Abstract

Meyer Burger provides a CONx system to Nextflex: a fully automated GEN2.5 multi-process tool for manufacturing of FHE devices. The partners in this project, DuPont and Eastman Co., will bring in materials and will be among the tool users for materials development and product prototyping. The project is further supported by Intrinsiq Materials Inc. as key supplier and by GE Research.

The CONx consist of two printing stations, capable of easy print head exchange for printing multiple materials, and the FLEx LT plasma module for low temperature deposition, etching and surface conditioning. Furthermore, it will include unique features, such as new real-time metrology for advanced process control and technology for printing extremely small features.

The really unique aspect of the CONx equipment is that it can accommodate many different users for product prototyping as materials/application switch is simply done by changing digital image, recipe and print head assembly in only a few minutes. As a result, the users and their customers can expect a substantially shorter time-to-market and a significant risk reduction during volume ramp-up.

CONx system for FHE manufacturing – the equipment will be installed and supported by Meyer Burger and will include a full set of base-line recipes for plasma processing and inkjet printing of conductive, dielectric and adhesive materials.