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Thermal Compound Application System

The Thermal Compound Application Technology (T-CAT) system uses electrostatic discharge (ESD)-safe nesting to secure components for the application of the thermal compounds. The stencils isolate the component's leads, making it hard to contaminate them, and are designed to hold numerous components of various sizes. The system is built around a self-registering tabletop printer to ensure proper alignment. Laser cut stencils with formed walls isolate the leads from the body of the components where the thermal compound is to be applied. Each component is cradled in a custom relief, engineered from an ESD-safe foam base. Once in place, a stainless steel squeegee spreads the compound on each component. *Integrated Ideas and Technologies Inc., Coeur d'Alene, ID*
www.integratedideas.com

Inspection and Defect Review Software

The ProcessNavigator for Inspection (PNI) suite is a range of software applications and components targeting defect inspection equipment suppliers and manufacturing facilities using defect inspection. The software encompasses requirements from leading manufacturing facilities including: 2-D and 3-D wafermaps and charting, advanced data analysis, dynamic data controls, sortable lists, and galleries for images and wafermaps. *Excelerate Technologies, Natick, MA*
www.exceleratetech.net

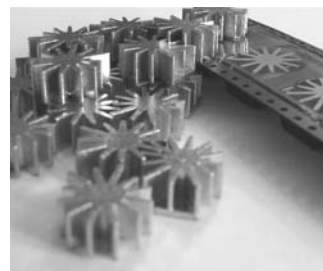
Upright Workstation

The Ergomation 1-2-1 Universal Upright System has height-adjustable frames and a mobile trolley. Providing vertical organization and structural support, the systems can be customized to meet specific needs and are offered in simple single- and double-bay freestanding workstations or complex in-line configurations. The systems come in a variety of heights, widths and depths. A range of work surfaces and accessories are available. *Lista International Corp., Holliston, MA*
www.listaintl.com

Lead-Free Heatsink

The PL-001-01-XX-0400-32 surface-mount technology heatsink for Dpac and D2pac is now available in a lead-free version. The product is based on technology that designs, simulates, produces and tapes special mechanical parts for surface-mount technology, such as heatsinks, mechanical fixing systems and high current electrical connections for standard and custom applications. The heatsink is based on a special copper alloy with a solderable surface. It is shipped in tape and reel (32 mm), weighs 4 grams and is 6.5 mm high. It is mountable with standard pick-and-place machines using standard nozzles.

placeiT, Forlimpopoli, Italy
www.placeit-smt.com



Lead-Free Reflow Oven

The RO300FC full convection reflow oven, designed for high temperature soldering of sensitive electronics, is ideal for lead-free soldering. The convection heating enables high throughput with a small footprint and homogeneous heat distribution over the complete soldering range. Due to the individual regulation of each heating zone, all types of temperature profiles can be designed and the processes are reproducible. For simple setup, the oven has preset standard profiles for surface-mount applications. The control also offers enough memory to program customized temperature profiles. *ESSEMTEC USA LLC, Glasboro, NJ*
www.essemtec.com



Surface-Mount Placement Machine

The C5 is a medium speed, fully flexible surface-mount technology placement machine. With Cognex vision processing, it can place components from 0201s to 50 mm sq. The machine has a small footprint and feeder capacity for 192 feeders. By locating the placement area at the end of the machine rather than in the middle, all feeders are positioned on one side of the line. If used as a stand alone machine, boards can be manually loaded into its unobstructed placement area. Up to four matrix trays can be mounted between the feeder banks without loss of feeder capacity. *Contact Systems Inc., Danbury, CT*
www.contactsystems.com



Spray Coating System

Prism Ultra-Coat programmable spray coating system is designed to precisely apply fluxes, conformal coatings or conductive inks. It features ultrasonic spray technology providing accurate thin coatings. The nozzle-less spray technology with integrated liquid delivery system (ILDS) employs ultrasonic energy to produce the spray with a directed air stream to focus the pattern. The platform is available with a variety of ultrasonic spray heads. The system uses precision ball screws, closed-loop servo drives and a Windows XP operating system. *Ultrasonic Systems Inc., Haverhill, MA*
www.ultraspray.com

