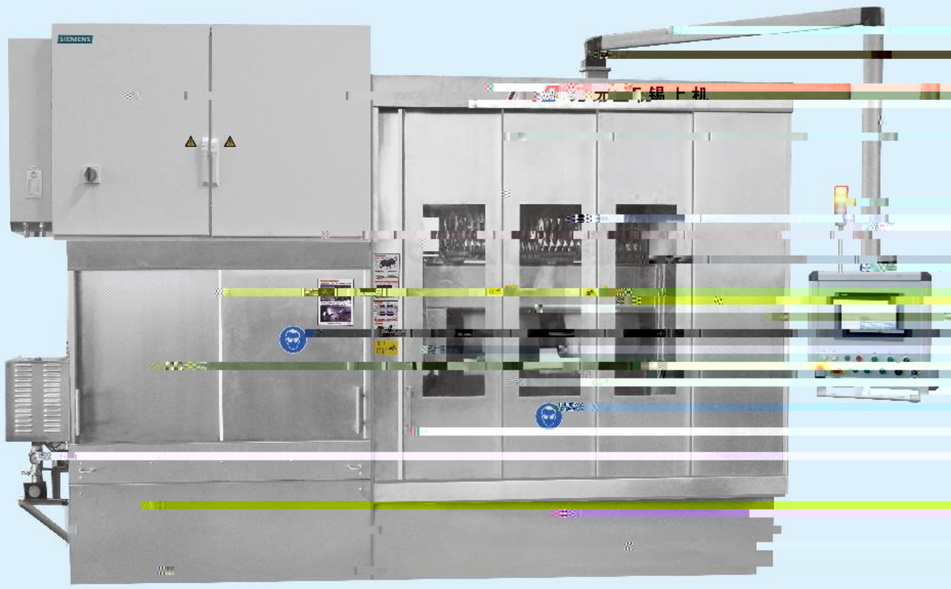
WSK026 数控金刚线蓝宝石开方机

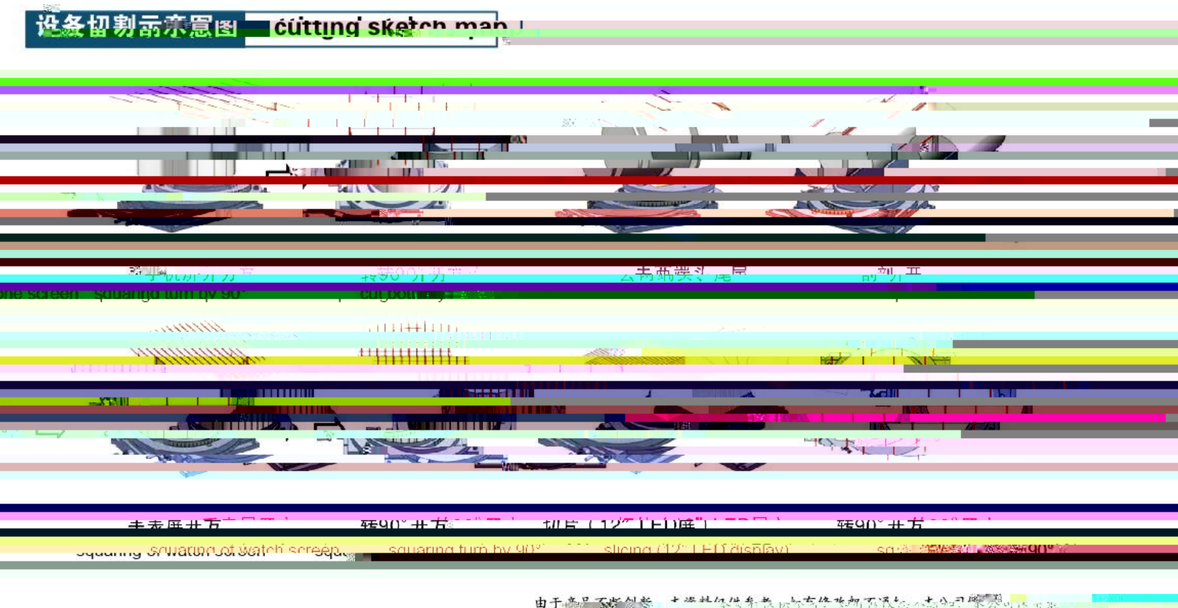
WSK026 CNC cylindrical plain grinding machine for sapphire



