



Meyer Burger to showcase Thin Film Encapsulation technology at LOPEC

Meyer Burger will exhibit its Thin Film Encapsulation and Barrier Film technologies at LOPEC. The technology is key in the production of flexible and sensitive electronic devices. It replaces glass encapsulation in OLED lighting and display panels offering equivalent moisture and oxygen barrier functionality at reduced device thickness and weight in combination with improved flexibility and robustness. The technology also enables other flexible display products, thin film batteries and protects printed electronics and perovskite solar modules.

One of the Meyer Burger systems on display at LOPEC is the CONx TFE. This system provides excellent water and oxygen barrier properties without compromising the optical transparency of the encapsulation layer. The fully automated system features Meyer Burger's proprietary remote plasma PECVD for inorganic coating and its PiXDRO inkjet printing technology for the deposition of accurately positioned and homogeneous organic layers.

"Because particle contamination is an important concern in barrier fabrication, we have put a lot of effort in developing a process flow without shadow masks, as well as engineering a clean and inert environment and particle free handling of the substrates", says Edward Clercx, Business Unit Manager Thin Film Systems. Mr Clercx continues: "Our remote microwave plasma technology offers the right set of characteristics for barrier layers. Low temperature (below 100°C), low ion bombardment, excellent layer homogeneity and conformity combined with high throughput make it the method of choice for encapsulation of OLEDs, and other flexible electronics applications like thin film batteries, thin film PV and printed electronics. Meyer Burger's long standing experience in inkjet printing didn't only enable us to deliver high quality inkjet layers, printed in a fully inert nitrogen environment, it also permitted us to take full responsibility over the total encapsulation process. This played an important role in the decision of our customers to select our CONx solution."

The CONx TFE cluster system comprises a JETx inkjet printer containing a high accuracy, granite base, printing stage, multi head configuration and inline UV curing. The cluster handles Gen 2.5 substrates, encapsulating thousands of OLED devices per hour and is equipped with automatic docking of inert substrate containers for seamless integration in the overall OLED production flow.





MEYER BURGER

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About Meyer Burger Technology Ltd

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Meyer Burger is a leading global technology company specialising on innovative systems and processes based on semiconductor technologies. The company's focus is on photovoltaics (solar industry) while its competencies and technologies also cover important areas of the semiconductor and the optoelectronic industries as well as other selected high-end markets based on semiconductor materials. Over the past ten years, Meyer Burger has risen to the forefront of the photovoltaic market and established itself as an international premium brand by offering superior precision products and innovative technologies.

Meyer Burger's offering in systems, production equipment and services along the photovoltaic value chain includes the manufacturing processes for wafers, solar cells, solar modules and solar systems. Meyer Burger provides substantial added value to its customers and clearly differentiates itself from its competitors by focusing on the entire value chain.

The company's comprehensive product portfolio is complemented by a worldwide service network with spare parts, consumables, process know-how, customer support, after-sales services, training and other services. Meyer Burger is represented in Europe, Asia and North America in the respective key markets and has subsidiaries and own service centres in China, Germany, India, Japan, Korea, Malaysia, the Netherlands, Switzerland, Singapore, Taiwan and the USA. The company is also working intensively to develop new markets such as South America, Africa and the Arab region. The registered shares of Meyer Burger Technology Ltd are listed on the SIX Swiss Exchange (Ticker: MBTN)