

Laser Glass Drilling Machine

AP-GD-02G

Introduction:

The Laser Glass Drilling Machine, equipped with cutting-edge capabilities of laser, beam scanning, motion system, and CCD camera on an ultra-stable platform provides high-precision and high-throughput processes for laser glass drilling. Various geometries and glass materials can be effectively processed by this machine. Unique advantages over conventional machining include no tooling consumption, no water waste, no active maintenance, and low operating cost. Customized machine configurations and processing designs are available to meet customer requirements.

Features:

- Fast processing speed at 45 mm/s for glass thickness 0.5 mm.
- High processing consistency with a yield of 99.5%.
- Excellent edge quality with chipping size <math><100\ \mu\text{m}</math>.
- Maintenance free and industrial design for 24/7 operation.



Specifications subject to change without notice

Main Specifications:

Parameter	Specification
Processing glass thicknesses	≤9 mm / 0.354 inch
Minimum drilling diameter	0.05 mm / 2 mil
Chipping size	≤ 100 μm / 4 mil
Processing speed @ 0.5 mm thick glass	45 mm/s / 1.772 inch/s
Working area	600X400 (mm) / 23.622X 15.748 (inch) (Customizable)
Power supply	AC 208V/50~60Hz
Cooling method	Water cooling
Dimensions	1740X1700X1800 (mm) / 5.71 X 5.58 X 5.91 (ft)

Applications:

Drilling and cutting a variety of glass materials including soda lime, borosilicate, fused silica, sapphire, Low-E glass and color glass; uncoated to coated and ultra-thin to cm-thick. This advanced technology has been used to make parts for many industries such as optoelectronics, flat panel displays, semiconductor, automotive, medical, photovoltaic, consumer electronics, home appliance, and academic research.

Examples:



Quartz glass micromachining



Curved surface glass drilling



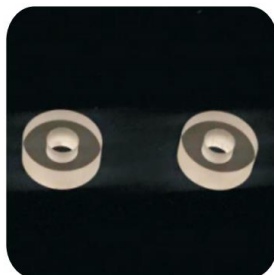
Irregular-shaped holes drilling in thin glass



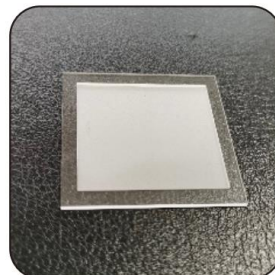
Shape cutting



Hole array micromachining



Concentric circle machining



Rectangular blind groove machining



Irregular cutting of ultra-thin glass

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