**FPC Laser Cutting Machine**

## Series Introduction

With years of industrial application for PCB processing, HGLASER specializes in integrating laser marking and cutting tech into the PCB production lines.

**FPC laser cutting machines** adopt high-performance cold laser source, perfectly achieving the board shape cutting, contour cutting, drilling and cover film cutting and other ultra-fine processing.  The equipment is mainly used in precision cutting and marking for flexible circuit boards, rigid circuit boards, rigid-flexible circuit boards .

Adopted with high-performance UV laser cold light source, high-precision CCD image positioning technology and self-developed visual laser control software, the Flexible PCB laser cutting machine from HGLASER perfectly implements contour cutting, drilling and marking of FPC and PCB, and precision processing of composite membrane.

**FPC Flexible PCB Laser Cutting Machine**

Adopted with high-performance UV laser cold light source, high-precision CCD image positioning technology and self-developed visual laser control software, the FPC flexible PCB laser cutting machine of HGLASER perfectly implements contour cutting, drilling of FPC and PCB, and precision processing of composite membrane.

● Without models, one-step forming, save a lot of costs;

● Precision two-dimensional worktable and full closed-loop CNC system ensure the high precision of micron dimension;

● Position sensor and CCD image positioning technology;

● Automatic positioning and focusing system produce high efficiency.

FPC Laser Cutting Machines are used for processing of FPC, PCB, rigid-flex board, FR4 and cover film ,etc.

**FPC Flexible PCB Laser Cutting Machine**

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| Laser | Laser Source | 355 nm UV |
| Power | 10 W |
| Coaxial Video Positioning | B/W CCD |
| Scan Range | 60×60 mm |
| Focused Spot Diameter | <20 um (UV Laser) |
| Auto Focus System | Z axis auto focus |
| Focus Control Precision | 0.01 mm |
| Main structure configuration | X-Y Working Platform | Ac servo motor |
| Base | High-precision granite platform |
| Travel Range | 300×400 (Optional size range) |
| Platform Motion Resolution | 0.5 um |
| Overall Control System | IPC |
| Assisted Control System | Mitsubishi PLC |
| CCD Lighting Source | 620 nm red light LED |
| External Auxiliary Device | Negative pressure air blower, dusting system |
| Processing Characteristics | Processing Size Range | 360×460 mm |
| Min Linear Width | 20 um |
| Stitching Accuracy | ±5 um |
| Scanning Head Correction Accuracy | ±5 um |
| X-Y Table Correction Accuracy | ±4 um |
| CCD Matching Accuracy | 7 μm |
| Processing Accuracy | ±4 micrometers |
| Processing Thickness | <1 mm |
| Environmental Conditions | Power Supply | AC 220V±10%,50HZ,1P,3KVA |
| Fixture | Customize to the needs |
| Document Format | DXF, GBR, etc. |
| Environment Temperature | 15-30°(constant temperature for high precision) |
| Environment Humidity | <50% |
| Weight | 1500KG |
| Mainframe Size | 1350mm(W) ×1050mm(D) ×1950(H) |