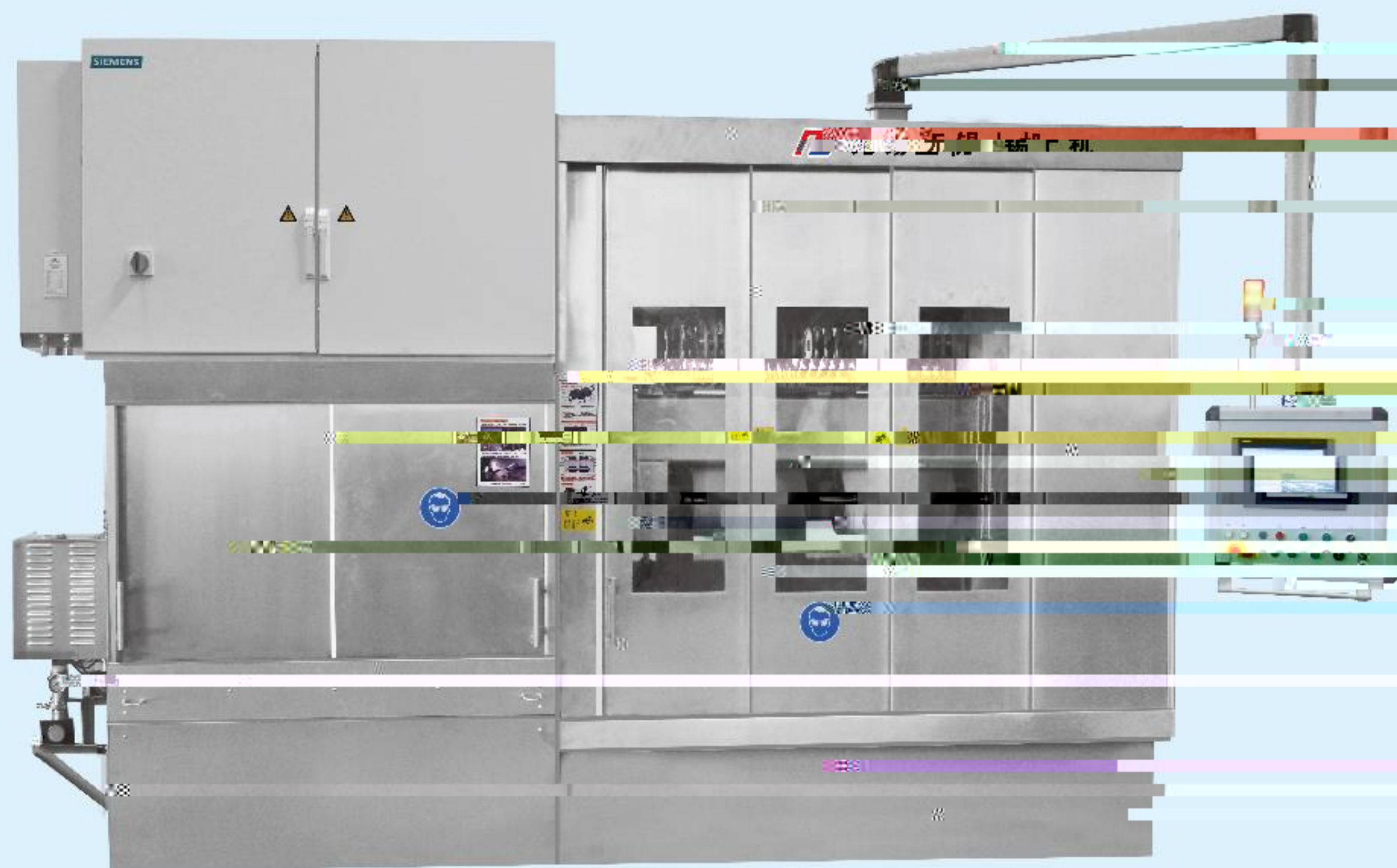


# WSK026

## 数控金刚线蓝宝石开方机

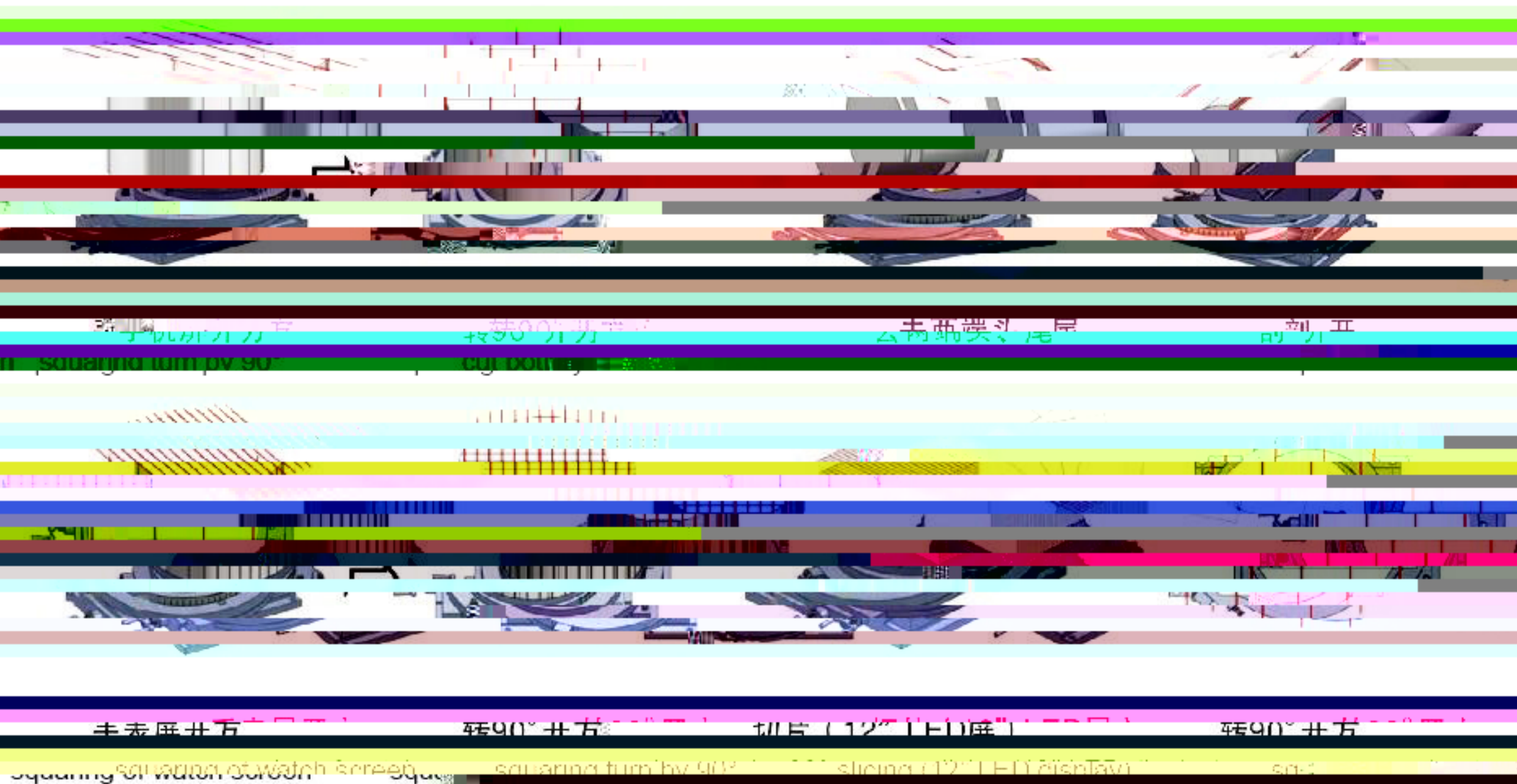
WSK026 CNC cylindrical plain grinding machine for sapphire



### 加工工件参数 Workpiece parameters

工件规格 Workpiece size	Φ500-Φ800 × 3000mm
工件重量 Weight	1250kg (max)
主要参数 Main parameters	
金刚线规格 Wire size	Φ0.08-Φ0.12mm
金刚线速度 Wire speed	根据线径 Wire size dependent
线网间距 Space between wire	开方 square: 0.5~3mm/min 切片 slice: 0.5~1mm/min
工件转速 Speed of worktable	开方 square: 0.5~3mm/min 切片 slice: 0.5~1mm/min
加速度 Acceleration	5 m/s <sup>2</sup> (max)
线速度 Line speed	20 m/s (max)
摇摆角度 Swing angle	±30°
摇摆速度 Swing speed	20度/秒 20°/s (max)
工件朝向 Workpiece crystal orientation	360° ± 90°
切割方向 Slitting orientation	新或旧定厚切割 (双向) 双向切割 forward or backward slice, two way exchange of cutting
电源供给及配套设施 Power supply and auxiliary facilities	
电源要求 Requirement of power	电压 voltage 380V 频率 frequency 50Hz
冷却水流量流量 Cooling water	100L/min
环境温度 Environment temperature	15~35℃

### 设备切割示意图 Slitting schematic diagram



- 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灯棒、多晶硅锭的平方，是新能源的主要配套设备。
- 采用西门子控制技术的机电一体化，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石切割轮的磨损条件，缩短了切割时间，并提高了切割精度，减少消耗轮数量的设计，更有效地降低线耗、降低材料。
- 模块化组合，上下工作台都可进行360°的旋转调整方向，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来料。
- 优化切割参数，提高切割效率，降低切割成本。
- 利用操作手柄，可以快速布置线网，缩短可操作时间，减少人员管理成本。
- 采用双工位，多方位切割，以及双向切割，可应用于蓝宝石的开方以及切片和截切，切割范围更广。

- This equipment is diamond wire saw squarer, applied in New Energy industry, processing LED sapphire ingots, cutting windows and used in semi-conductor industry, LED light bars and polycrystalline silicon ingots, which is the main equipment for new energy industry.
- Apply integrated PLC of SIEMENS controlling system, 15" touch screen.
- Reasonable layout, high mechanical strength and perfect thermal stability. Overall appearance applies full-closed stainless steel design.
- Swing unit optimizes performance of slicing sapphire, shortening time, and improving lead-face quality of ingots, reducing quantity of pulleys, which decreases consumables such as wire and pulleys.
- The equipment can not only cut square, but also slice, and the slice can be cut in any orientation in upper and lower worktables. It can cut any size of workpiece, and the wire width can slice whatever size.
- By requiring get up or wire on cutting wheel, wire width never size of block.
- Optimize to customize tension or control system, high-tension sicino, ensuring quality and efficiency of squaring. Use operating handle, fast layout cable, shortening time of standby and reducing management cost.
- Apply double station, adjust crystal orientation and non-directional fast cutting. Flexible layout and use used in squaring, slicing and cutting.

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