



**中国恒天集团有限公司**  
CHINA HI-TECH GROUP CORPORATION

**B**KY-250D牙轮钻机  
Isat Hole Drilling Rig



**南昌凯马有限公司**  
NANCHANG KAMACO., LTD





## KY-250D牙轮钻机

### ■ KY-250D Blast Hole Drilling Rig

• KY-250D牙轮钻机是在原江西采矿机械厂多年生产的国优金奖产品--KY-250A基础上改进设计的先进、高效的穿孔设备。钻机采用交流变频电机驱动，顶部回转，减速机—封闭链条—齿轮齿条连续加压，高钻架，电、气、液联合操纵，压气排渣工作机构，可在 $F \geq 5$ 的各种矿岩上穿凿 $\phi 220 \sim 250$  mm、孔深为18.5m的爆破炮孔。适用冶金、有色、煤矿、化工等各种大型、特大型露天矿山穿孔作业，也可用于大型水电工程、道路建设工程、军事工程等穿孔作业。

• Based on the KY-250A blast hole drilling rig , a national high quality gold medal products manufactured by Jiangxi Mining machine plant ,KY-250D blast hole drilling rig has been improved into an advanced and efficient drilling equipment. The drilling rig adopts heavy duty inverter and AC motors, top turning and reducer-sealed chain-gear rack with continuous pressure, high mast, multi-controlled by electric, pneumatic, hydraulic, air injection slagging operating mechanism, which can drill  $\phi 220 \sim 250$  mm blast hole and 18.5m on the rock hardness  $F \geq 5$  mine rocks. It can be used for open pit mine in metallurgical, nonferrous metals, coal, chemical and other open pit mine, also for hydraulic power plant, road construction and military project.

### ■ 大风量排渣空压机

High flow dust-blowing air compresssor







## 主要特点

### ■ Main Features

- 1、采用新型履带材料，接地比压小，整机重心低，钻机运行平稳、通过能力强；
- 2、优质低碳合金钢制作的平台与钻架，提供了稳定可靠的结构基础，确保了整机的使用寿命；
- 3、一次穿孔深度可达18.5米，强劲高效的回转动力、合理的轴压力配备及高效排渣空压机，提高了整机穿孔效率，降低了使用成本。
- 4、本机具备复杂环境的适应能力；断链保护、小车限位装置及深度显示仪的配备，钻机运行安全、可靠；
- 5、电、液、气联合控制系统，自动化程度高；配备工业空调及电暖器的司机室及操作台，防尘隔热，视野开阔，具有良好的操控性能及人性化的工作环境；
- 6、采用DTC控制方式(直接转矩控制)变频器控制回转、行走及提升变频电机。电机调速范围宽，精度高；电气系统维护简单，性能可靠、现场适应能力强。

#### • Main features :

1. Adopt the new crawler system, low ground contact pressure, low machine gravity, stable drilling operation, and strong penetrating capacity;
2. the platform and the drilling rig is using high quality low carbon alloy steel, which can supply stable and reliable operation and ensure the machine's service life;
3. the depth of drilling hole without extra drilling rod can reach 18.5 meters, strong and high efficient rotating force, reasonable pulldown force equipment and high efficient slag discharge air compressor, it can improve efficiency of blasting drill of whole machine and lower the cost.
4. The machine is applicable for complex environment, equipped with chains broken-protection, trolley spacing and monitoring device, the drilling can be operated safely and reliably.
5. Multi-control system composed with electric, hydraulic and pneumatic, high automation; driver chamber and platform are equipped with industrial air conditioner and electric heaters, dust and flies proof, open view, easy control performance and convenience of working environment;
6. Adopt DTC controlling way (torque controlled directly), converter controlled rotating, propelling and lifting convert motor. Wide range and accurate motor adjusting speed; Simple, reliable and mining applicable maintenance of electric system.



■ 钻机回转机构  
Mast and Rotating Structure



■ 操纵系统  
Control Unit



## KY-250D牙轮钻机主要技术参数

### ■ KY-250D blast hole drilling rig main specification

|               |   |                                |   |
|---------------|---|--------------------------------|---|
| 钻孔直径(毫米)      | 250   | Hole Dia (mm)                  | 250   |
| 孔深(米)         | ≤18.5                                       | Hole depth(m)                  | ≤18.5   |
| 孔向(度)         | 90  | Hole direction(degree)         | 90  |
| 适应矿岩普氏硬度系数    | f=4~20                                      | Corresponding rock hardness    | f=4~20  |
| 轴压(千牛)        | 0~370                                       | Pulldown force(kn)             | 0~370   |
| 钻进速度(米/分钟)    | 0~2.1                                       | Pushing speed(m/min)           | 0~2.1   |
| 额定回转扭矩(牛米)    | 9405(9915)                                  | Rated rotating torque( n.m)    | 9405(9915)  |
| 提升速度(米/分钟)    | 0~21  | Hoist speed(m/min)             | 0~21  |
| 行走速度(公里/小时)   | 0~1.2                                       | Propel speed(km/h)             | 0~1.2   |
| 爬坡能力(度)       | 21(12°)                                     | Gradeability(degree)           | 21(12°)   |
| 排渣空压机:        | 风量: 36(40)m <sup>3</sup> /min<br>风压: 0.5MPa | Slag discharge air compressor: | Air flow:36(40)m <sup>3</sup> /min<br>Air pressure:0.5MPa |
| 除尘方式          | 湿式(压气喷水)                                    | Dedusting                      | Wet(air injection spraying water)                         |
| 加压方式          | 电机或油马达                                      | Pressure way                   | Electric motor or oil motor                               |
| 回转速度(转/分)     | 0~88  | Rotating Speed(m/min)          | 0~88  |
| 行走方式          | 履带  | Type of Travelling             | Crawler   |
| 变压器容量(KVA)    | 400   | transformer capacity(KVA)      | 400   |
| 适用电源电压(伏)     | 6000/10000                                  | Voltage of Power Supply(V)     | 6000/10000  |
| 外形尺寸(米) 钻架垂直时 | 12.1×6.22×26.7                              | Dimensions (m) Mast vertical   | 12.1×6.22×26.7  |
| (长×宽×高) 钻架水平时 | 26.1×6.22×7.2                               | (L×W×H) Mast horizontal        | 26.1×6.22×7.2   |
| 机重(吨)         | 105(107)                                    | Machine weight (T)             | 105(107)  |

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