

Product Launch

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Nanonex launches new advanced 12” full-wafer nanoimprinter NX-2012 to offer sub-5nm imprinting resolution

Princeton NJ, January 25, 2023:

Nanonex Corporation, the inventor and world’s leading provider of nanoimprint lithography solutions with the longest history, is proud to launch its new Nanonex NX-2012 tool for supporting cutting-edge nano-/micro-technologies.

The Nanonex NX-2012 is a full-wafer nanoimprinter. It is capable of all imprint forms: thermal, photo-curable, and embossing, with sub-5nm imprinting resolution. Based on the Nanonex unique patented Air Cushion Press™ technology, the NX-2012 offers unsurpassed uniformity over up to a full 12” wafer regardless of backside topology, wafer or mask flatness, or backside contamination. This ACP technology also eliminates lateral shifting between the mask and substrate, which significantly increases mask lifetime. The small thermal mass design allows fast thermal cycling, resulting in a fast process cycle.

The NX-2012 will address the increasing demand from industry and academics in the field of AR/VR, consumer electronics, health care, etc. It can cut the nanopatterning time from hours – and even weeks – to mere minutes. With the Air Cushion Press™ technology and full-wafer thermal and UV nanoimprint

capabilities, the NX-2012 will bring versatility and flexibility to various projects and become the essential piece for nanostructure processing at the user's facility.

Nanonex Corporation is the inventor of “nanoimprint lithography”, the world's first nanoimprint lithography company, and the world's leading provider of nanoimprint solutions that include equipment, masks, resists, and processes. Nanonex's patented and proprietary nanoimprint lithography (NIL) solutions and Air Cushion Press TM can manufacture 3D nanostructures with sub-5 nm resolution, large-area uniformity, accurate overlay alignment, high throughput, and low cost. Nanonex NIL solutions have been adopted by a broad spectrum of applications, such as optical devices, data storage, displays, light-emitting diodes, semiconductor ICs, biotech, chemical synthesis, and advanced materials. Nanonex has over 100 customers and an installed base of over 100 tools worldwide.

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