# Laser Depaneling Systems for PCBs

# **High-Precision Laser Cutting Solutions**

CMS Laser has successfully developed two types of laser depaneling systems that included an in-line conveyor and a semi-automatic manual load system. Either design can be integrated with a CO2 or UV laser head depending on application requirements. Both designs include an integrated vision system, are CDRH Class 1 compliant, and use the CMS Programmable Process Engine software application.

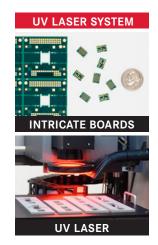
CMS Laser has been an industry innovator in high speed CO2 laser singulation and clean precise UV depaneling. Our 35-years of developing cutting solutions for PCBs makes us the best choice for your depaneling needs. Contact us today to learn more about our laser systems for PCBs.

### SYSTEM FEATURES

- CDRH Class 1 laser cutting system
- CO2 or UV Laser source depending on applications lab results
- Depanel boards up to 20" x 18"
- Automatic board entrance/exit slots with safety interlocks
- Standalone or SMT line integration
- Welded steel frame with aluminum paneling
- Windows® operating system with CMS Laser HMI software









## **Advantages**

- No mechanical stress on substrates or circuits
- Versatility Ability to change applications by simply changing settings
- Fiducial recognition for more precise cuts
- Optical recognition before depaneling process begins
- Cut quality holding tolerances as small as < 50 microns
- No design limitations
- Design with or without conveyor system for inline or standalone operation

## **Overcoming Traditional Methods**

Laser depaneling systems overcome traditional methods by offering greater precision, speed, accuracy, and elminating mechanical stress to the PCB—resulting in high throughput.

# **Clean & Precise Cutting**

Lasers make clean, burr-free and precise cuts against the edge of circuits and other important components—improving overall design flexibility without damaging the substrate. Because you don't have to reorder parts or sharpen bits and blades, laser systems are almost more cost effective.

# **Optical Recognition**

Our PCB depaneling solutions utilize machine vision for optical recognition of board fiducials. If your panel isn't set correctly, this feature will stop the program from starting until the correction is made—reducing downtime, improving product quality and lowering your overall costs.

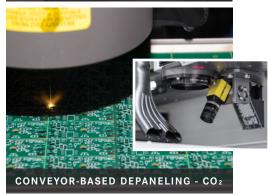




### **UV LASER DEPANELER**

Manual Load/Unload Through Optics Vision System







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CMS Laser follows a policy of continuous product improvement. Specifications and system design are subject to change without notice.



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