

▶ STATE OF THE ART POST ETCH PUNCH

The most accurate feature rich post etch punch available for PCB manufactures seeking a competitive advantage.

The PPS-8800 Post Etch Punch punches tooling slots precisely aligned with the best fit center of each inner-layer. Inner-layers that do not meet scale and front to back registration specifications are not punched.

The system incorporates precision fixed tooling and a unique motion system to achieve unmatched accuracy. At time of order, customers may specify the punch and target locations they desire. Operators can easily change between panel sizes using a simple graphic interface. Manual, Semi-manual or automatically loaded high speed versions are available.

▶ Most customers find that the 8 camera inspection results drive yield improvements that generate dramatic payback .

▶ SPECIFICATIONS

Best Fit Punching Repeatability: 5 Micron (same panel punched 10 times, maximum deviation)

Throughput: 4 -6 Panels per minute

X-Y Motion Repeatability: 1.2 Micron

Machine Vision Target Finding Repeatability: 1.2 Micron

Maximum Panel Thickness: 1.5mm

Powerful Non-Contrast Based Machine Vision Target Finder

▶ PPS-8800 Post Etch Punch

▶ TARGET CUSTOMERS

For manufactures of High Technology Printed Circuit Boards requiring:

- Sub 2 mil annular ring
- High Yield after Lamination
- High Layer Count
- Sub-laminations with blind and buried vias

▶ KEY FEATURES

- 5 Micron Punching Repeatability
- 100% Inspection of Scaling and Front to Back Registration of Each Inner-layer Catches Errors Before Lamination
- 8 Camera "Best Fit" Optimization of Registration Over Entire Innerlayer
- Minimize Effect of Nonrepeatable Material Growth/Shrinkage in Both X and Y Directions
- 100% Inspection with Online Process Control Statistics

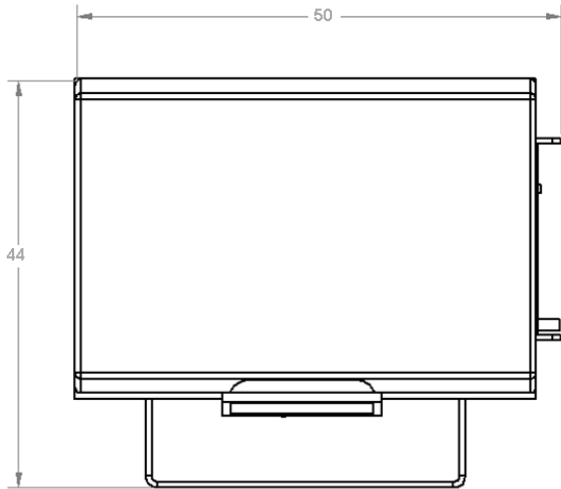


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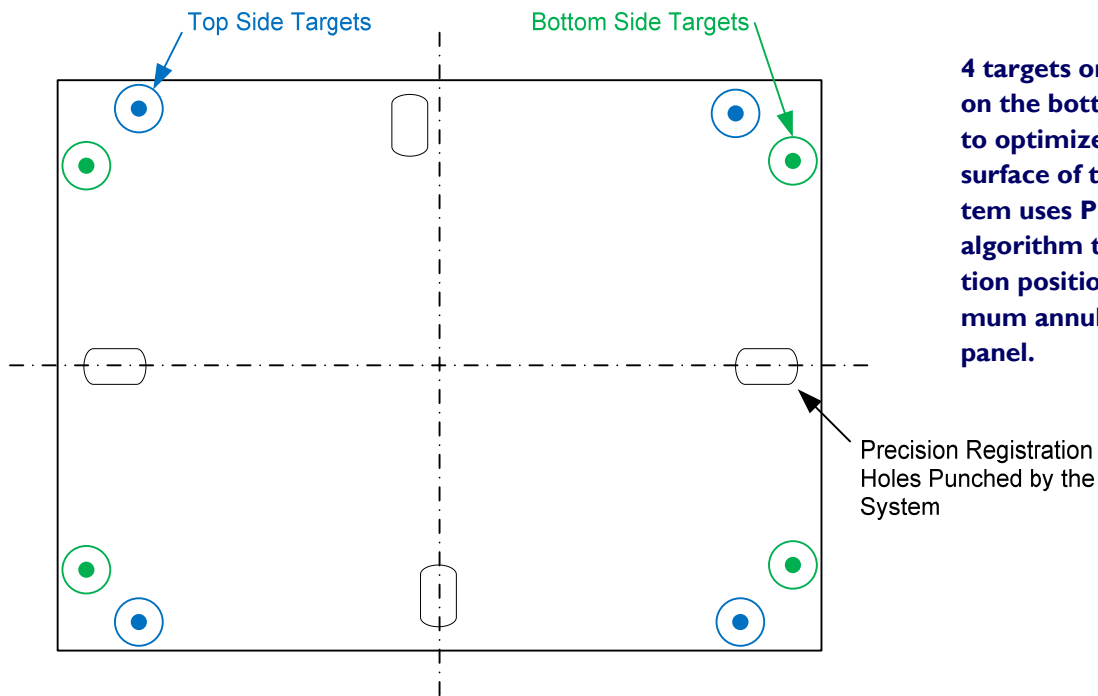
Phone: 763-557-9348
Fax: 800-483-2208
E-mail: willard.raymond@prototypesys.com
www.prototypesys.com

Prototype and Production Systems
13860 Industrial Park Blvd
Plymouth, MN 55441 USA

▶ PPS-8800 Post Etch Punch



TOP VIEW



TYPICAL PANEL LAYOUT

4 targets on the top side and 4 targets on the bottom side allow the system to optimize alignment over the entire surface of the inner-layer. The system uses PPSI's patented "Best Fit" algorithm to calculate the registration position that results in the maximum annular ring over the entire panel.



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