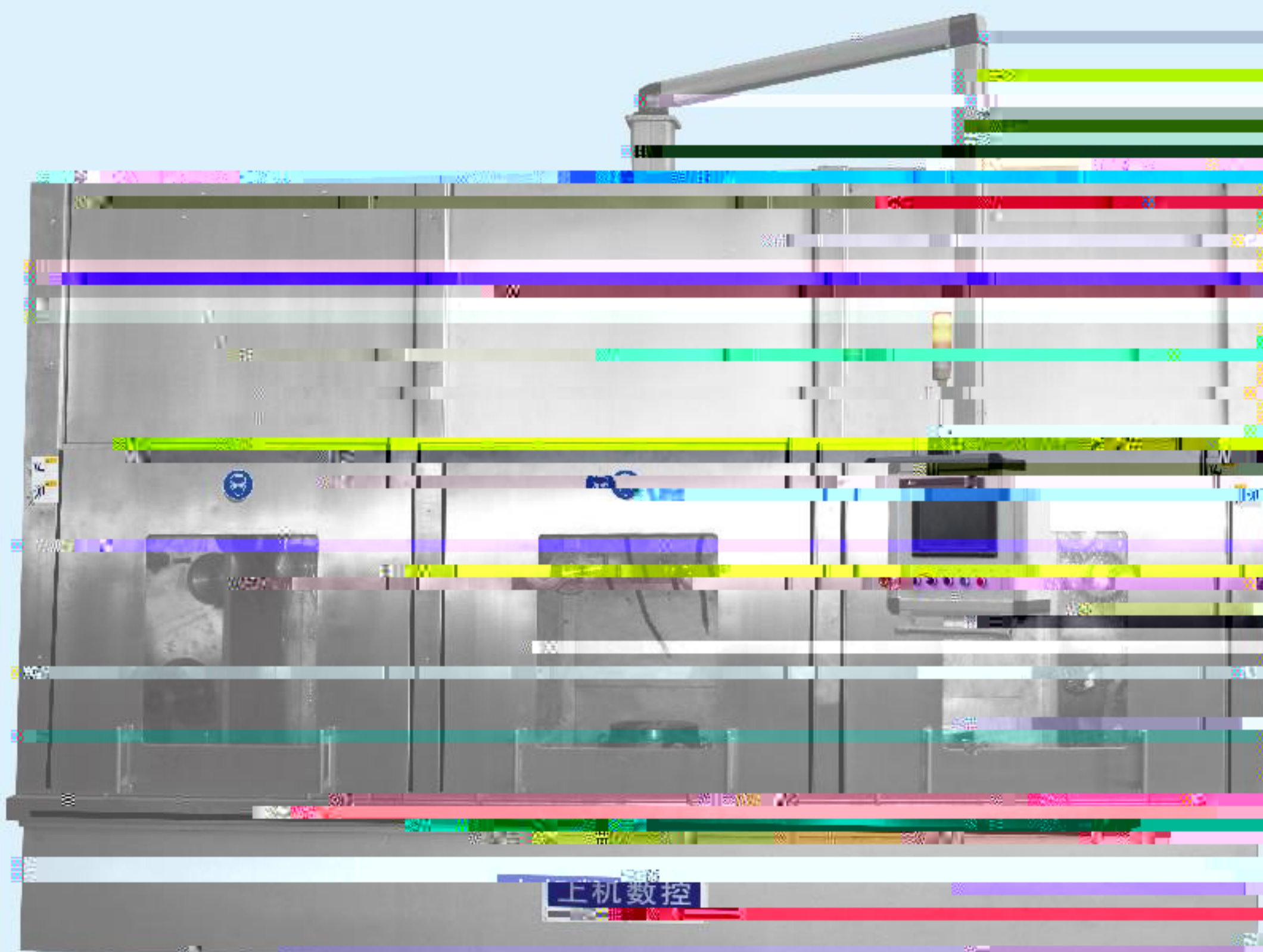


WSK031 数控蓝宝石多工位单线切割机

WSK031 CNC Sapphire Multi Station Monoline Squarer



技术规格参数 Specifications and Technical Parameters

外形规格Sections	4500x3000x2700mm
工件重量Weight	<250kg/件
主要参数Main parameters	
金刚线规格Size of diamond wire	Φ0.20mm±0.15mm
工位数量NO. of station	根据需求定制
工件台重量Weight of worktable	
加速度Acceleration	1G (10m/s²)
线速度Line speed	20m/min (max)
摇摆速度Swing speed	10°/s
工件坐标Workpiece crystal orientation	0°/90°/180°
切割方向Slicing orientation	前进或后退切割/双向均质切割
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; 频率frequency: 50Hz
冷却水流入温度Cooling water	10℃-20℃
环境温湿度Environment temperature	15℃-35℃

设备流程图 Equipment flow chart



机床用途与性能特点

- 本设备为蓝宝石单线切割机，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，性能稳定。
- 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、滑轮的磨损。
- 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；
- 采用一套张紧线同时控制三个工位，省去了多套张紧线使用，节约了成本。
- 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，多工位双向切割，单一平面切线等方案；
- 采用整体式设计，配备切削冷却液，外观美观且内部整洁。

Main Applications and Main Features

- This equipment is diamond monoline squarer applied in processing LED sapphire ingots, which is the main equipment for new energy industry.
- Adopt foreign imported CNC control system, the user-friendly computer interface, easy to operate.
- Reasonable layout, high mechanical strength and perfect thermal stability, overall appearance using all-enclosed stainless steel design.
- Swing unit optimizes performance of diamond wire cutting sapphire, shortening time, and improving end-face quality of ingots.
- Equipment uses three stations to cut different sapphire ingots simultaneously, or control each station separately, and can control cutting speed independently.
- Adopt a set of retractable cable to control three stations, save 50% of wire, and be able to use old wire used in multi-line as well.
- Optimize tension control system, using high tension cutting, ensuring the quality and efficiency.
- Adopt three stations rotating worktable, multi-aspect, single plane wiring program.
- Adopt overall design, matched with water tank for cooling, beautiful appearance and clean inside.