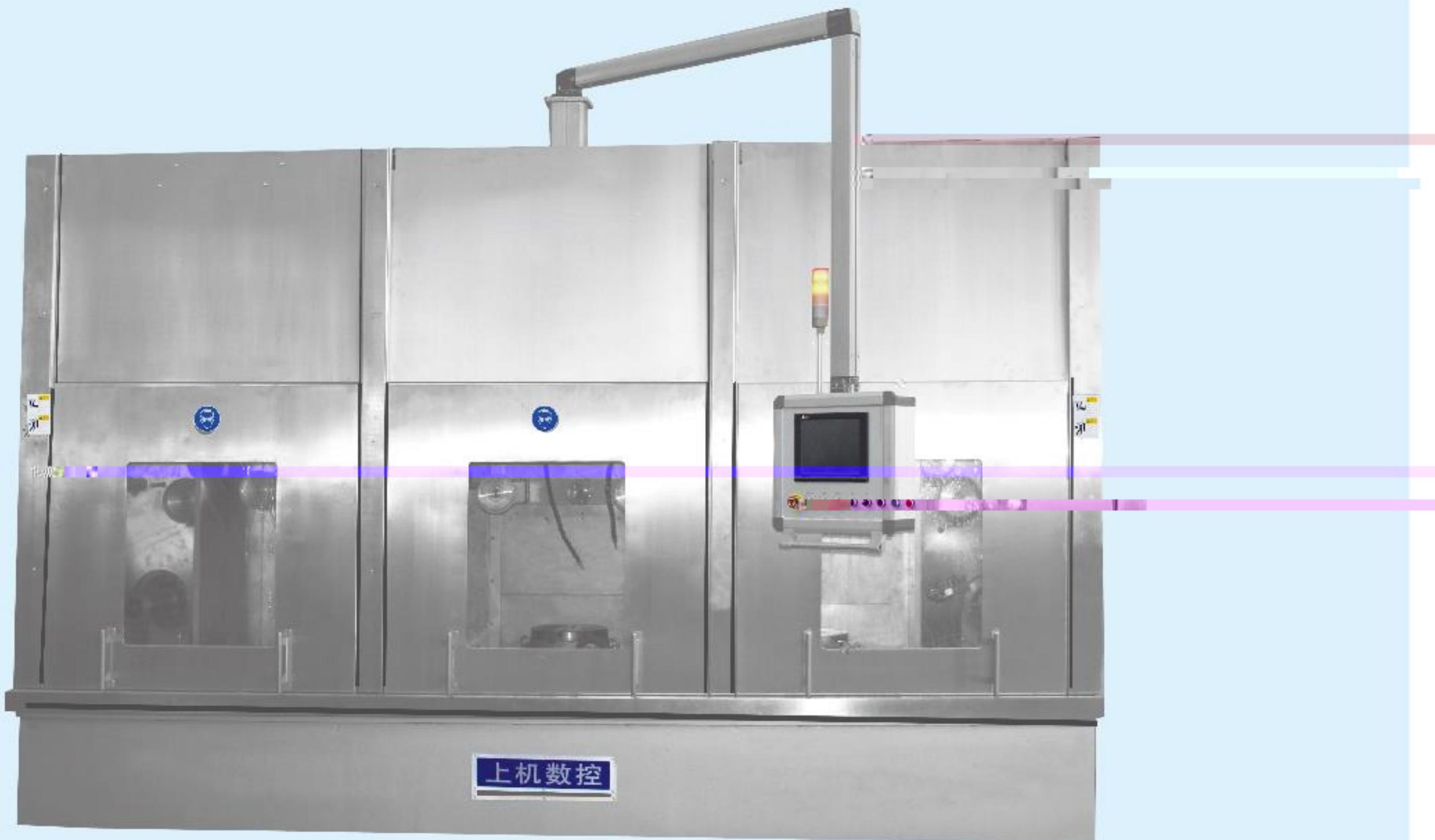


WSK031

数控蓝宝石多工位单线开方机 WSK031 CNC Sapphire Multi Station Monoline Squarer



机床用途与性能特征

- 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；
- 采用国外进口数控控制系统，人机友好界面，操作简便；
- 设备布局合理，机械强度高而且热稳定性好；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；减少滑轮数量的设计，更有效地降低线耗、滑轮等耗材；
- 设备采用三工位，可同时切割不同的蓝宝石晶体，也能独立控制每个工位，切割速度也可不同；
- 采用一套张力同时带动3个工位，省线缆，节省空间，使用多线切的旧线更换；
- 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，多方位调节晶向，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, friendly human-computer interface, easy to operate.
- Reasonable layout, high mechanical strength and perfect thermal stability. Overall appearance applies full closed stainless steel design.
- Swing unit optimizes the performance of diamond wire cutting, shortens the cutting time, improves the quality of the end face of the crystal ingot; Reduces the number of pulleys, effectively reduces the consumption of wire, pulley and other materials.
- Apply three-station, slicing different sapphire ingots simultaneously, or control each station separately, speed of slicing can also be different.
- Apply one set of retractable cable that drives 3 stations, save 50% wire, and be able to use old wire used in multi-line as well.
- Optimize tension of control system, by high-tension slicing, ensuring quality and efficiency in square.
- Apply three-station rotary worktable, adjust crystal orientation on multi-aspect. Single plane wiring program.
- Apply overall design, matched with water tank for slicing, identical appearance and clean inside.

技术规格参数 Specifications and Technical Parameters

加工工件参数 Workpiece parameters	Φ500x500mmx3/4#
工件规格 Specifications	Φ500x500mmx3/4#
工件重量 Weight	< 250Kgx3件
主要参数 Main parameters	
金刚线直径 Diameter of diamond wire	Φ0.23~0.5mm
工位数量 NO. of station	根据导轮槽距而定
工作台面 Worktable surface	
加速度 Acceleration (max)	
线速度 Line speed	20m/s(max)
摇摆角度 Swing angle	+83°
摇摆速度 Swing speed	25 度/秒
工件晶向 Workpiece crystal orientation	360° + 90°
切割方向 Slicing orientation	前进或后退切割/双向互换切割 forward or backward cutting/two-way exchange cutting
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°C-20°C
周围环境温度 Environment temperature	15°C-25°C

设备局部图 Local picture

