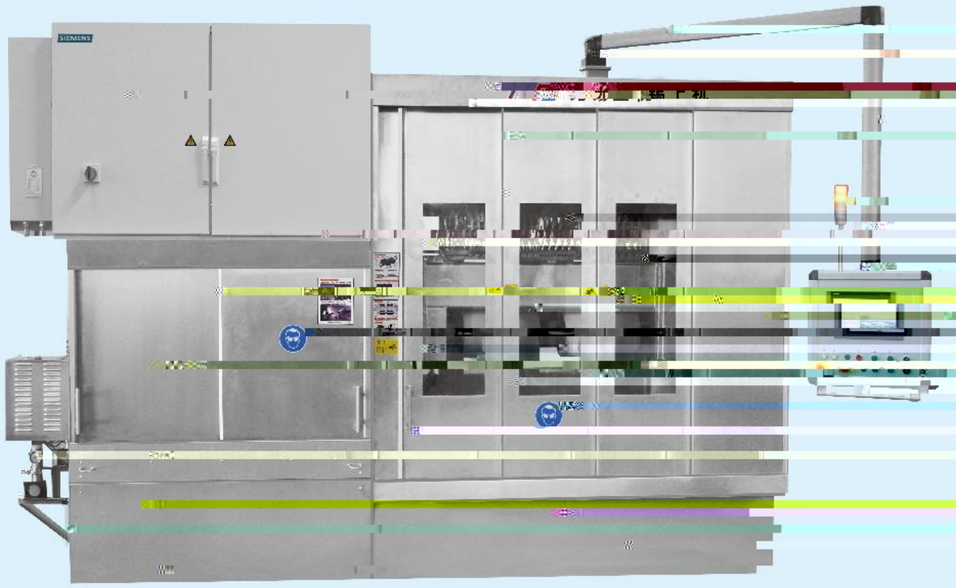
NEW ENERGY SERIES PRODUCTS OF EQUIPMENT

# WSK026

## 数控金刚线蓝宝石开方机

WSK026 CNC cylindrical plain grinding machine for sapphire



| 加工工件参数Workpiece parameters | |
|---|---|
| 工件规格Specification | |
| 工件重量Weight | |
| 主要参数Main parameters | |
| 金刚线直径Diameter of diamond wire | |
| 线网数量Quantity of parallel wire | |
| 线网间距Space between wire | |
| 工件台速度Speed of worktable | |
| 加速度Acceleration | |
| 线速度Line speed | |
| 摇摆角度Swing angle | |
| 摇摆速度Swing speed | |
| 工件晶向Workpiece crystal orientation | |
| 切割方向Slicing direction | |
| 电源供给及配置Power supply and matching | |
| 电源要求Requirement of power | 电压Voltage：380V，频率Frequency：50Hz |
| 冷却水流量Cooling water | |
| 周围环境温度Environment temperature | |

## 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；
- 摇摆单元做为本金刚线切割蓝宝石的关键部件，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成本，更有效地降低线耗、磨料耗；
- 模块化组合，上下工作台都可进行360°旋转，方便切割任意方向，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晶块；
- 优化参数和效率；
- 利用操作手柄，可以快速布置线网，缩短了设备待机时间，减少人员管理成本；
- 采用双工位，多方位调节晶向，以及实现晶锭的线割和截断，切割视窗玻璃等功能。

This equipment is diamond wire saw square, applied in New Energy industry, processing LED sapphire ingots, cutting windows film and used in semi-conductor industry, sapphire and monocrystalline silicon round bar and polysilicon ingots, which is the main equipment for new energy industry.

Apply integrated PLC of SIEMENS controlling system, 15" touch screen.

Reasonable layout, high mechanical strength and perfect thermal stability. Appearance applies full-closed stainless steel design.

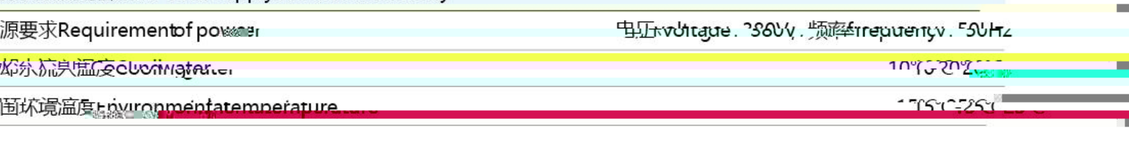
Swing unit optimizes performance of slicing sapphire, shortening time and improving end face quality of ingots, reducing quantity of pulleys, which decreases consumables such as wire and pulleys.

The equipment can not only [illegible] also single the slice can be combined as modular station, up/down and left/right workpieces can adjust crystal orient[illegible] slice whatever size[illegible] by by regulating depth of wire on cutting wheel. Use with proper size of block.

Optimize [illegible] Optimize 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 double station, aglust crystal o[illegible] direction, multi-aspect[illegible] Flexible layout and used in squaring, slicing and cutting.





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