可钻凿64-115毫米的垂直、倾斜及水平炮孔。广泛应用于路堑开挖，管道敷设和基础工程以及露天矿山的钻孔作业。

KL510 hydraulic drilling rig for open use is fitted with the standard drill rod whose diameter reaches 45/38 millimeters, which is capable of drilling vertical, inclined and horizontal blast holes in the range of 64-115 millimeters. It has a wide range of applications in cutting excavation, pipelining, foundation and open-pit mine drilling.

- KL510配备欧洲液压顶锤式凿岩机（24kW）。凭借其强大的回转扭矩、冲击功率，匹配足够的洗孔能力和先进的控制系统，使得其完全有能力在复杂岩层的工况下发挥其性能。
- KL510 drilling rig is equipped with a hydraulic top hammer rock drill(24kW) from Europe. With powerful rotary torque, impact power, adequate hole flushing ability and advanced control system, make it perfectly capable drilling in complex rock conditions.
- 钻车采用高效的开山牌螺杆空气压缩机，环保节能，具备完全自主知识产权。
- The drilling rig is fitted with the efficient Kaishan screw air compressor. Characterized by energy conservation and environmental protection, our company owns the complete proprietary intellectual property.

### 技术参数 / Technical Parameters

外形尺寸与重量 / Dimensions and weight		液压凿岩机 / Hydraulic rock drill		钻臂、推进梁及换杆器 Drill boom, advancing beam and rod changer	
运输尺寸(长*宽*高) Transport dimensions (length*width*height)	10500*2450*3200mm	型号 / Model	HC95LQ a	钻臂举升 / Lifting of drill boom	94°
重量 / Weight	16500kg	冲击功率 / Impact power	24kW	钻臂摆动 / Swing of drill boom	-18° / 50°
<b>铰接钻臂及底盘 / Articulated drill boom and chassis</b>		冲击压力 / Impact pressure	180-200bar	折叠臂举升 / Lifting of folding boom	120°
离地间隙 / Ground clearance	430mm	冲击频率 / Impact frequency	48-57Hz	滑架摆角 / Swing angle of Beam	-93° / 20°; -20° / 94°
履带调平角度 Frequency modulation angle of track	10° up, 10° down	最大扭矩 / Impact frequency	955Nm	滑架倾斜 / Carriage inclination	120°
行驶速度 / Tramping speed	0-3.5km/h	最大回转压力 Maximum rotary pressure	210bar	补偿行程 / Compensation stroke	1353mm
爬坡能力 / Climbing capacity	30°	最大回转速度 Maximum rotary speed	150rpm	凿岩机行程 / Stroke of rock drill	4150mm
牵引力 / Traction	120kN	钎尾润滑 Shank lubrication	空气 / 油雾 Air / oil mist	最大推进力 Maximum propelling force	19kN
<b>动力单元 / Power unit</b>		润滑耗油量 Fuel consumption of lubrication	15滴 / min 15drops/min	推进方式 / Feed Method	马达-滚子链 Motor-roller chain
发动机 / Engine	cummins QSC8.3-C240-30	钻孔直径 Drilling diameter	64-115mm	经济钻孔深度 Depth of economical drilling	25m
气缸数 / Number of cylinders	6	<b>控制系统 / Control system</b>		容杆数量 / Number of rods	6+1
输出功率 / Output power	179 kW / 2200 rpm	行驶 / Travelling	液压先导 / Hydraulic pilot	钻杆型号 Specification of drill rod	T45 / T38 × 3660
传动形式 / Drive type	前后输出 / Front-rear output	钻臂 / Drill boom	液压直控 Hydraulic direct control	钻杆螺纹润滑 Thread lubrication of drill rod	气动润滑泵 Pneumatic lubricating pump
液压泵 / Hydraulic pump	2 × 变量柱塞泵 + 2 × 齿轮泵 2 × variable displacement piston pump + 2 × gear pump	凿岩 / Rock drilling	先导控制 (电/液) Pilot control (electric/hydraulic)	<b>液压系统 / Hydraulic system</b>	
螺杆式空压机 Screw air compressor	浙江开山 / Zhejiang Kaishan	开孔控制 Opening control	无级 / Stepless	行驶、凿岩 Travelling, drilling	负载传感式 Load sensing
风量 Capacity of air compressor	8.5m³/min	冲击控制 Impact control	冲击压力控制 Control of shock pressure	过滤精度 / Filter fineness	10 μ m
风压 / Air pressure	10bar	防卡 / Anti-jamming	电/液 / Electric/hydraulic	冷却能力 / Cooling capacity	+50° 环境温度 Ambient temperature: +50°
燃油箱 / Fuel tank	340L	<b>集尘系统 / Dust-collecting system</b>		液压油箱 / Hydraulic oil tank	250L
集尘器能力及真空度 Capacity of dust collector and vacuum degree	20m³/min; 1000mm水柱 20m³/min; 1000mm water column	<b>驾驶室 / Cab</b>			
滤芯 / 材料 Filter element / material	8个 / 纤维 8 / fiber	安全驾驶室 Safety cab	符合防落石 & 防滚翻标准 Meet the requirements of FOPS and ROPS	座椅 / Seat	可调 / Adjustable
过滤面积 / Filtering area	7m²	室内噪声水平 Indoor noise level	低于85dB(A) Below 85dB(A)	空调 Air-conditioning	标准冷暖 Standard temperature
液压马达功率 Power of hydraulic motor	7.5kW	控制功能 Control function	钻孔、行驶、钻臂动作和换杆器 Drilling, travelling, movement of drill boom and rod changer	娱乐 Entertainment	收音机 + MP3 Radio + MP3



