

MPM | Camalot | Electrovert Vitronics Soltec | Despatch



Together we are meeting increasing demands of automotive and smart device manufacturers

With the exponential growth of electronics in cars, smart phones and homes, manufacturers are demanding improvements in throughput, yield and performance. Miniaturization and other technical challenges require continuous advancement in manufacturing equipment. ITW EAE brings together the world-leading brands of electronics assembly equipment. Brands with reputations for advancing process perfection. The combined knowledge and experience of the ITW EAE group is driving further innovation and speeding the development of next generation technology.

Electronic Assembly Equipment

ITW EAE

See our latest developments at Productronica Hall A4, Booth 554, November 14-17

There will be a special focus on equipment for manufacturing automotive electronics featuring PCB printing, dispensing and soldering solutions that meet the increasing throughput, yield and performance demands from this market. Solutions to the challenges of fine pitch printing and component miniaturization are also addressed. The MPM Edison printer is optimized for fine pitch printing. With parallel processing it achieves an extremely fast 15 second total cycle time including printing and stencil wipe and has built-in $\pm 8\mu$ alignment, and $\pm 15\mu$ wet print repeatability. The Vitronics Soltec ZEVA Selective Soldering system is the leading provider of high-volume dip soldering to the automotive market.

While we are highlighting our differentiated solutions for the automotive market, we are also excited to share our solutions to the world's leading EMS and Smartphone providers. Miniaturization continues to demand enhancements in speed and precision, and we are excited to showcase our capabilities in these areas. We also welcome the opportunity to continue our discussions with leading manufacturers on Industry 4.0 and the collective advantages these capabilities can bring in preventive maintenance, yield improvements, overall equipment effectiveness, and the trend towards lights out factories.

Dynamic Dual Head™ (DDH) offers the unique ability to double dispense speed while maintaining the highest level of accuracy for both dispense pumps. The patented design corrects for part to part rotation in “real-time” allowing synchronous dispensing of both pumps. DDH dramatically increases productivity with no sacrifice to yield and is compatible with Jetting and needle-based pump technologies.

NuJet™ is the latest jetting technology from Camalot that is positioned to live up to its description of “Compact, Fast and Flexible”. NuJet eliminates the use of a needle and incorporates a state-of-the-art pneumatic actuator that generates an operating frequency of up to 300Hz. Controlling the piston with a pneumatic actuator and closed-loop software achieves a high degree of accuracy and repeatability for consistent process results.

“Key drivers in the design of NuJet, were ease of use and reduced cost of ownership. The compact design minimizes mass and allows for extremely fast dispensing and exceptional control,” said Hugh Read, ITW EAE Dispenser Group Business Manager. “With an operational frequency of 300Hz, NuJet is arguably the fastest pneumatic jetting pump available.”

The combination of DDH and NuJet within the Prodigy provides the ultimate solution for dual head dispensing. The ability to pitch the pumps from 28mm to 160mm with any pump type allows an extremely broad range of use within all market segments associated with electronics assembly.

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Learn more at www.itweae.com

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