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Global and China Nanoimprint Lithography System Market Research by Company, Type & Application 2013-2025

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Abstracts

SUMMARY

Imprinting technology is an ancient technique for the reproduction of writings on appropriate supports. Since 1990?s, one of the imprinting techniques, i.e., injection moulding has been used for compact disk (CD) production. More recently, the semiconductor industry is interested in imprint related techniques because of the mass production requirement of future microelectronic circuits with a possible critical dimension down to a few nanometers. At this deep nanometer scale, traditional photolithography is supposed to rule out because of the optical diffraction or material limitations. In fact, the actual minimum feature size in an integrated circuit (IC) is already less than 50 nm and the actual manufacturing systems are already extremely sophisticated and expensive. The semiconductor industry has always been looking for alternative patterning methods in order to follow Moore?s law, which has been formulated to predict the evolution of the technology nodes. Now, extreme UV lithography (EUV), 193 nm immersion lithography, mask less lithography (MLL) techniques and nanoimprint lithography (NIL) are considered as candidates for the so called Next Generation Lithography (NGL) at 32 nm and 22 nm nodes. In parallel, imprint technology has been promoted by a large scientific community and non-IC industry segments including high-density storage, optoelectronics, telecommunication as well as biochips or micro total analysis systems.

Market Segment as follows:

By Type

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Hot Embossing (HE)

UV-based Nanoimprint Lithography (UV-NIL)

Micro Contact Printing (?-CP)

By Application

Consumer Electronics

Optical Equipment

Others

By Company

Obducat

EV Group

Canon (Molecular Imprints)

Nanonex

SUSS MicroTec

GuangDuo Nano

The main contents of the report including:

Section 1:
Product definition, type and application, global and China market overview;
Section 2:
Global and China Market competition by company;
Section 3:
Global and China sales revenue, volume and price by type;

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Section 4:
Global and China sales revenue, volume and price by application;
Section 5:
China export and import;
Section 6:
Company information, business overview, sales data and product specifications;
Section 7:
Industry chain and raw materials;
Section 8:
SWOT and Porter's Five Forces;
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