主要参数Specifications and Technical Parameters

加工工件参数Workpiece parameters	
工件规格Specifications	Φ500-Φ530mm
工件重量Weight	≤250kg/根
主要参数Main parameters	
金刚线直径Diameter of diamond wire	Φ0.20-0.5mm
线网同时切割线数Quantity of parallel wire	根据工件大小和切割片厚度而定 Depending on the size of the workpiece and the thickness of the cutting piece
线网间距Space between wire	方片Square≥28mm，切片Slice≥0.5mm/片
工件台速度Speed of worktable	方片Square: 0.6-5mm/min 切片Slice: 0.5-1mm/min
加速度Acceleration	5m/s²(max)
线速度Line speed	30m/s(max)
摇摆角度Swing angle	±3°
摇摆速度Swing speed	20度/秒(max)
工件晶向Workpiece crystal orientation	360°+90°
切割方向Slicing orientation	可前后双向切割 Forward or backward slicing (two-way exchange of cutting)
电源供给及配套设备Power supply unit and matching	
电源要求Requirement of power	电压Voltage：380V，频率Frequency：50Hz
冷却水流量温度Cooling water	10℃-25℃
周围环境温度Environment temperature	15℃-25℃

设备切割示意图 Cutting sketch map



- 本设备为金刚线多线开方机，主要用于新能源行业LED蓝宝石锭的开方、切视窗片以及半导体行业单晶硅棒、多晶硅锭的开方，是新能源的主要配套设备；
- 采用西门子控制技术的一体化PC机，15"触摸屏；
- 设备布局合理，机械强度高而且热稳定性好，整体外观采用全封闭不锈钢设计；
- 摇摆单元做为金刚线网在蓝宝石锭切割时的进给运动，缩短了切割间，并提高了晶锭的端面质量，减少了后续的研磨量的数控，更有效地降低线耗、磨料；
- 模块化组合，上下工作台都可进行360°+90°的旋转，方便向，方便切出任意尺寸；
- 通过调整切割轮上的线宽，方便切割各种尺寸的条块；
- 优化张和效率；
- 利用操作手柄，可以快速布置线网，缩短间，减少人员管理成本；
- 采用双工位，多方位满足用户，双工位的设计，可实现应用于蓝宝石的开方以及切片和截断，切割视窗玻璃等功能。

This equipment is diamond wire saw squarer, applied in New Energy industry, processing LED sapphire ingots, cutting windows film and used in semi-conductor industry, s... and monocrystalline silicon rod, bar and polysili... ots, which is the main equipment of new energy industry.

- Apply integrated PLC of SIEMENS controlling system, 15" touch screen.
- Reasonable layout, high mechanical strength and perfect thermal stability. Overall appearance applies full-closed stainless steel design.
- Swing unit optimizes performance of slicing sapphire, sky... ...tude and improving end-face quality of ingots, reduced quantity of pulleys, which decreases consumables such as wire and pulleys.
- The equipment can not only ... ...but also ... ... the ... ... single can be combined as modular station, up to upper and lower ... workpieces can ... ... crystal orienta... slice whatever size ... with ... ... by by regulating depth of wire on cutting wheel. ... ... wire size of block.
- Optimize ... ... minimize tension of control system, by high-tension slicing, ensuring quality and efficiency of squaring.
- Use operating handle, fast layout cable, shortening time of standby and reducing management cost.
- Apply by double station, adjust crystal ... ... tion of multi-aspect.
- Flexible layout, ... used in squaring, slicing and cutting.

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