

# 6110

## 半自动单轴六寸划片机

## 6" Automatic Single Spindle Dicing System

**GLTECH**  
光力科技

**ADT**  
Advanced Dicing Technologies



ADT6110是一款高精度，高性能单轴半自动切割机，机身宽度490mm，占地面积小到极致，结合全新设计的操作系统，提供高效，低使用成本的切割体验。

ADT 6110 Dicing Saw is a high accuracy and high performance semi-automatic machine with single spindle. The width of the machine is only 490mm that make the footprint extremely small. ADT 6110 Dicing Saw provides efficient and low cost cutting experience with a newly designed operating system.

### 规格 Configuration

- 刀片尺寸：2"                      ● Blade Size: 2"
- 最大工件尺寸：6英寸            ● Workpiece Size: 6"

### 操作简易 Easy to operate

- 自动校准，自动切割，刀痕检查均为标准配置功能
- 搭载17英寸大屏幕液晶触摸屏和配置全新开发的GUI操作系统，让操作更便捷高效
- 同时，残片形状识别功能，指定检查位置一键直达等多种选配功能大幅增加操作的便利性
- Automatic alignment & automatic cutting & kerf check are all standard configuration functions
- Equipped with a 17inch large LCD touch screen and a newly developed GUI operating system, making the operation more convenient and efficient
- At the same time, multiple optional functions greatly increase the convenience of operation such as the fragment designated inspection locations

### 多用途 Multiple application

- 标准配置 2.2 kW高转速主轴（扭矩：0.42 N·m，最高回转速度：60,000 rpm）
- $\theta$ 轴采用DD马达驱动，回转精度及回转分辨率高
- 可精密加工晶圆、陶瓷、玻璃、碳化硅等

- The standard configuration is a 2.2 kW high speed spindle ( torque: 0.42 N · m, maximum rotation speed: 60,000 rpm )
- The  $\theta$  axis has the high rotation accuracy and rotation resolution driven by a DD motor
- It can precisely process wafers ceramics, glass, silicon carbide, etc

### 高生产效率 High production efficiency

- 基于对X, Y, Z轴的结构和运动的优化设计，大幅提高生产效率
- The production efficiency is greatly improved based on the optimized desing of structure and movement of the X, Y, and Z axes

### 紧凑设计 Compact desing

- 机身宽度仅为490mm，占地面积小到极致
- The width of the machine is only 490mm that make the footprint extremely small

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### 规格 Specifications

机器型号	6110
工件尺寸	Ø 150 mm
<b>X轴</b> 切割范围 进刀速度输入范围	160 mm 0.1 – 600 mm/s
<b>Y轴</b> 切割范围 单步步进量 单步步进精度 定位精度	162 mm 0.0001 mm ≤ 2µm / 5 mm ≤ 4 µm / 160 mm
<b>Z轴</b> 最大行程 分辨率 重复精度	30 mm 0.0001 mm 0.001 mm
<b>θ轴</b> 最大旋转角度	320 deg
<b>主轴</b> 主轴类型 额定扭矩 最高回转速度	单主轴 0.42 N · m (2.2kW) 60,000 rpm
<b>动力规格</b> 电气 空气 主轴冷却水流量 切割水流量	220 V AC ,50/60 Hz, 单相电 ≥200 L/min (@0.5Mpa) ≥2 L/min (@0.3Mpa) ≥5 L/min (@0.3MPa)
刀片尺寸	2英寸
标准功能	自动对齐 自动刀痕检测
用户界面	触摸屏: 17 英寸 图形用户界面 (GUI) 支持多种语言 Win10操作系统
可选配件	残片形状识别功能 指定检查位置一键直达 大视野的低倍相机
<b>机器尺寸</b> 宽度 × 深度 × 高度 重量	490 mm × 1,100 mm × 1,750 mm 约 450 Kg
<b>环境条件</b>	室温: 20°C–25°C (波动范围: ±1°C) 湿度: 相对湿度小于70% (不冷凝) 切割水或主轴冷却水温度波动范围: ±1°C 地面无震动

Machine Model	6110
Workpiece Size	Ø 150 mm
<b>X-Axis</b> Cutting range Cutting speed	160 mm 0.1 – 600 mm/s
<b>Y-Axis</b> Cutting range Index step Index step accuracy Indexing positioning accuracy	162 mm 0.0001 mm ≤ 2 µm / 5 mm ≤ 4 µm / 160 mm
<b>Z-Axis</b> Max. stroke Moving resolution Repeatability accuracy	30 mm 0.0001 mm 0.001 mm
<b>θ-Axis</b> Max. rotation angle	320 deg
<b>Spindle</b> Type Rated torque Revolution speed range	High speed air floating spindle (2.2kW) 0.42 N · m (2.2kW) 60,000 rpm
<b>Utilities</b> Electrical Air Spindle Coolant Cutting Water	220 V AC ,50/60 Hz, three-phase ≥200 L/min (@0.5Mpa) ≥2 L/min (@0.3Mpa) ≥5 L/min (@0.3MPa)
Blade Size	2"
Standard Features	Automatic alignment Automatic Kerf check
User interface	Touch screens: 17" monitor GUI (Graphic User Interface) Multilanguage support Win10 OS
Options	Fragment shape recognition function One-click direct access to designated inspection locations Low magnification camera with large field of view
<b>Dimensions</b> W × D × H Weight	490 mm × 1,100 mm × 1,750 mm About 450 Kg
Environmental	Room Temperature: 20°C to 25°C ± 1°C Humidity: Less than 70% relative humidity (non-condensing) Cutting water / Spindle water Temperature ± 1°C 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.