

## **EV Group and Notion Systems Team Up on Nanoimprint Lithography – April 19, 2023**

### **EV Group and Notion Systems Team Up to Combine Nanoimprint Lithography with Inkjet coating for New High-Volume-Manufacturing Applications**

Collaboration creates new application opportunities for nanoimprint lithography (NIL) and cements EVG's NIL leadership with inkjet capabilities in a fully automated NIL solution



Dr. Thomas Glinsner, Corporate Technology Director for EV Group, and Antonio Schmidt, SVP Sales and Marketing for Notion Systems, at SPIE Photonics West 2023 in San Francisco

**ST. FLORIAN, Austria and SCHWETZINGEN, Germany, April 17, 2023**—EV Group (EVG), a leading supplier of wafer bonding and lithography equipment for the MEMS, nanotechnology and semiconductor markets, and Notion Systems, a leading supplier of industrial inkjet coating systems for functional materials, today announced that they have entered into an agreement to develop the first fully integrated and automated nanoimprint lithography (NIL) solution with inkjet coating capabilities.

Per the joint agreement, the two companies will develop a customized inkjet module to be integrated in EVG's industry-benchmark HERCULES® NIL platform based on EVG's SmartNIL® technology. The new inkjet module will be complementary to EVG's existing spin-coating modules and will be offered as an alternative option for dispensing NIL photoresists on substrates for high-volume-manufacturing (HVM) applications for NIL that have unique film deposition and uniformity needs. Through this partnership, EVG further cements its leadership in NIL with inkjet capabilities in a fully integrated and automated NIL solution.

“As both a pioneer and the established market leader in NIL, EVG partners with companies across the nanoimprint supply chain within its NILPhotonics® Competence Center to continually innovate NIL to support new applications and provide greater benefits for our customers,” stated Dr. Thomas Glinsner, corporate technology director at EV Group. “By teaming up with Notion Systems, a specialized supplier of industrial, high-volume-production inkjet systems with an established and field-proven solution for the optical/display, electronics and semiconductor markets, we can reduce the time to market for incorporating this unique additive manufacturing approach to our own NIL portfolio, and more quickly bring the performance benefits of inkjet-based nanoimprint to our customers.”

## **Inkjet coating enables new opportunities for NIL**

Inkjet deposition can enable fine tuning of the resist amount and placement on a substrate to achieve uniform residual layer thicknesses after the NIL process, which in turn allows for high-quality pattern transfer. Inkjet deposition also allows for selective area resist coating, independent of the fill factor and structure size and height, making it ideal for applications like augmented/virtual reality (AR/VR) gratings with narrow spaces and unique topographies. This unique deposition approach can also reduce material consumption, resulting in significant cost savings associated with nanoimprint resists.

“We are pleased to be partnering with EV Group on this important development for the NIL market,” stated Dr. Kai Keller, VP Business Development, Notion Systems. “With its high precision, drop placement accuracy and uniformity, our n.jet inkjet deposition technology in combination with EVG’s SmartNIL technology provides the perfect match for supporting new NIL applications that cannot be met with current spin coating approaches. This collaboration provides EVG with a powerful new and unique additive manufacturing capability to support its customers’ growing needs, while at the same time providing us with first-mover status in the rapidly growing NIL market.”

Demonstrations of EVG’s HERCULES SmartNIL UV-NIL system in conjunction with standalone inkjet deposition capabilities are available at the company’s NILPhotonics Competence Center located at EVG’s corporate headquarters. More information on EVG’s HERCULES NIL system can be found at <https://www.evgroup.com/products/nanoimprint-lithography/uv-nil-smartnil/hercules-nil/>.

### About Notion Systems

*Notion Systems* is a leading supplier of industrial ink jet coating systems. The *n.jet* inkjet platform from Notion Systems is used to produce printed circuit boards, OLED & QLED displays, sensors and high-quality 3D parts. Notion Systems relies on decades of experience bringing precise inkjet systems to customers and scaling up digital printing processes for functional materials. Notion Systems is based in Schwetzingen close to Heidelberg - Germany and works together with leading sales and service organizations worldwide with focus on Asia, Europe and North America. For more information, visit [www.notion-systems.com](http://www.notion-systems.com).

### About EV Group (EVG)

EV Group (EVG) is a leading supplier of equipment and process solutions for the manufacture of semiconductors, microelectromechanical systems (MEMS), compound semiconductors, power devices and nanotechnology devices. Key products include wafer bonding, thin-wafer processing, lithography/nanoimprint lithography (NIL) and metrology equipment, as well as photoresist coaters, cleaners and inspection systems. Founded in 1980, EV Group services and supports an elaborate network of global customers and partners all over the world. More information about EVG is available at [www.EVGroup.com](http://www.EVGroup.com).

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