Credence Engineering Inc
Advanced LTCC Process Equipment

MS-1000 Alignment Measurement System

MS-1000

The MS-1000 Alignment Measurement System from Credence Engineering Inc. eliminates the need for artwork as the "Last Word" in alignment when it comes to qualifying your via punching systems. Fitted with a Glass Reticle "Standard" which is mounted into a heat-treated steel frame with tungsten carbide pins to match your registration pattern, the alignment standard provides both the correction capability for the measurement system itself as well as the accuracy and confidence to replace your artwork as the accuracy comparison used in production. Fitted with a high magnification camera and user-friendly software the MS-1000 will verify each of your via punching systems and provide a detailed report as well as a graphical picture of the accuracy and repeatability of each system complete with Cpk, Std Dev, Mean, Range and others. Creative programs punched on your via punching systems can be used to diagnose things like Axis straightness errors, X to Y orthogonal errors, XY to punch head alignment.

The MS-1000 also will evaluate your printing process alignment and provide upload data to automatically align up to four printers. Fiducials will have to be added to your screen exposure artwork or programs and that image file entered into the MS-1000. The on-board vision system can easily learn a variety of Fiducials, and via sizes to provide the flexibility needed in any production facility today. Contact Credence Engineering Incorporated to learn more about the MS-1000.

Specifications and Components

- Various tape size capable (consult Factory)
- Alignment "Standard" built to your Registration pattern.
- Center Granite Block for system stability
- Up to 100X magnification depending on size range of vias and fiducials.

- Maximum Tape size 10"X10"
- System Self Calibration Accuracy ±.00025"
- 110/240 VAC, 50/60 Cycle, 15/7.5A
- On-Board Ink-Jet Printer for report printing.
- PC based system with Windows 7
- 800 lbs
- Delivery 20 weeks ARP

Included	Options (Consult Factory)
• 12' of electrical hookup cord	•