

技术规格参数 Specifications and Technical Parameters

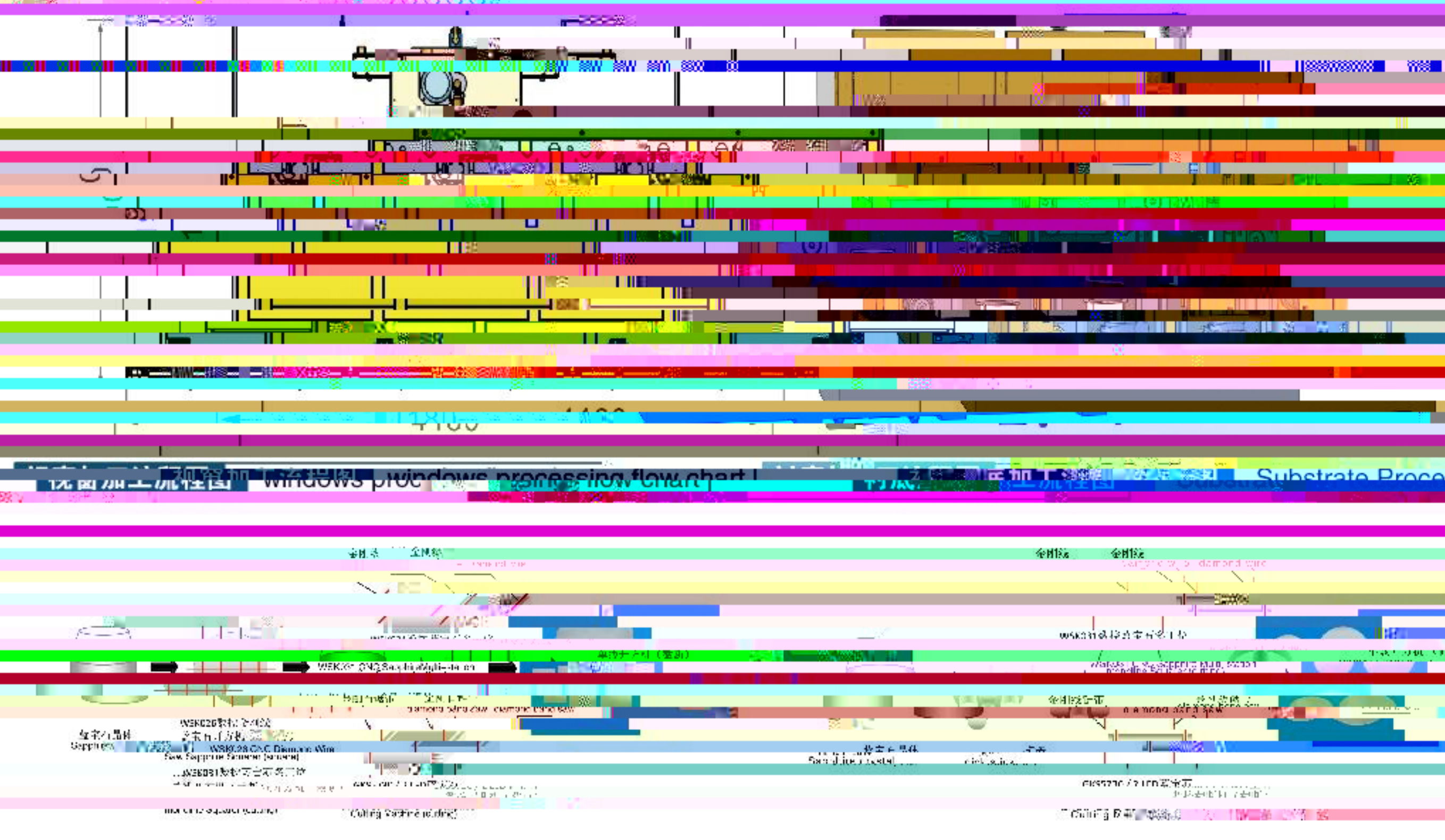


数控蓝宝石多工位单线切割机
WSK031 CNC Sapphire Multi Station Monoline Squarer



技术规格参数 Specifications	工作重量 Work weight	<250kg (不含)
主要参数 Main parameters	切割线规格 Diameter of diamond wire	Φ2.00~3.15mm
	工位数量 NO. of station	相称后定制
	工件长度 Worktable length	1.5m
	加速度 Acceleration	10G
	线速度 Wire speed	0~2000m/min
	摇摆速度 Swing speed	0~100°/min
	工件高度 Worktable crystal orientation	0°~90°
	切割方向 Slicing orientation	前进或后退切割 双向均压切割
	电源供给及配置 Power supply and configuration	电压 voltage: 380V; 频率 frequency: 50Hz
	冷却水流入温度 Cooling water temperature	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

- 本设备为全副线单线切割机，主要用于LED蓝宝石晶体的切割，是新能源的主要配套设备。
- 采用国外进口数控控制系统，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，节约成本。
- 设备采用三工位，可同时切割不同的蓝宝石晶锭，且能独立控制每个工位，切割速度也可不同。
- 采用一体式张紧系统，张紧力稳定，使用寿命长。
- 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10种切，单一平面布线等方案。
- 采用整体式设计，配备切割用水箱，外观美观且易维护。

Main Application and Its Main Performance Features

- 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 good thermal stability, overall appearance using all-enclosed stainless steel design.
- Swing unit optimizes performance of slicing sapphire, shortening time, and improving end face quality of crystal, reducing quantity of wire, which increases consistency of wire.
- Apply three-station, slicing different sapphire ingots simultaneously, or control each station separately, cutting speed can be different.
- Apply one-body tensioning system, stable tensioning force, long service life.
- Optimize tension of diamond wire, ensure the quality and efficiency of cutting.
- Apply three-station rotary worktable, guards crystal orientation on multi-aspect. Single plane wiring program.
- Apply overall design, match with water tank for cooling, beautiful appearance.