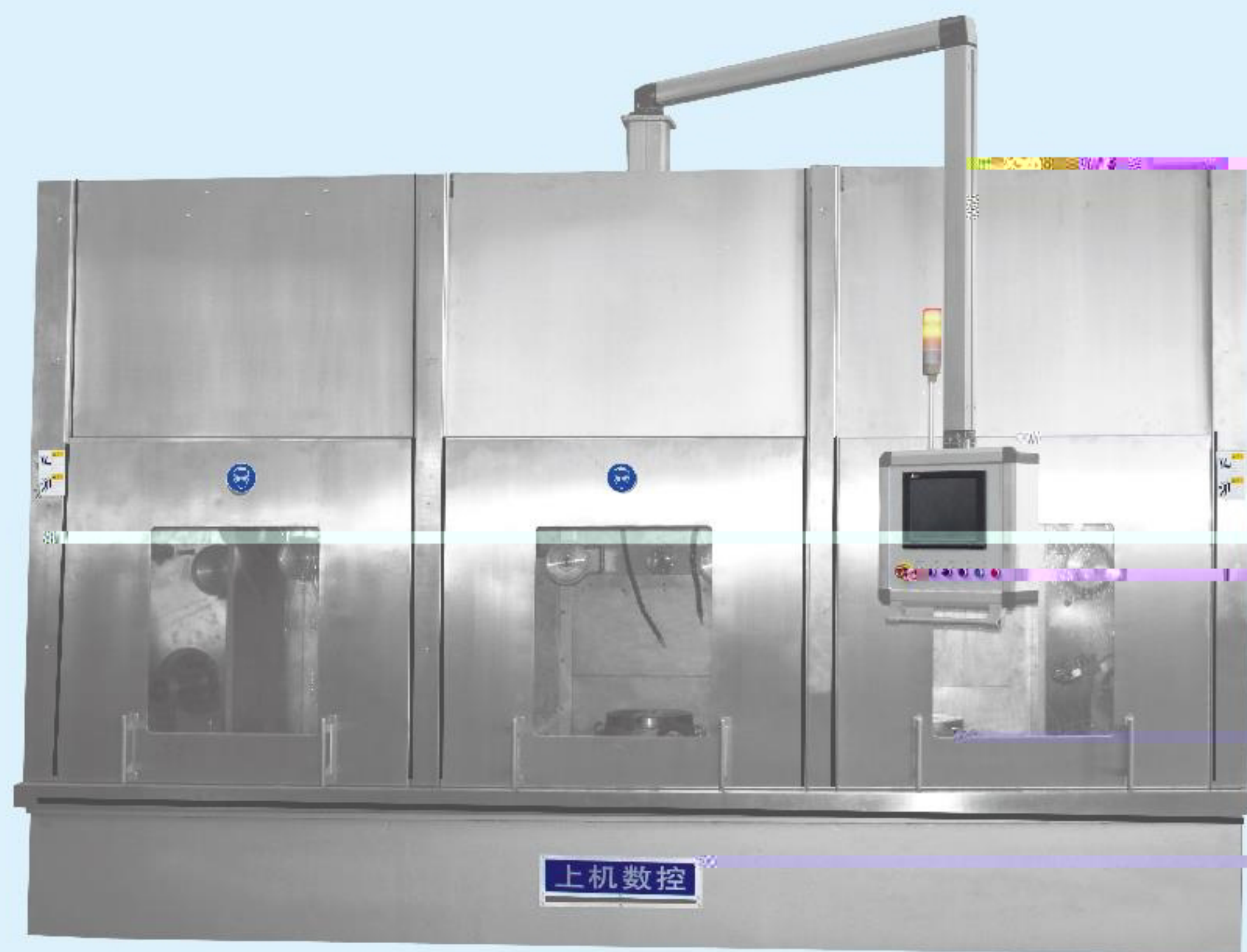


WSK031

数控蓝宝石多工位单线开方机

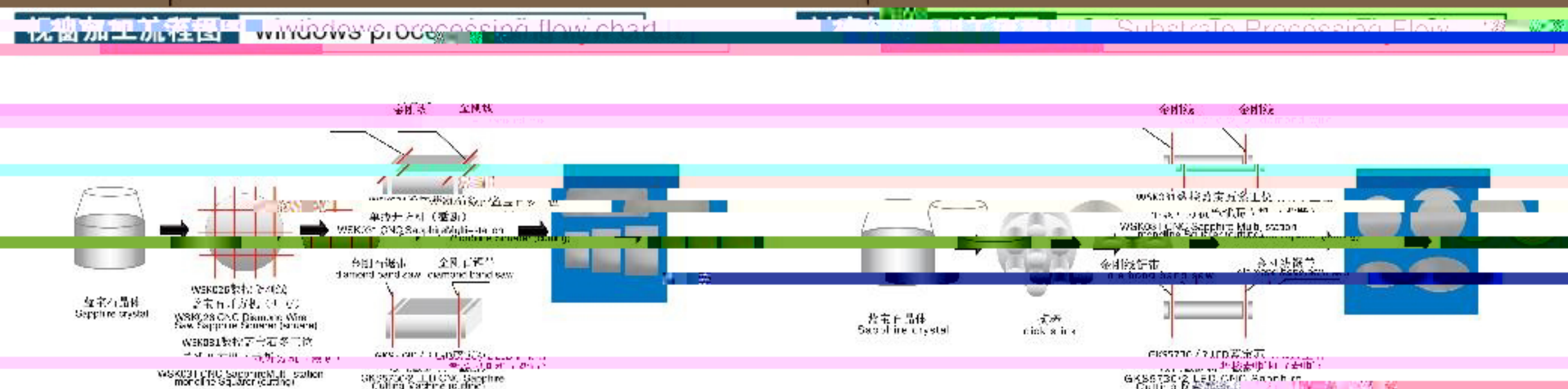
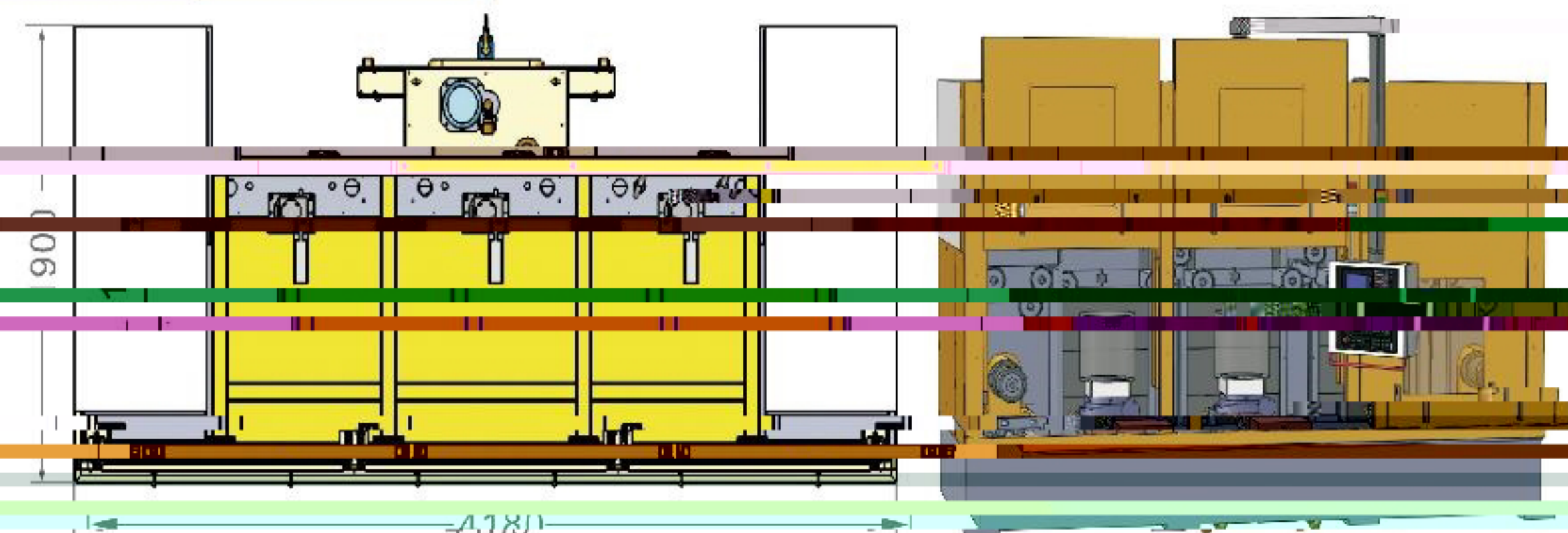
WSK031 CNC Sapphire Multi Station Monoline Squarer



技术规格参数 Specifications and Technical Parameters

加工工件参数 Workpiece parameters	
工件规格 Specifications	Φ500x500mmx3件
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
工件台速 Speed of worktable	
加速度 Acceleration	(max)
线速度 Line speed	20m/s(max)
摇摆角度 Swing angle	+8°
摇摆速度 Swing	2.5次/分
工件晶向 Workpiece crystal orientation	360° + 90°
切割方向 Slicing orientation	前进或后退切割/双向互換切割 forward or backward cutting / way exchange cutting
电源供给及配套设施 Power supply and facilities	
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



机床用途与性能特征

- 本设备为金刚石线单线切割机床，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，操作简单；
- 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；
- 采用一体式收放线时带动三个工位，省去了传统设备使用多线切的旧线夹切；
- 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 Structural Features

- This machine 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, friendly multi-language 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 performance of single sapphire, shorten cutting time, and improve end face quality of ingots, reducing quantity of pulleys. Which decreases consumables, slow down and prolongs service life.
- 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-life as well.
- Optimize tension of control system, by high-tension slicing, ensuring high efficiency and quality.
- 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.