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Imprint Technologies

The business area Micro Engineering of Optical Systems Division is a global market leader in imprinting solutions and specialized synchrotron equipments like monochromators and x-ray scanners.

Micro structuring of polymers is becoming increasingly attractive as a viable alternative to more complex and costlier approaches for the creation of low cost, three-dimensional micro structures. The compatible materials available today are typically low cost and easy to handle. Micro fluidic and micro optic applications are the main driver for microstructures in polymers. These applications are part of bio-MEMS, optical-MEMS and total analytical systems (TAS) used for Life Science purposes.

Nanoimprint is regarded as one of the 10 emerging technologies that will change the world. There are two approaches – thermal imprinting and UV curing – available to transfer structures below 50 nm from the master mould to the substrate. Applications requiring nanoimprint technology are magnetic data storage, photonic crystals, refractive optics (ROE), diffractive optics (DOE) and nanoimprint lithography (NIL).

As equipment manufacturer and total solution provider we offer our customers an intensive know how from the design phase to the production ramp up including master manufacturing and process development. Jenoptik's latest innovation provides a highly effective solution to large volume applications which require highly automated and high throughput manufacturing systems. The system features substrates up to 300 mm in diameter, short cycle times, UV curing module and precision optical alignment. In addition, the HEX 04 uses Jenoptik's proprietary active de-embossing technology which ensures a very highly effective separation process of the embossing mold from the substrate. Active de-embossing is a main requirement for industrial automation minimizing the stress induced in the substrate and reducing the separation time. Due to its modular concept the HEX 04 is easy configurable to meet your production requirements.

You will find more information about Jenoptik's products and technologies at:

www.jo-mt.com