

# 6231

## 双轴半自动切割机

Dual spindle  
automatic  
dicing saw



**GLTECH**  
光力科技

**ADT**  
Advanced Dicing Technologies

6231是一款高精度，高效率的双轴晶圆切割机。最大加工尺寸可达12寸，在同类型机器中占地面积最小。  
6231 dicing saw features a facing dual-spindle that can simultaneously dice wafers at high throughput.  
6231 is a high-precision system that can dice product up to 12" in diameter with high performance.

### 高质量的切割品质 Improved cutting quality

- 透明式设计理念。
- 采用低震动主轴。
- 优化的结构布局将影响切割品质的因素降低到最小。
- Advanced design conception.
- Low vibration spindle.
- Optimized structure is to satisfy cutting performance.

### 自动化辅助软件 Automatic software

- 自动拉直功能。
- 自动刀痕检查功能。
- 根据状态自我调整功能。
- 设备生产数据记录分析功能，设备生产效率分析。
- Auto alignment function.
- Auto kerf check function.
- Self-adjustment function.
- Process data logging and statistical analysis.

### 加工的高适应性 High adaptability of processing

- 根据加工需求，可适配更大功率的主轴。
- High power spindle is also available.

### 操作的便利性 Easy operation

- 采用17英寸触摸屏，切割过程中同时监控机器运行状态。
- 追随式键盘设计，更高效的数据编辑。
- 多点触控设计，更高效的操作。
- 一键式返回主界面设计。
- Full 17" touch screen for alignment, data entry and machine monitoring.
- Flexible keyboard design contributes to data editing efficiently.
- Multi-touch operation can enhance operating performance.
- One-click return to main interface can suit operating habits of mobile users.

### 更小的占地面积 Space saving

- 同类机器中，实现最小的占地面积。
- Small footprint.

# 6231 双轴半自动切割机

## Dual spindle automatic dicing saw

### 规格 Specification

|                                      |                                                                                          |
|--------------------------------------|------------------------------------------------------------------------------------------|
| 机器型号                                 | 6231                                                                                     |
| 工件尺寸                                 | Ø 300 mm 或 300 × 300 (mm)                                                                |
| X轴<br>切割范围<br>进刀速度输入范围               | 310 mm<br>0.1 – 1000 mm/s                                                                |
| Y1/Y2 轴<br>切割范围<br>单步步进量<br>定位精度     | 310 mm<br>0.0001 mm<br>Within 0.003 / 310 mm<br>(Single step accuracy) with 0.002 / 5 mm |
| Z轴<br>最大行程<br>分辨率<br>重复精度            | 30 mm<br>0.0001 mm<br>0.001 mm                                                           |
| θ 轴<br>最大旋转角度                        | 380 deg                                                                                  |
| 主轴<br>主轴类型<br>额定扭矩<br>最高回转速度         | 对向式双主轴<br>0.33 N · m ( 1.8kW )<br>60,000 rpm                                             |
| 动力规格<br>电气<br>空气<br>主轴冷却水流量<br>切割水流量 | 380 V AC ,50/60 Hz, 三相电<br>≥360 L/min<br>4L/min (@0.3 Mpa)<br>≥12L/min                   |
| 刀片尺寸                                 | 2英寸 & 3英寸                                                                                |
| 标准功能                                 | 自动对齐<br>自动刀痕检测                                                                           |
| 用户界面                                 | 触摸屏: 17 英寸<br>图形用户界面 ( GUI )<br>支持多种语言<br>Win10操作系统                                      |
| 可选配件                                 | 残片形状识别功能<br>指定检查位置一键直达<br>大视野的低倍相机                                                       |
| 机器尺寸<br>宽度 × 深度 × 高度<br>重量           | 1,280 × 1,120 × 1,830 (mm)<br>约 1,660 Kg                                                 |
| 环境条件                                 | 室温: 20℃–25℃ ( 波动范围: ±1℃ )<br>湿度: 相对湿度小于70% ( 不冷凝 )<br>切割水或主轴冷却水温度波动范围: ±1℃<br>地面无震动      |

|                                                                        |                                                                                                                                                                                    |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Machine Model                                                          | 6231                                                                                                                                                                               |
| Workpiece Size                                                         | Ø 300 mm or 300 × 300 (mm)                                                                                                                                                         |
| X-Axis<br>Cutting range<br>Cutting speed                               | 310 mm<br>0.1 – 1000 mm/s                                                                                                                                                          |
| Y-Axis<br>Cutting range<br>Index step<br>Indexing positioning accuracy | 310 mm<br>0.0001 mm<br>Within 0.003 / 310 mm<br>(Single step accuracy) with 0.002 / 5 mm                                                                                           |
| Z-Axis<br>Max. stroke<br>Moving resolution<br>Repeatability accuracy   | 30 mm<br>0.0001 mm<br>0.001 mm                                                                                                                                                     |
| θ-Axis<br>Max. rotation angle                                          | 380 deg                                                                                                                                                                            |
| Spindle<br>Type<br>Rated torque<br>Revolution speed range              | Face to Face Dual Spindle<br>0.33 N · m ( 1.8kW )<br>60,000 rpm                                                                                                                    |
| Utilities<br>Electrical<br>Air<br>Spindle Coolant<br>Cutting Water     | 380 V AC ,50/60 Hz, three-phase<br>≥360 L/min<br>4L/min (@0.3 Mpa)<br>≥12L/min                                                                                                     |
| Blade Size                                                             | 2" & 3"                                                                                                                                                                            |
| Standard Features                                                      | Automatic alignment<br>Automatic Kerf check                                                                                                                                        |
| User interface                                                         | Touch screen: 17" monitor<br>GUI (Graphic User Interface)<br>Multilanguage support<br>Win10 OS                                                                                     |
| Options                                                                | Fragment shape recognition function<br>One-click direct access to designated inspection locations<br>Low magnification camera with large field of view                             |
| Dimensions<br>W × D × H<br>Weight                                      | 1,280 × 1,120 × 1,830 (mm)<br>About 1,660 Kg                                                                                                                                       |
| Environmental                                                          | Room Temperature: 20℃ to 25℃ ± 1℃<br>Humidity: Less than 70% relative humidity (non- condensing)<br>Cutting water / Spindle water Temperature ± 1℃<br>Floor must be vibration free |

注: 机器规格如有更改, 恕不另行通知。

Note: Specifications are subject to change without notice.