

FPC Drilling Machine-Golden Gun-F

High-Throughput, Cost-Effective FPC Micro-Drilling System with HiPA Next-Gen Laser Control Technology.

This advanced high-speed, high-precision equipment is designed for processing various FPC materials, capable of performing:

Micro-via drilling (blind/through vias)

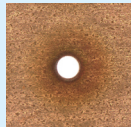
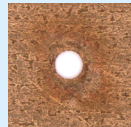
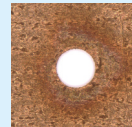
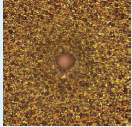
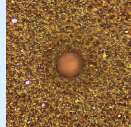
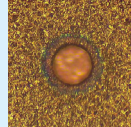
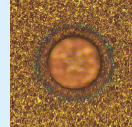
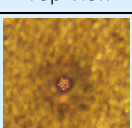
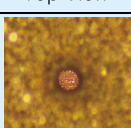
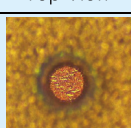
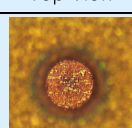
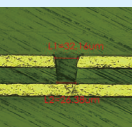
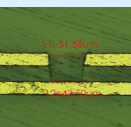
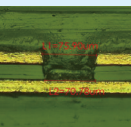
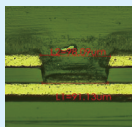
Precision cutting

Solder mask skiving

Contour machining



Product Highlights

Via Diameter (μm)	30	50	75	100
PTH				
BVH				
	Top View	Top View	Top View	Top View
				
	Bottom View	Bottom View	Bottom View	Bottom View
				
	Section View	Section View	Section View	Section View

FPC Drilling

Stable and High-Quality Drilling Results

- ▶ The new generation of HiPA laser control technology ensures precise control of laser parameters during high-speed processing, enhancing drilling quality and accuracy.
- ▶ Real-time laser monitoring and compensation greatly ensure drilling stability.

High Productivity at Low Cost

- ▶ Innovative ultra-fast laser control technology maximizes productivity.
- ▶ High-performance lasers significantly improve drilling efficiency and reduce drilling costs.

Versatile Material Processing

- ▶ Suitable for drilling flexible boards made from various materials such as PI and LCP.
- ▶ Also suitable for processing high-density FPCs.

Standard Equipment Specifications

Overall	MODEL	LDS-FLEX-1000-UV
	Machine Size	1500 mm × 1550 mm ×1860mm
	Weight	2500kg
	Loading/Unloading	RTR、STS
	Energy Consumption	3kW
Laser	Type	UV Nanosecond Laser
	Frequency	40kHz~90kHz
	Power @ work surface	>6.6W @ 40kHz
Laser Control	Stability	< 2.5%+50mW
	Power control	Real-time pulse monitor & compensation system
Stage	Main Stage type	Cross-axis brushless linear motor
	Maximum Stage Speed	1000mm/s
	Repeatability	±1μm
	Panel Size	640mm x 540mm
	Mounting Method	Vacuum Adsorption
	Secondary Stage	Cross-axis galvanometer
	Galvo Scan range	35mm x 35mm
	Tertiary Stage	HSC System
	Motion Mode	IFOV / Stitching
	Z-stage range	>25mm
	Z stage max speed	>10mm/s
CCD Vision	Coarse camera FOV	~ 8.4mm x 7mm
	Fine camera FOV	~ 2mm x 1.7mm
	Illumination	LED ring light + Coaxial light
Software	System	Windows 10
	Operation software	JPT Self-developed software
	File format	DXF, DWG, DRL, GBR, BAS and other common CAD formats
Performance	Accuracy	±20μm over full panel
	Holes Diamiter	>25μm
	Hole circularity	>95%
	Hole taper	>85% @ 75μm
	High throughput	>200/s @ 75μm

*Support customization