## KL511型全液压露天钻车 / KL511 Hydraulic Drilling Rig

KL511型全液压露天钻车配备标准45/51毫米直径钎杆，可钻凿76-127mm的垂直、倾斜及水平炮孔。应用于路堑开挖，管道敷设和基础工程及露天矿山的钻孔作业。

KL511 hydraulic drilling rig for open use is fitted with the standard drill rod whose diameter reaches 45/51mm, which is capable of drilling vertical, inclined and horizontal blast holes in the range of 76 - 127mm. It has a wide range of applications in cutting excavation, pipelining, foundation and open-pit mine drilling.

- KL511配备重型液压顶锤式凿岩机（23.4KW）。凭借其强大的回转扭矩、冲击功率，匹配足够的洗孔能力和先进的控制系统，使其完全有能力在复杂岩层的工况条件下发挥其性能。
- The KL511 drilling rig is equipped with a heavy-duty hydraulic top hammer rock drill (23.4KW). With powerful rotary torque, shock power, adequate hole flushing and advanced control system, make it perfectly capable drilling in complex rock conditions.
- 钻车车架具备0-180°的回转能力，使得钻车一次定位凿岩覆盖范围达26.5平方米，极大的提高了钻车排布孔效率及应对复杂工况能力。
- The frame of the drill rig is capable of rotating in the range of 0 - 180°. In this way, the drill rig can cover 26.5 square meters with one single positioning, which can considerably improve the efficiency of hole arrangement and its response to complex conditions.
- 钻车采用高效的开山牌螺杆空气压缩机，环保节能，具备完全自主知识产权。
- The drill rig is fitted with the efficient Kaishan screw air compressor. Characterized by energy conservation and environmental protection, it owns the complete proprietary intellectual property.
- 钻车动力单元横置于上层回转机架的尾端与钻臂和推进梁相对称，无论钻臂和推进梁位于任何方向都起到相互平衡的作用。
- The power unit is placed at the end of the upper rotary rack, symmetric with drill boom and advancing beam. It is capable of producing an effect of counterbalance, wherever the drill boom and advancing beam are placed.
- 钻车的行驶、履带调平和车架回转可选配无线遥控功能在驾驶室外面进行操作。
- The travelling of drill rig, track leveling and the optional remote control of frame rotation can be operated outside the cab.



