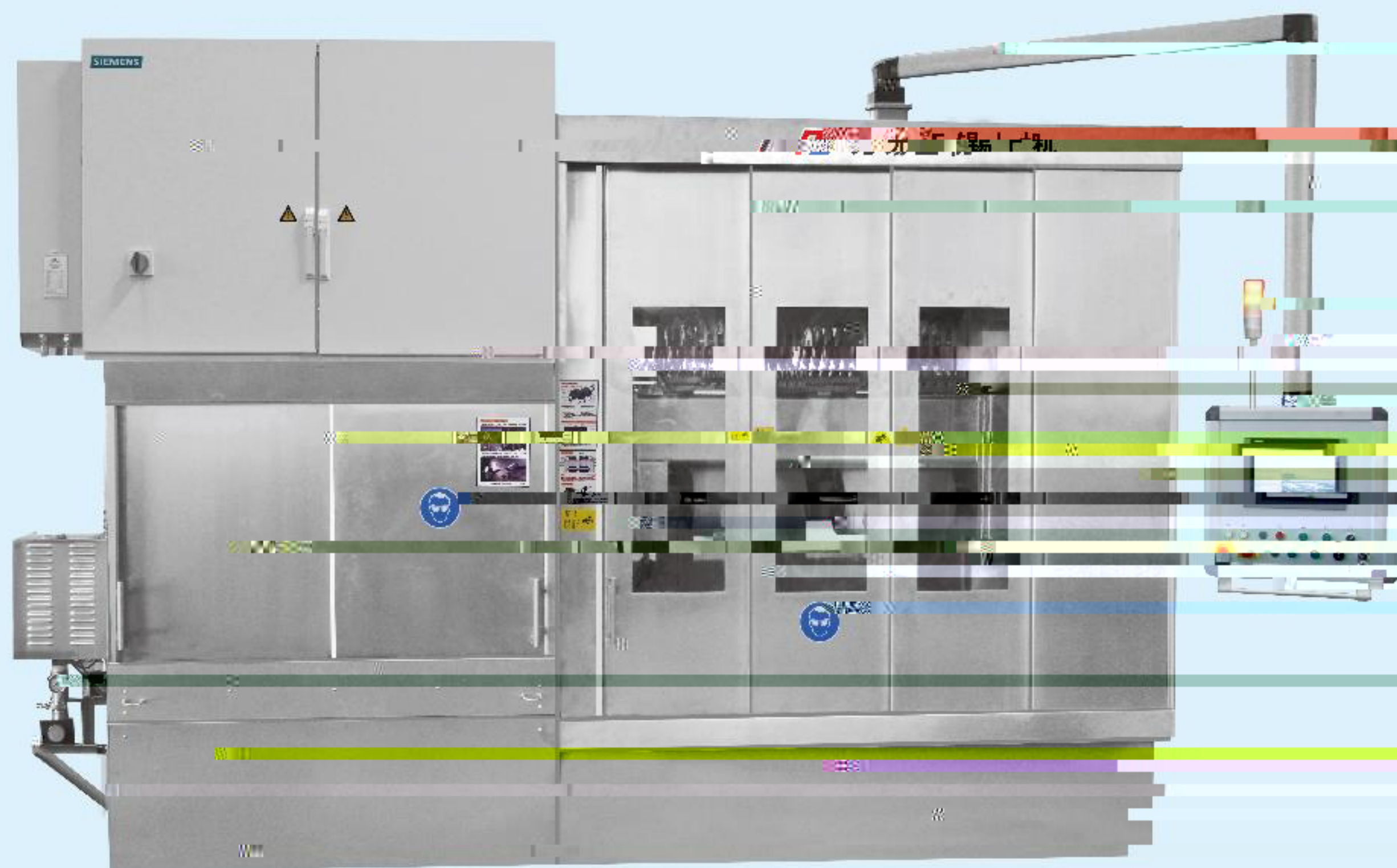


WSK026

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 Workpiece specifications

工件重量 Workpiece weight

主要参数 Main parameters

金刚线磨片 Diamond wire

金刚线磨片数量 Quantity of barile wire

线网间距 Line spacing

工件台速度 Worktable speed

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 Sliding direction

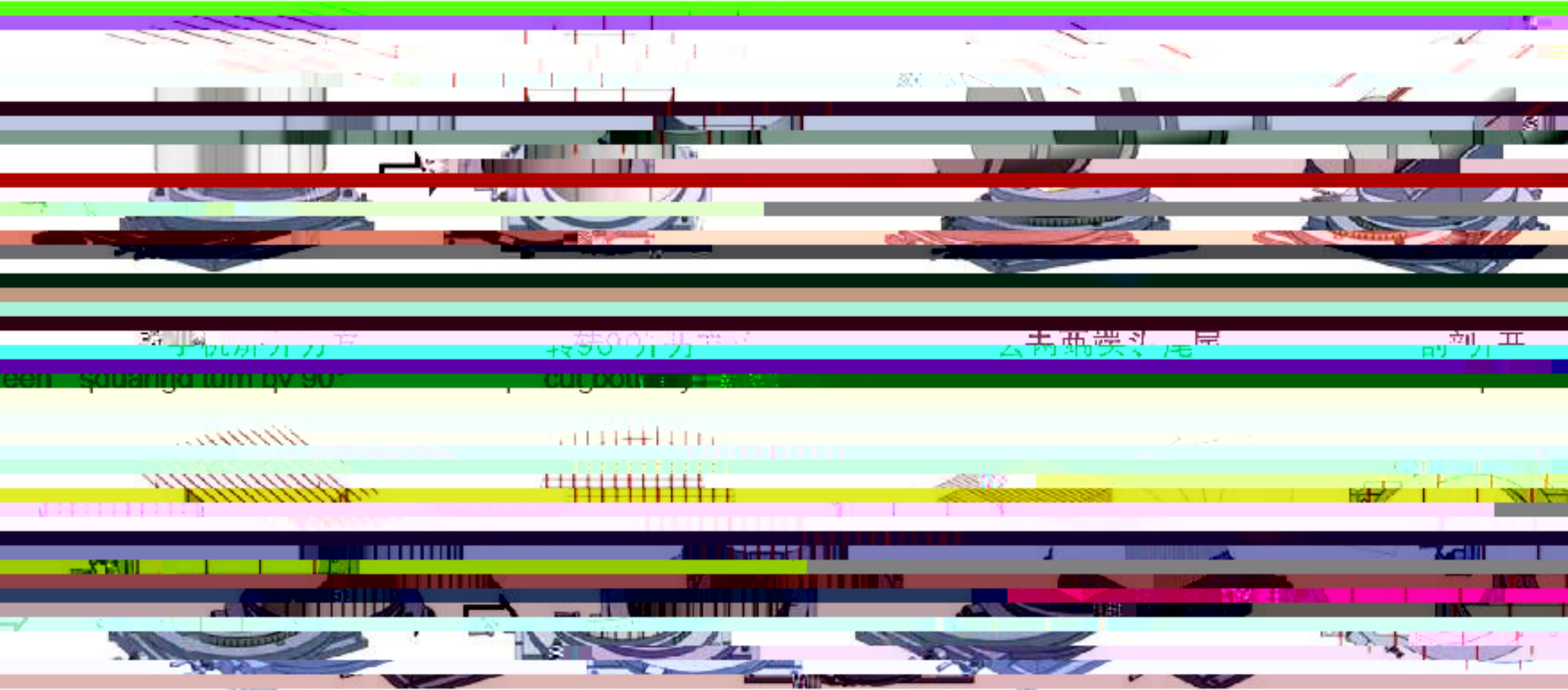
电源供给及配套设施 Power supply and auxiliary facilities

电源要求 Requirement of power

冷却水流量要求 Cooling water flow rate

周围环境温度 Environment temperature

设备切割示意图 Cutting sketch map



未处理片

转90°片

切片 (1/2" E-H 片)

转90°片

Squaring and turning of rough sapphire

Squaring turn by 90°

Slicing (1/2" E-H sapphire)

Squaring turn by 90°

- 本设备为金刚线多线开方机，主要应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机电一体化设备，15"触摸屏。
- 设备布局合理，机械强度高且热稳定性好，整体外观采用全封闭不锈钢设计。
- 摇摆单元采用了全封闭切割轮面罩单元，降低了噪音，提高了晶圆切割精度，减少了切轮数量的设计，更有效地降低线耗、磨轮等耗材。

- 模块化组合，上下工作台都可进行360°±10°的旋转，方便切割任意尺寸。
- 通过调整切割轮上的线宽，方便切割各种尺寸的来料。
- 优化切割轮设计，提高切割效率，降低切割成本。
- 利用操作手柄，可以快速布置线网，缩短了设备待料时间，减少人员管理成本。
- 采用双工位，多方位调节时间，以及灵活的线网布置，可应用于蓝宝石的开方以及切片和磨片，切割范围宽广等。

- This equipment is diamond wire saw squaring, applied in New Energy industry, processing LED sapphire ingots, cutting windows and used in semi-conductor industry, squaring silicon round bar and polysilicon rods, which is the main equipment for new energy industry.
- Apply integrated PLC or SIMATIC 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, fully enclosing the upper and lower grinding and face quality of ingots, reducing quantity of pulleys, which reduces consumption of abrasives and pulleys.
- The equipment can not only square and turn, but also slice. The slice can be controlled as horizontal or vertical, and the upper and lower worktables can be adjusted to cut sapphire of any size.
- By regulating depth or wire on cutting wheel, slice width, size or block.
- Optimizes tension or control system, 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, adjust crystal size and position, fast setup and flexible layout, and can be used in squaring, slicing and turning.