

新升级
NEW

JK590BC-2A

履带式液压潜孔钻机

Crawler Mounted Hydraulic DTH Drilling Rig



JK590BC-2A 履带式液压潜孔钻机

JK590BC-2A履带式液压潜孔钻机,结构全面优化,进尺成本更低,设计更人性化。采用柴油发动机(电动机)—液压油泵组为动力装置,由液压马达实现钻机回转、推进、提升、行走及液压油缸摆角定位等辅助动作,JK590BC-2A钻机在钻孔作业时,只有潜孔冲击器消耗压缩空气。

JK590BC-2A履带式液压潜孔钻机主要用于水电工程,露天采矿,道路修建,国防工程的钻凿爆破孔作业。

JK590BC-2A hydraulic down-the-hole drilling rig has better performance than the previous generation: fully optimized structure, lower drilling footage cost, more user-friendly design. The diesel engine (electric motor)-hydraulic oil pump set is used as the power unit, and the hydraulic motor realizes the auxiliary movements such as drilling, feeding, lifting, walking and hydraulic cylinder positioning.

JK590BC-2A drilling rig is mainly used for hydro-power engineering, open pit mining, road construction, drilling and blasting operation of national defense engineering.

主要部件 Main configurations

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回 转 机 Rotation unit

双马达回转,回转扭矩更大,且可实现回转速度双速调节,设有转速切换阀,两档转速快速切换,以便钻机适用不同工况。运行更平稳,并不需要减震接头等附加部件进行减震,故障率更低,降低了日常维护成本。松散层不易卡钻,成孔率高。

进口回转密封件,密封性好、寿命长。

高分子衬板,耐磨、不需注油润滑,更方便。

锰钢机加导轨,架体坚固、导轨无磨损。

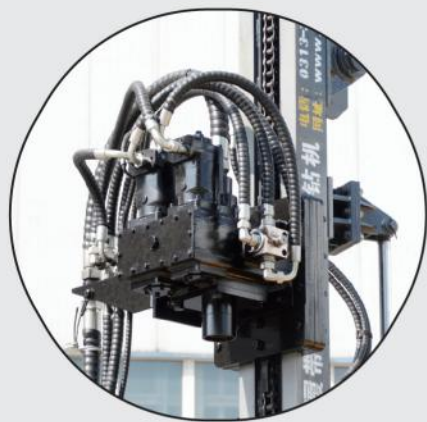
Dual rotation motors output larger torque, and optional double-speed handle makes the rig adapt to different formations to improve efficiency. Compared to straight gearbox, the new planetary gearbox is more compact, more efficient and more stable, with lower failure rate and lower maintenance cost.

Rod jamming reduced and hole quality increased.

Imported rotary seal with good sealing performance and long life.

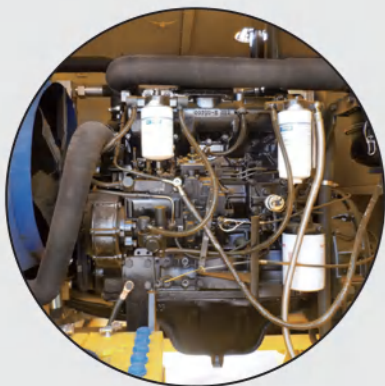
Polymer liner is wear-resistant, no need of grease.

The manganese steel guide rail is sturdy and wear-free.



主要部件 Main configurations

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动力装置 Power train

进口液压油泵，耐压高，排量大，质量更可靠，寿命长。
涡轮增压增压发动机，动力强劲，易维护保养。
两级空气滤清装置，确保发动机吸入洁净空气，安全可靠。
油水一体散热器，保证在高温环境下，发动机和液压系统正常工作。

Imported hydraulic oil pump has high pressure resistance, large displacement, more reliable quality and long life.

Supercharged engine, powerful, easy to maintain.

The two-stage air filter device ensures that the engine sucks in clean air, which is safe and reliable.

The oil-water integrated radiator ensures the normal operation of the engine and hydraulic system in a high temperature environment.



免维护推进机构 Maintenance-free feed mechanism

液压机械双重锁定，既保证液压马达的大扭矩稳定输出，使用寿命大大提高，机械锁定又杜绝液压内泄，防止下滑，二者结合，各取所长。
技术更先进，属于新一代产品，并不需要日常加油维护。

The hydraulic and mechanical double lock not only ensures the stable output of the large torque of the hydraulic motor, but also greatly improves the service life than the worm and gear. The mechanical lock also prevents hydraulic leakage and prevents sliding. The combination of the two, each takes its own strengths. The technology is more advanced and belongs to a new generation of products, which does not require daily refueling and maintenance.