### 技术参数 / Technical Parameters

外形尺寸与重量 / Dimensions and weight		液压凿岩机 / Hydraulic rock drill		钻臂、推进梁及换杆器 Drill boom, advancing beam and rod changer	
运输尺寸(长*宽*高) Transport dimensions (length*width*height)	11100*2520*3320mm	型号 / Model	HC170RP	钻臂举升/Lifting of drill boom	83°
重量 / Weight	15000kg	冲击功率 / Impact power	23.4kW	折叠臂举升/Lifting of folding boom	87°
<b>铰接钻臂及底盘 / Articulated drill boom and chassis</b>		冲击压力 / Impact pressure	180bar	滑架摆角 / Swing angle of Beam	-56°/52°; -20°/94°
离地间隙 / Ground clearance	420mm	冲击频率 / Impact frequency	41Hz	滑架倾斜 / Carriage inclination	125°
机架回转 / Rack rotation	120° +60°	最大扭矩 / Impact frequency	1590Nm	补偿行程 / Compensation stroke	1353mm
钻孔覆盖面积 / Drilling area	26.5m <sup>2</sup>	最大回转压力 Maximum rotary pressure	200bar	凿岩机行程 / Stroke of rock drill	4150mm
履带调平角度 Frequency modulation angle of track	10° up, 10° down	最大回转速度 Maximum rotary speed	130rpm	最大推进力 Maximum propelling force	19kN
行驶速度 / Tramping speed	0-3.5km/h	钎尾润滑 Shank lubrication	空气/油雾 Air/oil mist	推进方式 / Feed Method	马达-滚子链 Motor-roller chain
爬坡能力 / Climbing capacity	30°	润滑油耗量 Fuel consumption of lubrication	15滴/min 15drops/min	经济钻孔深度 Depth of economical drilling	25m
牵引力 / Traction	120kN	钻孔直径 Drilling diameter	76 - 127mm	容杆数量 / Number of rods	6+1
<b>动力单元 / Power unit</b>		<b>控制系统 / Control system</b>		<b>液压系统 / Hydraulic system</b>	
发动机 / Engine	Caterpillar C7.1	行驶 / Travelling	液压先导+无线遥控 (选配) Hydraulic pilot + remote control (optional)	钻杆型号 Specification of drill rod	T45/T51 × 3660
气缸数 / Number of cylinders	6	钻臂 / Drill boom	液压直控 Hydraulic direct control	钻杆螺纹润滑 Thread lubrication of drill rod	标准 Standard
输出功率 / Output power	186 kW/ 2200 rpm	凿岩 / Rock drilling	先导控制 (电/液) Pilot control (electric/hydraulic)	<b>液压系统 / Hydraulic system</b>	
传动形式 / Drive type	齿轮箱 / Gearbox	开孔控制 Opening control	无级 / Stepless	行驶、凿岩 Travelling, drilling	负载传感式 Load sensing
液压泵 / Hydraulic pump	2 × 变量柱塞泵 + 2 × 齿轮泵 2 × variable displacement piston pump + 2 × gear pump	冲击控制 Impact control	冲击压力控制 Control of shock pressure	过滤精度 / Filter fineness	10 μm
螺杆式空压机 Screw air compressor	浙江开山 / Zhejiang Kaishan	防卡 / Anti-jamming	液压 / Hydraulic	冷却能力 / Cooling capacity	+50° 环境温度 Ambient temperature: +50°
风量 / Capacity of air compressor	9.7m <sup>3</sup> /min	电压 / Voltage	24V, 直流 / 24V, DC	液压油箱 Hydraulic oil tank	200L
风压 / Air pressure	10bar	<b>驾驶室 / Cab</b>			
燃油箱 / Fuel tank	350L	安全驾驶室 Safety cab	符合防落石 & 防滚翻标准 Meet the requirements of FOPS and ROPS	座椅 / Seat	可调 / Adjustable
<b>集尘系统 / Dust-collecting system</b>		室内噪声水平 Indoor noise level	低于85dB(A) Below 85dB(A)	空调 Air-conditioning	标准冷暖 Standard temperature
集尘器能力及真空度 Capacity of dust collector and vacuum degree	23m <sup>3</sup> /min; 1000mm水柱 23m <sup>3</sup> /min; 1000mm water column	控制功能 Control function	钻孔、行驶、钻臂动作和换杆器 Drilling, travelling, movement of drill boom and rod changer	娱乐 Entertainment	收音机+MP3 Radio+MP3
滤芯/材料 Filter element/material	13个/纤维 13/fiber				
过滤面积 / Filtering area	10m <sup>2</sup>				
液压马达功率 Power of hydraulic motor	12kW				