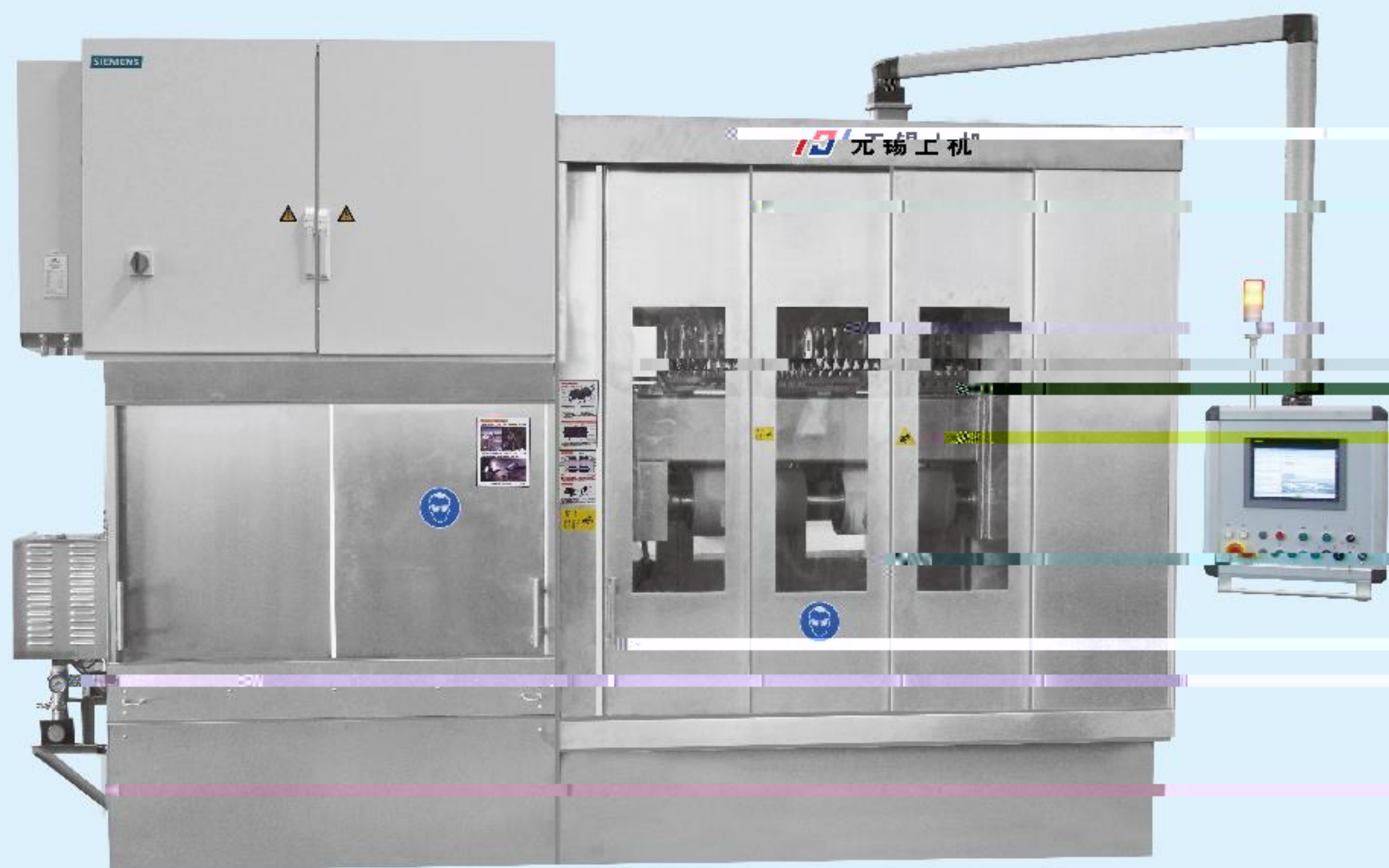


# WSK026

## 数控金刚线蓝宝石开方机

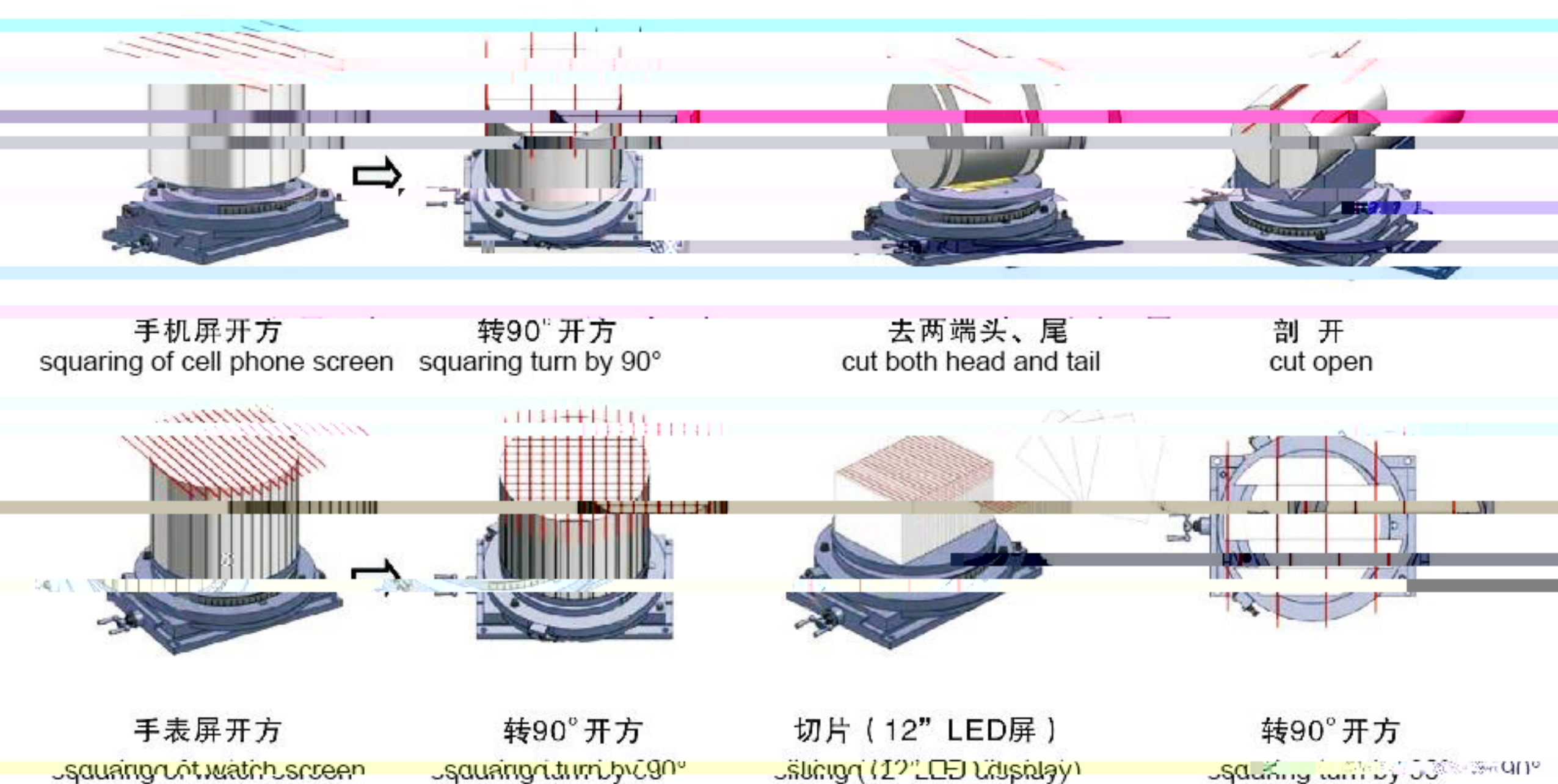
WSK026 CNC cylindrical plain grinding machine for sapphire



### 技术规格参数 Specifications and Technical Parameters

加工工件参数表 Work parameters	
工件规格 Specifications	Φ500x500mm 2件
工件重量 Weight	< 250Kg x 2件
主要参数 Main parameters	
金刚线直径 Diameter of diamond wire	Φ0.20 0.5mm
平行线网数量 Quantity of parallel wire	根据导轮间距定 according to slot pitch of guide wheel
线网间距 Spacing of wheel line	导轮间距 ≥ 28mm; 切片线宽 ≤ 0.5mm
工件转速 Spinning speed	开方 ≤ 3000r/min 切片 ≤ 3000r/min
加速度 Acceleration	5-10m/s <sup>2</sup> (max)
线速度 Wire speed	25m/s (max)
摇摆角度 Swing angle	±8°
摇摆速度 Swing speed	20度/秒 (max)
工件晶向 Work piece crystal orientation	360° + 90°
切割方向 Slicing orientation	前进、后退、切面、切背、切左、切右、切上、切下、切内、切外、切前、切后、切左、切右、切上、切下、切内、切外、切前、切后
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

### 设备切割示意图 Cutting sketch map



- 本设备为金刚线多线开方机，主要用于新能源行业，LED蓝宝石的开方、切视窗片以及半导体行业、LED衬底棒、多晶硅锭的开方，是新能源的主要配套设备。
- 采用西门子控制技术的一体化PC机，15"触控屏；
- 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速度稳定性，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；
- 模块化组合，上下工作台都可进行360°+90°的旋转调节方向，方便切出任意尺寸；
- 通过调整切割轮上的线宽，方便切割各种尺寸的材料；
- 优化张力控制系统，利用高张力切割，保证了开方的质量和效率；
- 利用操作手柄，可以快速布置线网，缩短了设备待机时间，减少人员管理成本；
- 采用双工位，多方位调节晶向，以及灵活的布线配置，可应用于蓝宝石的开方以及切片和截断，切割视窗玻璃等功能。

- This crystal equipment is diamond wire saw squaring machine used in new Energy industry processing LED sapphire, innots, cutting windows, silicon, silicon bar and polycrystalline ingots which is the main equipment for new energy industry.
- Apply integrated PC, SIMENS controling system, 15" touch screen.
- Reasonable layout, high mechanical strength and perfect thermal stability, better appearance appearance appearance 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 consumables such as wire and pulleys.
- The equipment can not only multi-line slice, but also single line slice can be combined as modularization. Both upper and lower worktable can adjust crystal orientation of 360°+90° which can slice whatever size.
- By regulating depth of wire on cutting wheel, slice whatever size of block.
- Optimize tension of control system, by high-tension slicing, ensuring quality and efficiency of squaring.
- Use operating handle, fast layout cable, shortening time of standby and reducing management cost.
- Apply double station and flexible layout configuration, can be used for sapphire squaring, cutting and sectioning, cutting window glass and other functions.

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