

JK 820-2 一体式全液压潜孔钻机

HYDRAULIC CRAWLER MOUNTED
DTH DRILLING RIG

JK 金科钻孔
www.jkzk.com

Atlas Copco Inside



金科钻孔与阿特拉斯 一体化解决方案的代表之作

M 主要系统 / 部件 Main configurations



+ 操作系统 Operation system

操作系统简洁友好，易于上手。钻机的工作运行参数、提示、报警功能集中在仪表台上，便于操作者观察，各项数据一目了然。钻机的开孔角度，空压机的运行参数实时显示，方便操作者准确布孔，掌控全局。操作台分布在驾驶位两侧，操作空间大。

The operation system is simple and ergonomically-friendly. The rig's operating parameters, instructions and warnings all can be clearly displayed on the dashboard, easy for the operator to monitor. The real-time display of hole collaring angle and compressor operating parameters help the operator drill holes precisely and control the rig easily.



+ 驾驶室 Cabin

全封闭驾驶室配置带冷暖空调，FOPS达到欧美劳动保护标准。全方位安全玻璃宽广清晰，使得驾驶者对各个角度准确掌控。超过400mm的离地间距，满足各种严苛路面通过要求，减少底盘碰撞可能。

The sealed air-conditioned cabin is made with FOPS which meets EU and US safety protection standards. The all-around large safety windows offer great visibility and help the operator control the rig precisely from all angles. The high ground clearance of over 400mm suits varieties of tough terrain and minimizes the possibility of collision with ground.



+ 回转机 Rotation unit

双摆线马达回转装置，回转扭矩大、不容易卡钻，同时可以根据不同岩层调节回转速度。进口回转密封件，密封性好、寿命长。

The equipped double cycloid motors can output massive torque and reduce possibility of pipe-stuck situation. And the rotation rate can be continuously adjusted according to different rock formations. The imported seals for the rotation unit is with extraordinary performance and long service life.



+ 空压机 Air compressor

采用阿特拉斯原装两级压缩机系统，可提供压缩气体强劲输出，性能可靠，适合于各种硬度岩石，实现更快进尺游刃有余。

The high-output Atlas Copco air compressor features two stages of compression, powerful and reliable, it suits rock formations of various hardness and offers high penetration rate with ease.



+ 发动机 Engine

采用国III排放标准电喷涡轮增压水冷发动机，功率强大、省油；三级空气过滤系统保障入气清洁，大大降低发动机故障率。

The water-cooled EFI turbo engine offers more power, consumes less fuel and complies with the National III emission standard. The three-stage air filter system ensures intake of clean air and greatly reduces the engine failure rate.





滑架系统

采用不锈钢耐磨套保护特殊压制铝合金推进梁和双摆线马达回转装置，回转扭矩大、不容易卡钻，在确保钻机操作轻便灵活的基础上实现大孔径作业。同时可以根据不同岩层调节回转速度。进口回转密封件，密封性好、寿命长。

Feeding system

The aluminum alloy feed is made of special material and has the protection ability of stainless steel wear-resistant sleeve. The double cycloid motor slewing device has large rotating torque and is not easy to jam. It can realize big hole drilling operation on the basis of ensuring the ease and flexibility of the rig. At the same time, the rotation speed can be adjusted according to different rock formations. Imported rotary seals have good sealing performance and long service life.



自动接卸杆系统

储杆和自动接卸杆的功能操作简单，采用单个手柄就可以实现接杆、收杆、机械手开合以及钻杆倒库的全部动作。

接卸杆采用上下夹紧的方式便于松开钻杆接头，提高了工作效率。

Automatic pipe handling system

All the functions, such as pipe storage, pipe loading and unloading, movement of the mechanical clamps, can be controlled very easily with one single joystick.

Loading and unloading of the drill pipes are easily achieved by upper and lower clamping, greatly raising the working efficiency.



除尘系统

高效全液压除尘器，带有滑动式捕尘罩。收尘效率高，性能稳定，有效的延长了钻机的使用寿命，保证作业人员的身体健康，环保效果好。

Dust collecting system

The efficient hydraulic dust collector is equipped with a sliding dust cover. It boasts high dust collecting efficiency and stable performance, extends the rig's service life and ensures a clean working environment for the operators.



维护保养 Repair and maintenance

维护保养便利，保养点和检查点触手可及，
发动机舱布局合理，
多个机罩门开合方便，使得保养和服务十分便捷。

Convenient maintenance, maintenance and inspection points are easily reached.

Reasonable position of engine,

Maintenance is very convenient because the doors on shed are easy to open and close.



钻杆自动润滑系统



自动冲洗空滤系统

更低的价格, 更高的配置

JK820-2颠覆您的想象

With less price and more equipment,
JK820-2 is set to revolutionize your imagination.

技术参数 Technical specifications

车体规格 General

总质量	Weight	kg	21000
全 长	Length	mm	9920
全 宽	Width	mm	2700
全 高	Height	mm	3500

钻杆储杆器 Drill pipe changer

钻孔直径	Drilling diameter	mm	Φ140-Φ190
钻孔深度	Drilling depth	m	35
钻杆直径	Pipe diameter	mm	Φ89/Φ102 Φ114
钻杆长度	Pipe length	m	5
储杆能力	Pipe capacity	支/ Piece	6+1 5+1
冲击器规格	Hammer specs	"	5 - 6- 7

空压机 Air compressor

Atlas Copco 2级螺杆空压机	Atlas Copco two-stage rotary screw air compressor		
压力	Working pressure	bar	24
最大输出流量	Max. FAD	m³/min	24

推进梁 Feed

推进梁	Feed	铝合金推进梁	
推进补偿	Feed extension	mm	1400
推进行程	Feeding stroke	mm	5895
滑架摆动角度	Feed swing angle	°	左36右95

发动机 Engine

型 号	Model	QSM11-C400-30	
形 式	Type	水冷6缸电喷柴油机 Water-cooled six-cylinder EFI diesel engine	
额定功率	Rated power	kw/rpm	298/2100
燃油箱容量	Fuel tank capacity	L	700

回转马达 Rotary motor

回转速度	Rotation rate	rpm	0-120
最大扭矩	Max. rotation torque	Nm	3600
推进方式	Feeding method	马达驱动+链轮链条式 Hydraulic motor + Chain	
推进力	Feeding force	KN	30
提升力	Lifting force	KN	30

底 盘 Undercarriage

履带宽	Track width	mm	350
离地间隙	Ground clearance	mm	≥400
履带架摆动角度	Track oscillation	°	±10
行走速度	Walking speed	km/h	2 / 3
爬坡度	Grade ability	°	20

集尘器 Dust collector

除尘方式	Collecting method	全液压除尘 Hydraulic dust collecting	
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