



(Korea)

New Multi-Functional Micro- and Nanoimprint Solution from EV Group Offers Unprecedented Flexibility for High-Volume Optical Device Manufacturing – January 18, 2022

EVG®7300 is the most advanced EVG solution to combine multiple UV-based processes, such as nanoimprint lithography (NIL), lens molding and lens stacking (UV bonding), in a single platform

ST. FLORIAN, Austria, Jan. 18, 2022 /PRNewswire/ -- EV Group (EVG), a leading supplier of wafer bonding and lithography equipment for the MEMS, nanotechnology and semiconductor markets, today introduced the EVG®7300 automated SmartNIL® nanoimprint and wafer-level optics system. The EVG7300 is the company's most advanced solution to combine multiple UV-based process capabilities, such as nanoimprint lithography (NIL), lens molding and lens stacking (UV bonding), in a single platform. This industry-ready, multi-functional system is designed to serve advanced R&D and production needs for a wide range of emerging applications involving micro- and nano-patterning as well as functional layer stacking. These include wafer-level optics (WLO), optical sensors and projectors, automotive lighting, waveguides for augmented reality headsets, bio-medical devices, meta-lenses and meta-surfaces, and optoelectronics. Supporting wafer sizes up to 300 mm and featuring high-precision alignment, advanced process control and high throughput, the EVG7300 meets the high-volume manufacturing needs for a variety of freeform and high-precision nano- and micro-optical components and devices.



The EVG®7300 SmartNIL® nanoimprint and wafer-level optics system is a versatile, advanced solution that combines multiple UV-based process capabilities in a single platform.

"With more than 20 years of experience in nanoimprint technology, EV Group continues to pioneer this critical field to develop innovative solutions to meet our customers' evolving needs," stated Thomas Glinsner, corporate technology director at EV Group. "The latest introduction to our family of nanoimprint solutions, the EVG7300, combines our SmartNIL full-field imprint technology with lens molding and lens stacking in a state-of-the-art system with the most precise alignment and process parameter control on the market—providing our customers with unprecedented flexibility for their industry research and production needs." The EVG7300 system is offered as both a stand-alone tool as well as an integrated module in EVG's HE RCULES® NIL fully integrated UV-NIL track solution where additional pre-processing steps, such as cleaning, resist coating and baking or post-processing, can be added to optimize for particular process needs. The system features industry-leading alignment accuracy (down to 300 nm), which is enabled by a combi

nation of alignment stage improvements, high-accuracy optics, multi-point gap control, non-contact gap measurement and multi-point force control. The EVG7300 is a highly flexible platform that offers three different process modes (lens molding, lens stacking and SmartNIL nanoimprint) and support for substrate sizes ranging from 150-mm to 300-mm wafers. Quick loading of stamps and wafers, fast alignment optics, high-power curing and a small tool footprint enable a highly efficient platform capable of serving the industry's manufacturing needs for emerging WLO products.

Product Availability

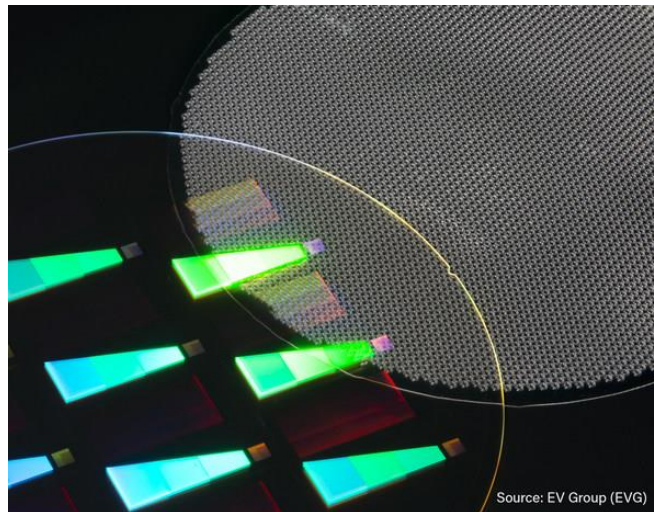
EVG is currently accepting orders for the system, and product demonstrations are now available at EVG's NILPhotonics® Competence Center located at the company's headquarters. For more information on the EVG7300 automated SmartNIL nanoimprint and wafer-level optics system, visit <https://www.evgroup.com/products/nanoimprint-lithography/uv-nil-smartnil/evg-7300/>.

EVG at SPIE AR/VR/MR 2022

Next week, EVG is giving an invited talk on the benefits of NIL in manufacturing augmented reality waveguides at the SPIE AR/VR/MR Conference and Exhibition, co-located with SPIE Photonics West, which is being held at the Moscone Center in San Francisco on January 22-27. EVG is also an exhibitor at the event, and will showcase its advanced manufacturing solutions for optical and photonic devices and applications.

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.



SmartNIL® structured augmented reality (AR) waveguides and wafer-level-microlenses imprint showcasing the application versatility of the new EVG®7300.

<https://us.acrofan.com/detail.php?number=601797>