WSK031

数控蓝宝石多工位单线切方机

WSK031 CNC Sapphire Multi Station Monoline Squarer



技术规格参数 Specifications and Technical Parameters

加工工件参数Workpiece parameters	
工件规格Specifications	Φ300x5（Φ500x5）mm×2件
工件重量Weight	≤25Kg/2件
主要参数Main parameters	
金刚线线径Diameter of diamond wire	Φ0.20（Φ0.23x0.5mm
工位数量NO. of station	根据客户要求而定
工件台运动Worktable motion	
加速度Acceleration	(max)
线速度Wire speed	(max)
摇摆角度Swing angle	±8°（±10°
摇摆速度Swing speed	25次/分
工件启动Workpiece crystal orientation	360°/90°
切割方向Slicing orientation	前进或后退切割，双向可运行切割 Forward/backward cutting, two-way reciprocating 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：3x(V)，频率frequency：50Hz
冷却水流入温度Cooling water	10℃-20℃
加工环境温度Environmental temperature	15℃-25℃

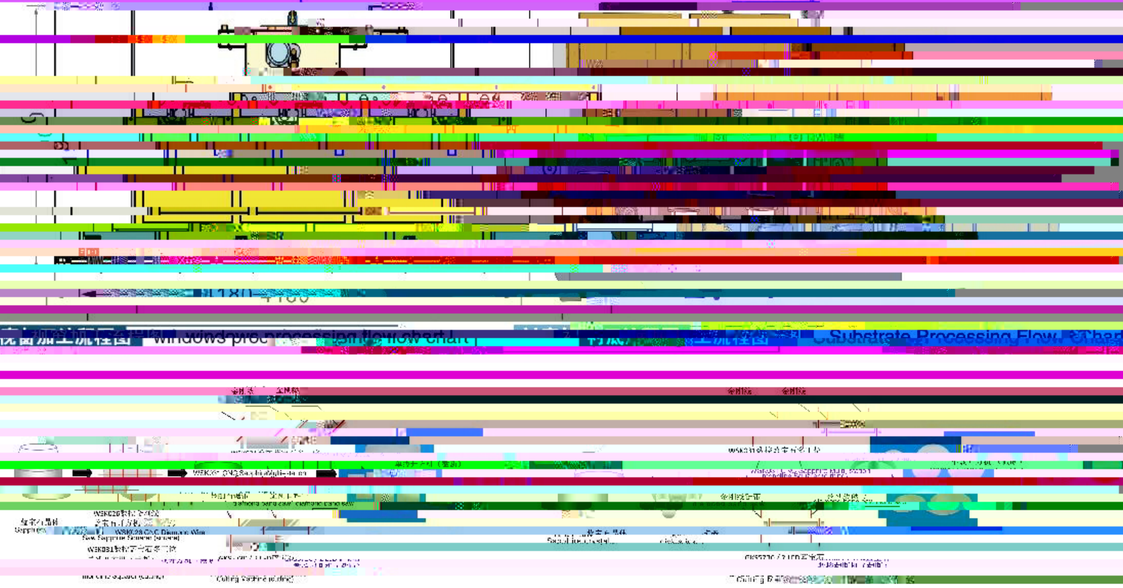
机床用途与性能特点

- 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，人机友好界面，操作简单；
- 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；
- 采用一台伺服电机带动多个工位，节省线50%，同时也能使用多线切割的旧线来切；
- 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 Cost 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-enclosed stainless steel design.
- Swing unit optimizes performance of slicing sapphire, shortening time, and improving end face quality of ingots, reducing quantity of pulleys, which decreases cost on consumables.
- Apply tree-station, slicing different sapphire ingots simultaneously, or control each station separately, speed can also be different.
- Apply one set of rotatable cable that drives 3 stations, save 50% wire, and be able to use old wire used in multi-line as well.
- Optimize tension of cutting system, apply high tension cutting, assure quality and efficiency of cutting.
- 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.

设备局部图 Local pictures



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