OTB ENGINEERING

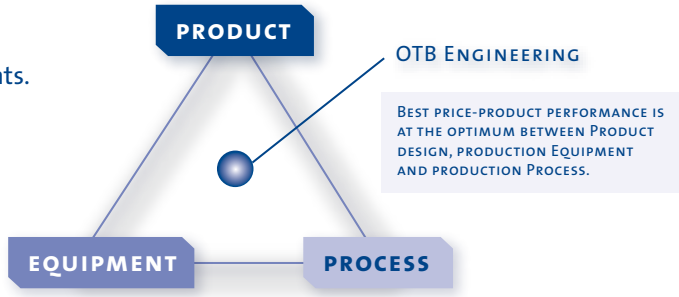
BREAKTHROUGH SOLUTIONS
IN PRODUCTION TECHNOLOGY

In today's global market consumers demand more and better products. The challenge for the industry is to bring superior products to the marketplace in shorter time, with less costs while responding quickly to continuous changing demands. OTB Engineering is a leading company in the design, development, engineering and manufacturing of tailor-made production equipment. By applying our philosophy we are enabling our customers to produce at the lowest cost giving them the competitive edge in the market.

Lowest Cost per Product

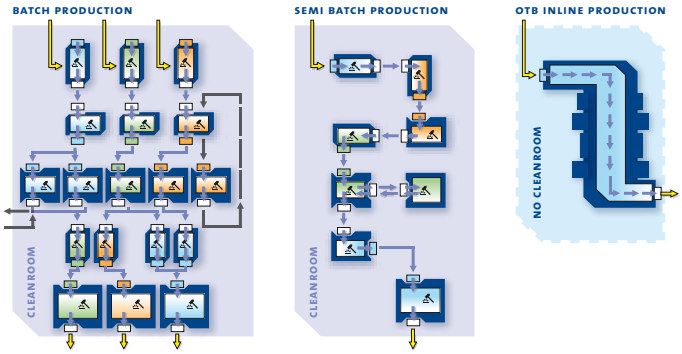
OTB Engineering has a proven track record in building integrated systems which produces more with less investments. This Total Cost of Ownership advantage is realized by:

- High Through-put
- High Up-time
- High Yield
- Optimal Material Utilization
- Automation



We achieve our drive to reduce Total Cost of Ownership by applying:

Inline manufacturing concepts



Efficient production is realized by using the inline philosophy. Our process know-how and equipment building skills provide OTB Engineering an unmatched position in the market. We eliminate buffers by combining and synchronizing production steps. The optimized production steps are integrated in a single production system which also includes a conditioned environment for critical processes.

Out-of-the box methodology

To create excellent inline production equipment, out-of the box thinking is a must. OTB Engineering is always focused on understanding the chemical and physical limits of a batch process and uses this knowledge to design inline manufacturing equipment enabling reduced costs. We have demonstrated our philosophy and capabilities for a large number of applications among which CD/DVD and solar cell manufacturing. For example, our innovative equipment reduced the cost of making a single CD from 3.5 euros to 0.12 euros. The same cost reduction is realized for solar cell production, contact lenses and many other applications. Our equipment has an installed base at all major players in the field.

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BREAKTHROUGH SOLUTIONS IN PRODUCTION TECHNOLOGY

Breakthrough Technologies

OTB Engineering has it's own R&D facilities where over the years we developed patented technologies that form the core of our successful equipment. This technology 'toolbox' includes:

- High Precision Injection Moulding
- Thin Film Deposition such as Physical Vapor Deposition and Plasma Enhanced Chemical Vapor Deposition
- Lithographic processes
- Printing

By integrating these technologies into inline equipment we give our customers the quantum leap in high quality production at the lowest cost and with highest yield.

High Precision Injection Moulding

By developing the worlds first direct driven fully electric Injection Molding Machine, OTB created the SDM60 (Servo Driven Molder) with many unique specifics, capable of molding thin substrates with nano-structures and other high precision products. As a fully electrical system it is ready for clean room operation and capable of energy efficient production at low noise levels.

Thin Film Deposition Processes

OTB Engineering has developed a variety of fast thin film technologies such as: PECVD plasma enhanced chemical vapor deposition), CVD (chemical vapor deposition), PVD (physical vapor deposition, doping, spinning and bonding. We can integrate and combine these thin film technologies in almost any application. For multi layers stacks we have developed the DEPX. The DEPX is able to combine all above mentioned processes in one production machine tailor made to your needs.

Lithographic processes

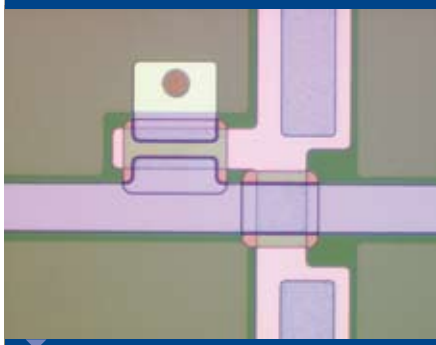
OTB Engineering has the expertise to create images at micro and nano level in photo resist and the knowledge required to develop micro and nano structures. This technology is now used for the production of master plates in the optical media industry. Applications for this technology can be found in the Flat Panel Display and MEMS industry.

Printing

OTB Engineering developed great expertise in industrial printing technologies in the past decade. These proprietary technologies are further deployed to offer a total solution for a wide variety of printing applications, from material and print head development to complete print systems. Print systems from OTB are able to print a large variety of materials.

HIGH PRECISION INJECTION MOULDING

THIN FILM DEPOSITION PROCESSES



LITHOGRAPHIC PROCESSES

PRINTING

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