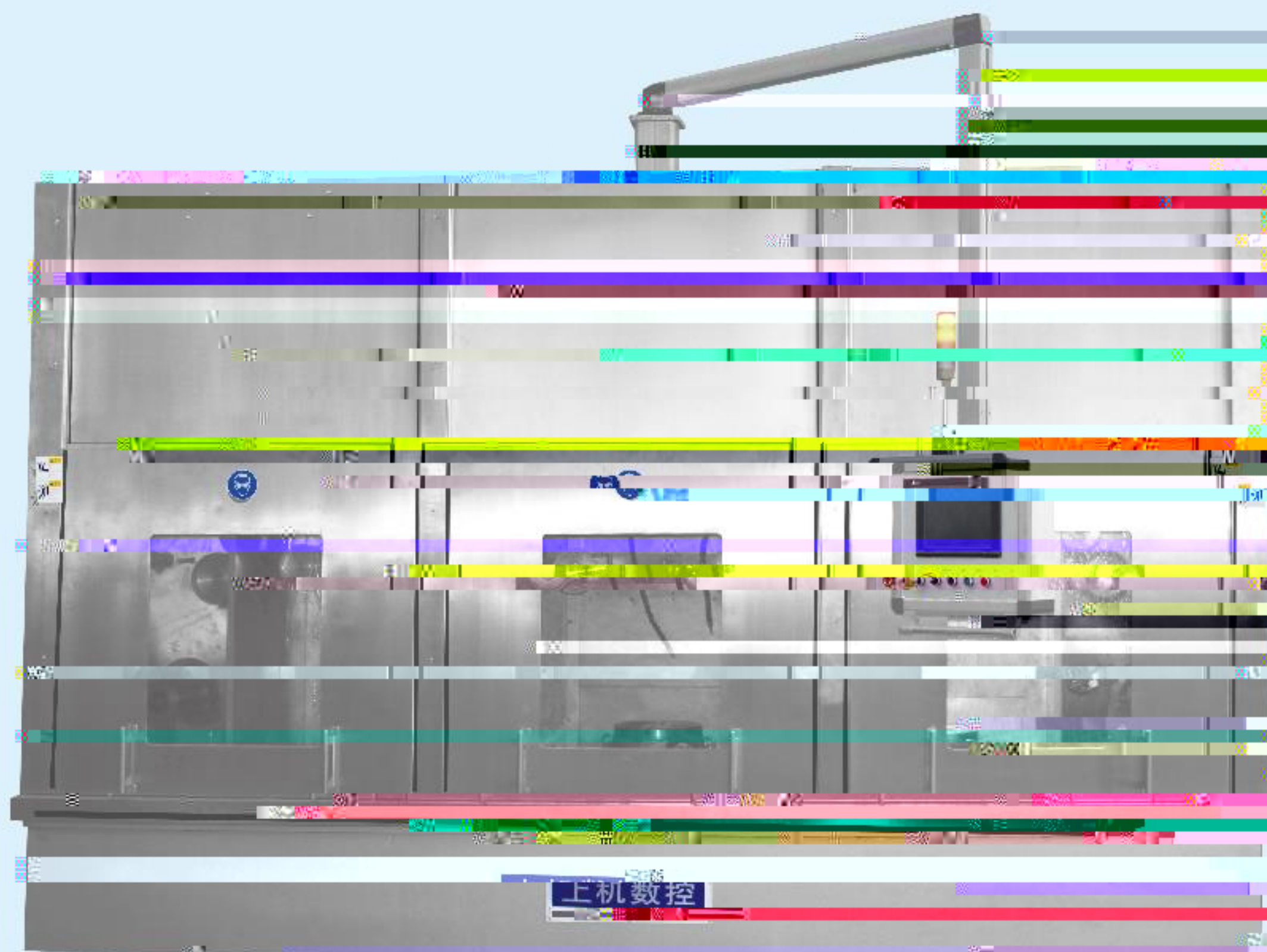


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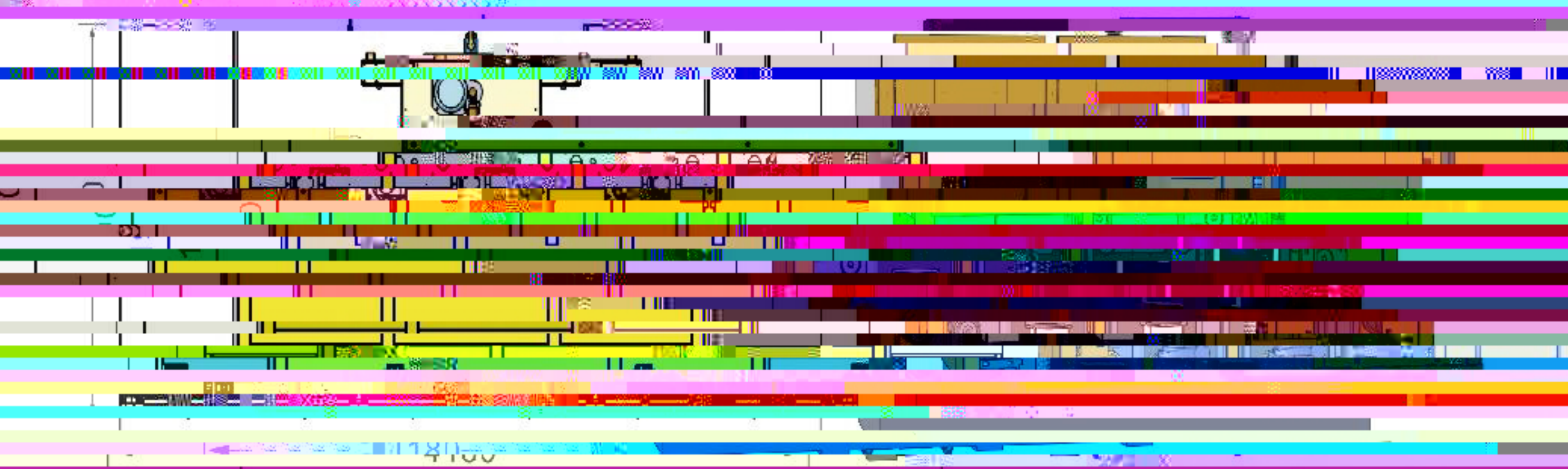
数控蓝宝石多工位单线切割机
WSK031 CNC Sapphire Multi Station Monoline Squarer



技术规格参数 | Specifications and Technical Parameters |

机床规格Specifications	Φ300X3150mm/31#
工件重量Workload	<250kg/件
主要参数Main parameters	
金刚线规格Grain size of diamond wire	Φ0.20mm/23-11.5mm
工位数量NO. of station	可根据客户需求定制
工件台数量Worktable	1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100
加速度Acceleration	1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100
线速度Line speed	20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100
摇摆速度Swing speed	1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100
工件角度Workpiece crystal orientation	20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100
切割方向Slicing orientation	前进或后退切割/双向切割/双向切割
电源供给及配套设施Power supply matched facility	1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100
所需功率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 flowchart |



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，运行稳定可靠。
- 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、消耗耗材。
- 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。
- 采用一体式切割头，可同时对不同规格尺寸的晶体进行切割，使用方便。
- 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，单一平面切割等方案。
- 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 Characteristics

- This equipment is diamond monoline squarer, applied in processing of 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 perfect thermal stability, overall appearance design.
- Swing unit optimizes performance of diamond wire, shortening time, and improving end face quality of ingots, reducing quantity of consumables.
- Apply three-station, slicing different sapphire ingots simultaneously, or control each station separately, speed of swing and inclination can be different.
- Apply design of retractable cable driven 3 stations, save 50% of wire, and be able to use old wire used in multi-line as well.
- Optimize tension of diamond wire, reduce consumption of diamond wire.
- 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 interior.

