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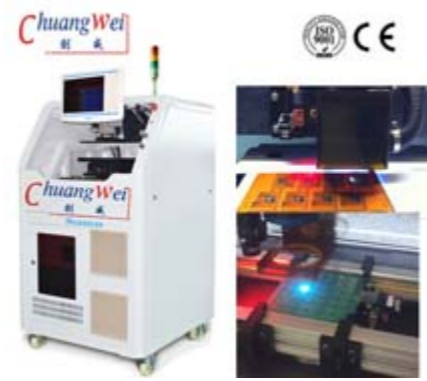
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### UV Fpc Laser Cutting Machine,PCB Laser Depaneling Services,CWVC-6

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Product description: UV Fpc Laser Cutting Machine,PCB Laser Depaneling Services,CWVC-6

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#### High Accuracy FPC / Rigid - Flex PCB Laser Depaneling Machine,CWVC-6 Description:

**Product Name:** Laser Pcb Separator **Super:** Low Power Consumption.

**Laser:** 12/15/17W **Laser Brand:** Optowave

**Power:** 220V 380v **Warranty:** 1 Year

#### Advantages of Laser Fpc Cutting/singulation:

No mechanical stress on substrates or circuits

No tooling cost or consumables.

Versatility – ability to change applications by simply changing settings

Fiducial Recognition – more precise and clean cut

Optical Recognition before PCB depaneling/singulation process begins.

Ability to depanel virtually any substrate. (Rogers, FR4, ChemA, Teflon, ceramics, aluminum, brass, copper, etc)

Extraordinary cut quality holding tolerances as small as < 50 microns.

No design limitation – ability to cut virtually and size PCB board including complex contours and multidimensional boards

#### Challenges of Depaneling using Routing/Die Cutting/Dicing Saws:

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- Damages and fractures to substrates and circuits due to mechanical stress
- Damages to PCB due to accumulated debris
- Constant need for new bits, custom dies, and blades
- Lack of versatility – each new application requires ordering of custom tools, blades, and dies
- Not good for high precision, multi-dimensional or complicated cuts
- Not useful PCB depaneling/singulation smaller boards

Lasers, on the other hand, are gaining control of the PCB depaneling/singulation market due to higher precision, lower stress on the parts, and higher throughput. Laser depaneling can be applied to a variety of applications with a simple change in settings. There is no bit or blade sharpening, lead time reordering dies and parts, or cracked/broken edges due to torque on the substrate. Application of lasers in PCB depaneling is dynamic and a non-contact process.

## CONTACT US

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### PCB (printed circuit board) Depaneling using UV Laser,CWVC-6 Specification:

Laser	Q-Switched diode-pumped all solid-state UV laser
Laser Wavelength	355nm
Laser Power	10W/12W/15W/17W@30KHz
Positioning Precision of Worktable of Linear Motor	±2µm
Repetition Precision of Worktable of Linear Motor	±1µm
Effective Working Field	460mmX460mm(Customizable)
Laser Scanning Speed	2500mm/s (max)
Galvanometer Working Field Per One Process	40mmx40mm

Laser class	1
Max. working area (X x Y x Z)	300 mm x 300 mm x 11 mm
Max. recognition area (X x Y)	300 mm x 300 mm
Max. material size (X x Y)	350 mm x 350 mm
Data input formats	Gerber, X-Gerber, DXF, HPGL,
Max. structuring speed	Depends on application
Positioning accuracy	± 25 µm (1 Mil)
Diameter of focused laser beam	20 µm (0.8 Mil)
Laser wavelength	355 nm

System dimensions (W x H x D)	1000mm*940mm *1520 mm
Weight	~ 450 kg (990 lbs)
Power supply	230 VAC, 50-60 Hz, 3 kVA
Cooling	Air-cooled (internal water-air cooling)
Ambient temperature	22 °C ± 2 °C @ ± 25 µm / 22 °C ± 6 °C @ ± 50 µm (71.6 °F ± 3.6 °F @ 1 Mil / 71.6 °F ± 10.8 °F @ 2 Mil)
Humidity	< 60 % (non-condensing)
Required accessoires	Exhaust unit

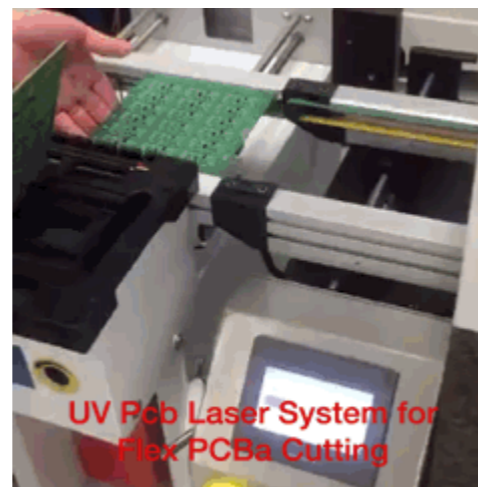
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**PCB Laser Depaneling Machine with UV Laser,CWVC-6 Cutting Application:**

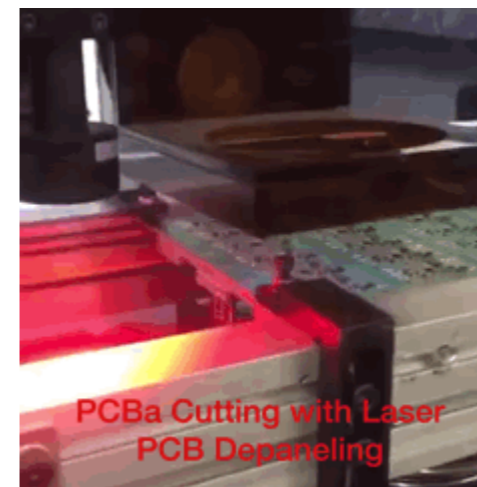
FPC and some relative materials;

FPC/PCB/ Rigid-Flex PCB cutting, Camera module cutting.

**PCBa Cutting by Using UV Laser Pcb Separator Machine Sample Video:**



UV Fcb Laser System for Flex PCBa Cutting



PCBa Cutting with Laser PCB Depaneling

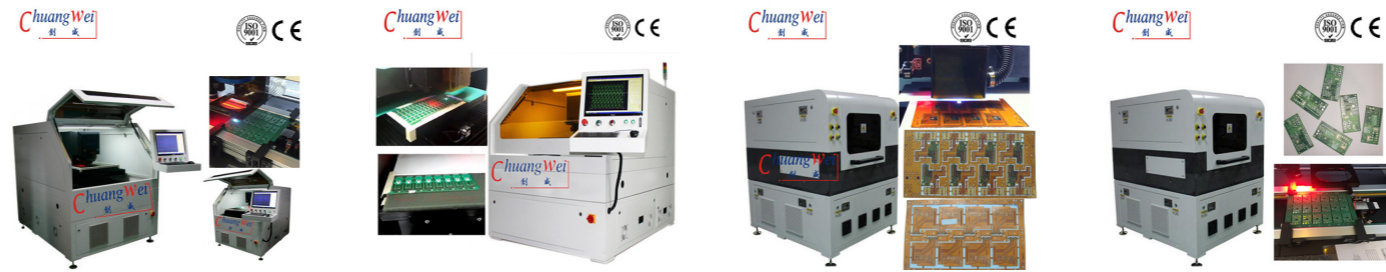
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