操纵台 Control panel

独立行走操作系统，金科钻机采用三档变位独立行走操纵台，视野更宽，操纵更安全。行走时和工作时采用不同的工作角度，适合工地的不同使用情况，设计更加安全化、人性化。
原装进口操纵阀，性能更可靠。
集中操纵台，便于钻机的各项操作控制。

Independent walking operating system, Jinke drilling rig adopts a three-speed variable independent walking console, which has a wider field of view and safer operation. Different working angles are used when walking and working, which is suitable for different use conditions on the construction site, and the design is safer and more humane.

The original imported control valve has more reliable performance.

Centralized console for easy operation and control of the rig





钻机空压机一体化方案解决者

免维护底盘 Maintenance-free undercarriage



原装进口行走马达，爬坡能力强，可牵引空压机。
双速行走系统，快速行走节省移位时间。
履带架浮动15°，装配行走平衡系统，适于崎岖现场施工。
免维护支重轮，无需注油。
加装履带护板，防止履带脱轨。
可配置无动力解锁式行走马达。

The original imported walking motor has strong climbing ability and can tow the air compressor.
Two-speed walking system, fast walking saves shift time.
The crawler frame floats 15° and is equipped with a walking balance system, which is suitable for rugged site construction.
Maintenance-free support rollers, no oil filling.
Install track guards to prevent track derailment.
It can be equipped with unpowered unlocking walking motor.

钻 臂 Drilling arm



多角度、加长型功能钻臂，钻孔范围更广，可钻水平孔、前后倾角孔、侧向倾角孔，比同类 钻机钻孔工作扇形面积多20%。

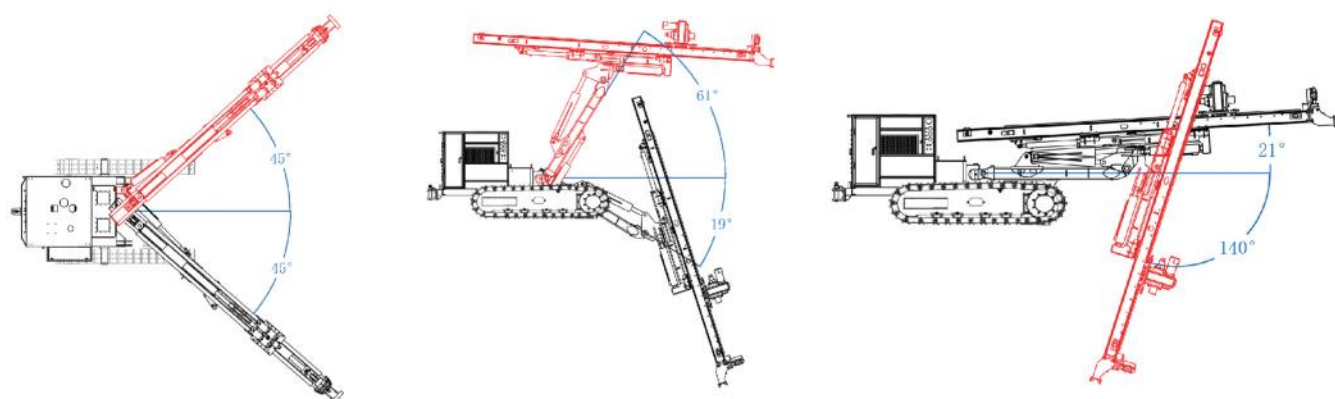
The multi-angle, extended-function drill arm has a wider range of drilling. It can drill horizontal holes, front and rear angled holes, and lateral angled holes, which is 20% more than the drilling sector of similar drilling rigs.



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工作角度 / Drilling angle



技术参数 / Technical Specifications

钻机型号 Model	JK590BC-2A
钻孔直径 Hole diameter	Φ90 -Φ165mm
钻孔深度 Hole depth	50m
换杆长度 Rod-changing length	3m
适应岩石硬度 Applicable rock hardness	f=6-20
工作风压 Working air pressure	1.2-2.5MPa
耗风量 Air consumption	11-21m³/min
滑架行程 Feeding stroke	4138mm
最大水平凿岩高度 Max. horizontal drilling height	3370
回转速度 Rotation rate	0-80rpm/0-160rpm
回转扭矩 Rotation torque	4000Nm/2000Nm
行走速度 Walking speed	2Km/h、3Km/h
爬坡能力 Grade ability	24°
动力 Power	玉柴Yuchai 70KW/康明斯Cummins 74KW(选配Optional)
	电动Electric 55KW
除尘器（选配）Dust collector (optional)	全液压干式除尘 Hydraulic dry type dust collector
	湿式除尘 Wet type dust collector
外形尺寸 Dimension (LWH)	7000mm×2200mm×2100mm
整机重量 Weight	7200kg