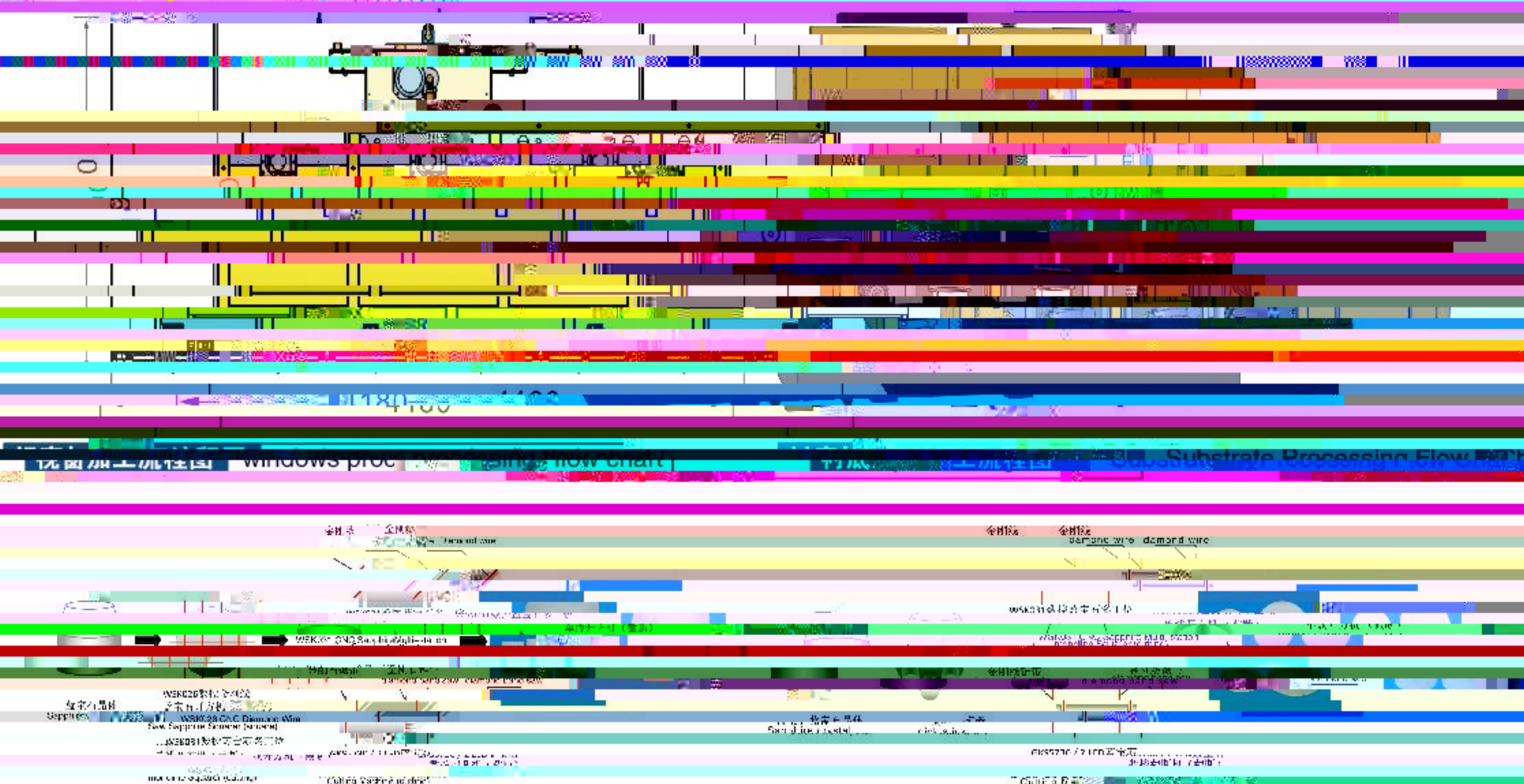


技术规格参数 | Specifications and Technical Parameters

机床规格 Specifications	4500x3000x2100mm
工件重量 Weight	<250kg/件
主要参数 Main parameters	
金刚线规格 Diameter of diamond wire	Φ0.20~Φ1.5mm
工位数量 NO. of station	根据需求定制
工件台面积 Area of worktable	1.5~10m²
加速度 Acceleration	1G (10m/s²)
线速度 Line speed	20~100m/min
摇摆速度 Swing speed	0~30°/s
工件姿态 Workpiece crystal orientation	0°~360°/s
切割方向 Slicing orientation	前进或后退切割/双向切割
电源供给及配套设施 Power supply and matched facility	
电源要求 Requirement of power	电压 voltage: 380V, 功率 power: 30kW
冷却水流入温度 Cooling water	10°C~20°C
环境温度 Environmental temperature	15°C~35°C

设备布局图 | Equipment layout



WSK031

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



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，运行稳定，操作简便。
- 设备布局合理，机械强度高，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、消耗材料。
- 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。
- 采用一套收放线系统，位置准确，使用简单。
- 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，多工位同时工作，单一面布线等方案。
- 采用整体式设计，配备冷却水系统，外观美观且内部整洁。

Main Applications and Structural 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, highly human-computer interface, easy to operate.
- Reasonable layout, high mechanical strength and thermal stability, overall appearance design.
- Swing unit optimizes performance of diamond sapphire, shortening time, and improving end-face quality of ingots, reducing the number of consumption.
- Apply three-station, slicing different sapphire ingots simultaneously, or control each station separately, speed of swing and rotation is different.
- Apply a set of retractable cable drive 3 stations save 50% wire, and be able to use old wire used in multi-line as well.
- Optimize tension of diamond wire, ensure the quality of cutting.
- Apply three-station rotary worktable, grind crystal orientation on multi-aspect. Single plane wiring program.
- Apply overall design, matched with water tank for cooling, beautiful appearance and clean inside.