



PRESS RELEASE

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Obducat launch revolutionary technology enabling full industrialization of NIL

OBDUCAT AB (publ) subsidiary Obducat Technologies AB, a leading supplier of lithography solutions based on nanoimprint lithography (NIL), launches new technology enabling the final step towards full industrialization of nanoimprint lithography. The technology has already been completed for Obducat's fully automated Sindre system, as well as for Eitre Large Substrate.

For several years, Obducat has worked to establish a universal solution that eliminates the problem of compatibility between materials used in the imprint process. With the newly developed technology, Obducat can coat the intermediate polymer stamp, called IPS®, with a very thin layer of anti-stick molecules to ensure a pattern resolution at the nanometer level while at the same time achieving the desired anti-stick properties. The technology is based on a unique CVD (Chemical Vapor Deposition) process that is performed at low vacuum enabling a short process cycle that is specially targeted for implementation in high volume manufacturing. The CVD unit is fully integrated into the NIL system where the IPS® is handled automatically in an R-2-R (Roll-to-Roll) system. Furthermore, this also means that the CVD solution has been possible to integrate with Obducat's demolding system, which was recently granted a patent in the USA.

The many limitations that have been associated with a combination of different imprint materials are significantly reduced with the new technology. Clear advantages such as fewer defects, higher yield and an increased number of times an IPS can be used, contribute to lower production costs overall. The anti-stick technology has already been realized for Obducat's fully automated Sindre system, as well as for the Eitre Large Substrate system. It is a technological advance that enables the industrialization, especially in the case of imprints on large substrate surfaces, as the necessary demolding force is significantly reduced.

" This is a very important milestone we have managed to complete. Being able to do in-line anti-stick treatment of the IPS is a crucial factor in moving NIL into industrial mass production. Most of the applications the company focuses on, that have the potential to reach large production volumes, can directly benefit from this technological advancement. An application area that is highly relevant presently is bio- and medical devices, but also the next generation of optical and photonic devices such as AR products (Augmented Reality) requiring the need for imprinting of complex nanostructures on larger substrates - something that is significantly simplified with our new technology. ", says Patrik Lundström, Chairman of Obducat.

Obducat has already completed the first Eitre Large Substrate system with integrated CVD process, an order that the company communicated in the year-end report in February 2019 and has received factory approval from the customer. Installation of systems at the customer will be carried out as soon as the travel restrictions allow.

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About Obducat AB (publ)

Obducat AB (publ) is an innovative developer and supplier of technologies, products and processes used for the production and replication of advanced micro and nano structures. Obducat's products and services serve the demands of companies within the LED, OLED, semiconductor, displays, biomedical and MEMS industries. Obducat's technologies include nano imprint technology, coating technology and wet processing technology. Obducat has offices in Sweden, Germany and China and the headquarter is located in Lund, Sweden. Obducat is a public company. Obducat's shares are traded on the Swedish NGM Main Regulated Equity exchange. Read more at www.obducat.com.

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