

## KT5D型一体式露天潜孔钻车

### KT5D Integrated Surface DTH Drilling Rig



KT5D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。以玉柴非道路柴油机为单一动力，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、钻杆润滑模块、液压干式集尘系统等。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 KT5D integrated surface DTH drilling rig 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 Yuchai engine which simultaneously drives the screw compressor system and hydraulic transmission system. The drill rig is equipped with the automatic rod handling system, drill pipe lubrication module and hydraulic dry dust collection system, etc. It is characterized by excellent integrity, high automation, efficient drilling effect, environment-friendliness, energy conservation, flexibility, simple operation and driving safety.



#### 技术参数 / Technical Parameters

凿岩硬度 /Drilling hardness	f=6-20
钻孔直径 /Drilling diameter	90-115 mm
经济凿孔深度 /Depth of economical drilling	24 m
行走速度 /Travelling speed	0-3 km/h
爬坡能力 /Climbing capacity	25°
离地间隙 /Ground clearance	330 mm
整机功率 /Power of complete machine	162 kW/ 2200r/min
柴油机 /Diesel engine	玉柴YC6J220-T300 /Yuchai YC6J220-T300
螺杆机 /Screw compressor	13 m <sup>3</sup> /min /16 bar
外形尺寸 (长×宽×高) /Outer dimensions (L×W×H)	8300×2450×2650 mm
重量 /Weight	9200 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48°向下16°/Up 48°, down 16°
滑架俯仰角度 /Tilt angle of beam	147°
滑架摆角 /Swing angle of carriage	向右53°向左52°/向右97°向左10°/Right 53°,left52°/Right 97°,left10°
钻臂摆角 /Swing angel of drill boom	向右34°向左25°/Right 34°, left 25°
车架调平角度 /Leveling angle of frame	向上10°向下10°/Up 10°, down 10°
一次推进长度 /One-time advance length	3500 mm
补偿长度 /Compensation length	900 mm
冲击器 /DTH hammer	3吋/ 3"
钻杆 /Drilling rod	φ64×3000 mm
容杆数量 /Number of rods	7+1
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)
接杆方式 /Method of extension rod	自动接卸杆 /Automatic unloading rod
钻杆润滑方式 /Method of drilling rod lubrication	自动喷油润滑 /Automatic oil injection and lubrication

