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NEW PRODUCT RELEASE:

SE 300 is an economical 3D solder paste inspection system capable of performing 100% inspection at production line speeds.

Installed in-line after the screen printer, SE 300 automatically measures height, volume and area at speeds up to 2.3 sq in/sec (14.8 sq cm/sec). High-resolution mode for smaller components such as CSP's and 0402's inspects at 1.5 sq in/sec (9.6 sq cm/sec).

High Speed, 100% Solder Paste Inspection

Minneapolis, Minnesota... SE 300™ from CyberOptics is a high-speed, high-resolution 3D solder paste inspection system capable of performing 100% inspection at production line speeds. SE 300 is available for under \$200,000 making it the industry's most affordable 100% inspection system, with a typical payback period of less than a year.

SE 300 automatically locates fiducials and measures paste height, volume and area on 100% of the board. The system notifies the operator if any parameters begin trending outside the user-specified limits. Measurement repeatability and reproducibility meet the strictest standards, with gage R&R for QFP's, BGA's and CSP's less than 10% of typical process tolerances.

For maximum flexibility, the user has a choice of two operating modes. High-speed mode, designed for fine-pitch QFP's and other traditional components, inspects 2.3 sq in/sec (14.8 sq cm/sec). High-resolution mode, used for inspecting newer, smaller components such as CSP's and 0402 discretes, inspects at about 1.5 sq in/sec (9.6 sq cm/sec). For optimum results both speeds can be combined in the same inspection program.

SE 300 was designed to replace a section of standard conveyor in front of the chip-shooter feeders. The built-in, adjustable conveyor transports boards up to 18 x 20 in (457 x 508 mm) and secures them for inspection. For maximum stability and minimal vibration, the machine rests on a heavy cast polymer base. The ergonomically-designed keyboard and flat panel display are fully adjustable.

Programming can be performed off-line. Optional software is offered for Gerber input programming and for SPC (statistical process control). A NIST-certified calibration standard is available for self-certification.

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