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### Modular Chip Shooter

Part of a modular automated assembly concept, the KE-2050 high-speed chip shooter acts as the base of a flexible placement line designed to place devices with low assembly cost. The multi-nozzle laser head design allows four parts to be picked simultaneously and placed in sequence. Component size placement ranges from 0201s to 26.5 x 11 mm or 20 mm sq. The multi-nozzle laser head with four nozzles provides placement speeds of up to 13,200 chips per hour. The one-piece machine frame delivers an increase in axis speed while minimizing overall machine vibration.

*Juki Automation Systems, Morrisville, NC*  
**Booth 2613**

### ESD Wipes

ACL Mat & Table Top Wipes quickly clean and restore electrostatic discharge (ESD) mats and workstations in one step. They are pre-moistened and ready to use—just wipe and toss. The wipes leave no film and effectively remove flux oil, finger marks, surface grease, nicotine, dirt, grime and inorganic contaminants.

*ACL Staticide, Elk Grove Village, IL*  
**Booth 2603**

### Soldering System



The PS-800 soldering system is designed for repetitive manual assembly and touch-up. The system uses heater tips rather than cartridges. The two-piece design separates the heater coil from the tip, which is easily removed and replaced. The system delivers industry-standard thermal performance with a compact power supply and features variable power temperature control that requires no calibration.

*Metcal, a division of OK International, Menlo Park, CA*  
**Booth 2605**

### Bench Top Cable Tester

The Signature 1100H+ hipot cable tester features a large display with a simple, menu-driven user interface. Capable of hipot testing up to 1000VDC, the tester is ideal for testing cables, harnesses and other wiring assemblies up to 1024 points. It performs a complete check for opens, shorts, mis-wires, high-resistance errors, insulation resistance problems and dielectric withstanding (arcing). It also tests resistors, capacitors and diodes for proper value and polarity. The tester self-learns the interconnection pattern of a sample cable. Additional cables are then tested as fast as you can plug and unplug them. Test results are given both audibly and visually, and a bright LED provides pass/fail verification.

*Cirris Systems Corp., Salt Lake City, UT*  
**Booth 2711**

### X-Ray Inspection System



The TIGER (FXS-160.40) x-ray system now offers proprietary True X-Ray Intensity (TXI) control to assist operators in identifying production anomalies with consistent x-ray images. Unlike conventional techniques for maintaining image consistency that control the input level of high-voltage and x-ray tube current, TXI automatically controls the output level of x-ray intensity during the image acquisition process, producing stable, permanent image quality. It also provides steady x-ray intensity after auto-start; long-term stability of x-ray intensity; and constant image contrast and brightness for recurring inspection tasks.

*FEINFOCUS, Stamford, CT*  
**Booth 2702**

### Hand-Held Video Microscope

The HD-5000 hand-held video microscope is a portable, high-resolution inspection system that observes and records small objects. Its lightweight (one pound) scope is easily positioned and re-positioned, giving the operator flexibility not available from stand-mounted cameras. The microscope has switchable 20 or 50X magnification, providing real-time images to any video monitor. An easily accessible button permits any image to be captured for further evaluation. With an optional image capture kit, it allows the creation of .jpg or .bmp images for presentations or Web use. A USB PC interface kit is also available. Lighting for the 1/4 in. CCD camera is provided by built-in white LEDs.

*ASG, a division of Jergens Inc., Cleveland, OH*  
**Booth 2633**

### Surface-Mount/BGA Rework System



The ONYX29 ball grid array (BGA)/surface-mount rework system includes: seven motorized axes—including motorized-field-of-view; alignment of 01005 to 75 mm devices; 19 x 19 in. laser-etched multi-zone preheater; a 2000-watt top heater that is lead-free capable; fully automated non-contact site-cleaning; multi position pick; and placement with 10 micron accuracy.

*Air-Vac Engineering Co. Inc., Seymour, CT*  
**Booth 2637**

### Horizontal Depaneler

The VPD5 depaneling machine is designed to separate circuit boards from pre-scored panels without stress. The machine is a pneumatically operated shear with two wedge-shaped knives that shear panels with a gentle rocking motion as the knives penetrate the score line. It allows for stress-free board separation with components as close as 0.5 mm from the score line, including ceramic capacitors. The machine is also safe when used on boards as thin as 0.032 in. The machine can make single cuts on panels up to 13 in. in length without bending. The knives separate boards with tall components near the score line, up to 1 in. from the top of the board. The operator can only insert the panel into the machine along the score line, making it impossible to damage the boards.

*Fancort Industries Inc., West Caldwell, NJ*

**Booth 2640**

### Water-Based Flux Remover

VIGON A 300 is a water-based cleaning agent using patent-pending MPC technology. It operates effectively at room temperature and is able to clean hard-to-remove flux residues. The technology provides the user with a cost effective cleaning process and can be used in high and medium pressure spray equipment, such as in-line and batch cleaners.

*Zestron, Ashburn, VA*

**Booth 2523**

### Lead-Free Cleaning/Defluxing System

The SMT1000-LF aqueous cleaning/defluxing system is designed specifically for post-reflow lead-free defluxing applications. To overcome the cleaning challenges presented with a lead-free process, the system is equipped with an ultra-high-performance stainless steel nine-stage wash pump, producing in excess of 100 PSI. The system's four-sided rinse section is powered by a high-performance stainless steel pump, completely segregated from the wash section that prevents cross contamination and decreases overall operating costs.

*Aqueous Technologies, Rancho Cucamonga, CA*

**Booth 2501**

### Lead-Free Rework System

The Compact Rework System (CRS) handles the complexities of lead-free rework using an advanced automated place and lift-off. Lead-free rework requires higher reflow temperatures and excellent temperature uniformity across the package. Due to the reduced wetting of lead-free solder paste, the component must be placed more accurately prior to reflow. The system resolves these application challenges with a new level of automation.

*Finetech Inc., Phoenix, AZ*

**Booth 2801**

### Horizontal Convection Oven

The GF-120HC reflow oven can be used for standard or lead-free reflow soldering. With horizontal convection, air is circulated horizontally in one direction across the top of the board and in the opposite direction beneath the board, preventing hot spots and providing consistent air temperature, pressure, velocity, volume and direction across the board. Because air is not reheated in a separate plenum, fume condensation is eliminated; no costly flux management systems are needed.

*Automated Production Systems Inc., Huntingdon Valley, PA*

**Booth 2424**

