

技术规格参数 Specifications and Technical Parameters

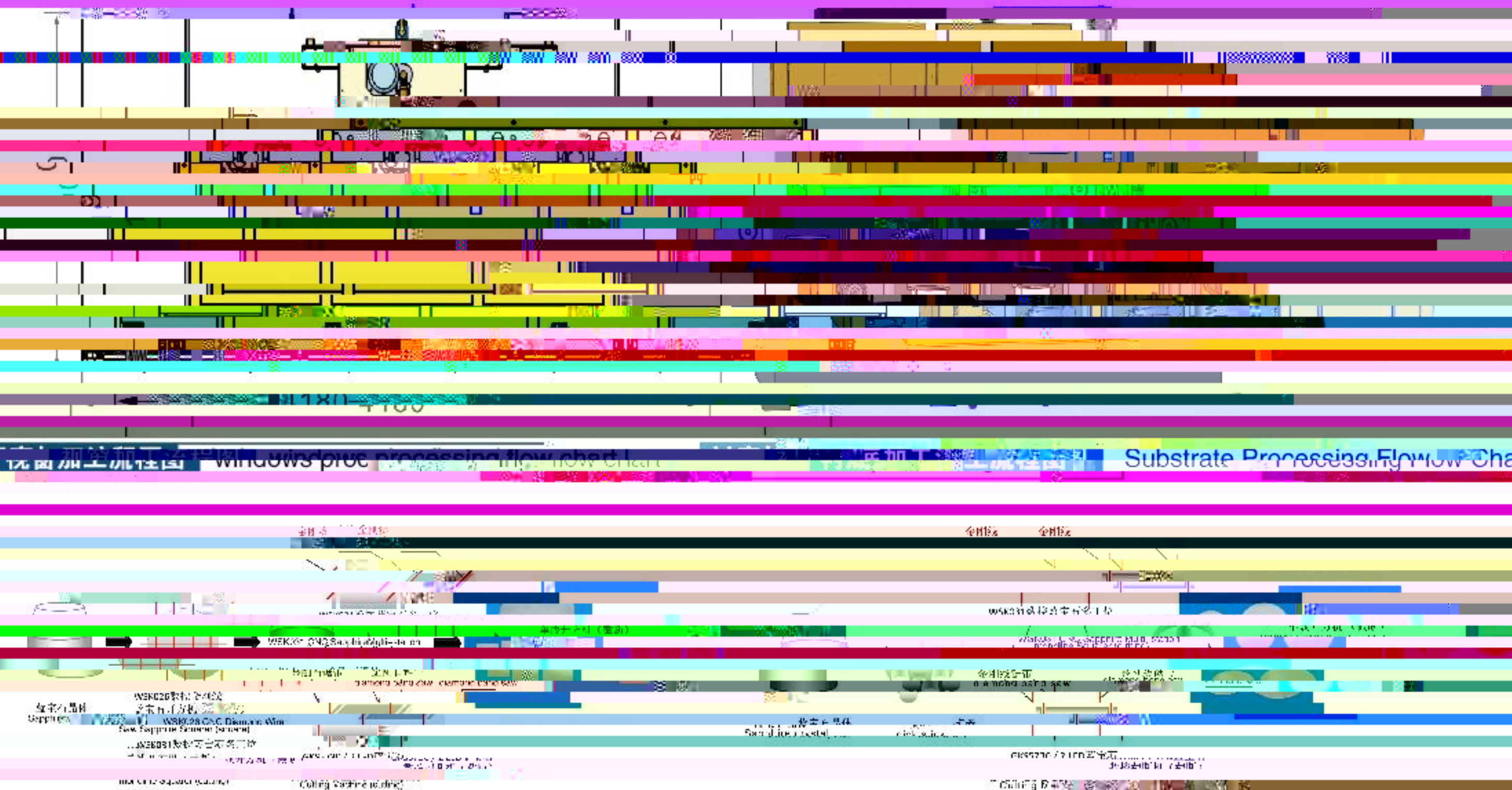


数控蓝宝石多工位单线切割机  
WSK031 CNC Sapphire Multi Station Monoline Squarer



技术规格 Specifications	Φ300x3115mm
工件重量 Weight	<250kg/件
主要参数 Main parameters	
金刚线规格 Diameter of diamond wire	Φ0.20~0.3115mm
工位数量 NO. of station	相独立控制站
工件长度 Special work length	
加速度 Acceleration	(g)
线速度 Line speed	0~2000m/min
摇摆角度 Swing angle	±90°
摇摆速度 Swing speed	0~25度/秒
工件角度 Workpiece crystal orientation	0°/90°/180°
切割方向 Slicing orientation	前进或后退切割/双向/层切
电源供给及配套设施 Power overhead match facility	
电压要求 Requirement of power	电压 voltage: 380V, 频率 frequency: 50Hz
冷却水流入温度 Cooling water	10°C-20°C
环境温度 Ambient temperature	15°C-25°C

设备流程图 Equipment flowchart



机床用途与性能特点

- 本设备为金刚线单线切割机，主要用于LED蓝宝石晶体的切割，是新能源的主要配套设备。
- 采用国外进口数控系统，操作方便。
- 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。
- 摇摆单元优化了金刚线切割蓝宝石的性能，缩短了切割时间，并提高了晶锭的端面质量，减少消耗数量的设计，更有效地降低线耗、清除碎料。
- 设备采用三工位，可同时切割不同的蓝宝石晶体，并能独立控制每个工位，切割速度也可不同。
- 采用一体式线架同时控制三个工位，系统简单，同时也能使用多线切割。
- 优化张力控制系统，利用高张力切割，保证了切割的质量和效率。
- 采用三工位旋转工作台，多工位有180度，单一工位有90度等方案。
- 采用整体式设计，配备切割用水箱，外观美观且易清洁。

主要应用用途和结构特点

- This equipment is diamond monoline squarer applied in processing LED sapphire ingots, which is the main equipment for new energy industry.
- Apply abroad imported CNC control system, friendly human-computer interface, easy operation.
- Reasonable layout, high mechanical strength and thermal stability, overall appearance stainless steel design.
- Swing unit optimizes performance of slicing sapphire, shortening time, and improve end face quality of ingots, reducing quantity of wire's consumption and clear debris.
- Apply three-station, slicing different sapphire ingots simultaneously, or control each station separately, independent speed in operation in different.
- Apply one set of retractable cable drives 3 stations save 50% wire, and be able to use old wire used in multi-line as well.
- Optimize tension of wire, ensure the quality and efficiency of cutting.
- Apply three-station rotary worktable, guard crystal orientation on multi-aspect. Single plane wiring program.
- Apply overall design, match with water tank for cooling, beautiful appearance and easy to clean inside.