

2018-2023 Global Mask Inspection Equipments Consumption Market Report

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Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Mask Inspection Equipments market for 2018-2023.

A mask is an original master for transferring IC patterns to the semiconductor wafers. Defects during lithography that exceed expected size must be identified and corrected.

Mask inspection equipment looks for pattern defects and foreign matter on the surface of the mask. This equipment is used in semiconductor plants to inspect masks received from suppliers, such as mask shops, and to conduct regular inspections of masks during the device production process. Mask inspection equipment is also used by mask shops to inspect masks before shipment to device makers.

A major reason why mask inspection equipment is required is that masks often develop a solid growing foreign matter (haze) on their top surface and back side. Masks therefore must be inspected for such impurities before continuing with the semiconductor manufacturing process. The adoption of ArF lithography has increased the level of irradiation light energy. During exposure, gaseous impurities, such as organic substances and ammonia, are present in trace amounts on the mask. Irradiation by a short wavelength laser decomposes these gaseous substances and induces bonding, which often leads to the emergence of a solid growing foreign matter (haze) on the top surface and back side of the mask. Although this haze is microscopic, usually only several tens of nanometers, if it grows it will be transferred to the wafer during the lithography process, resulting in a defective semiconductor device.

Defects that are detected after patterns are written on masks include protrusions from the pattern, cracks in the pattern, dirt or dust on the transparent portion, and transparent pinholes in the portion of the pattern that is shielded from light.

The report focuses on the Mask Inspection Equipment market, but does not include revenue generated from the sale of components that are used in the production or resale of mask inspection equipment.

The semiconductor market is shifting toward complex and miniaturized devices. Semiconductor device manufacturers need higher inspection sensitivity as they move toward lower node sizes (10nm and beyond). The migration will introduce complex structures and designs, as well as new materials.

Intense market competition, rapid technological advances, and cyclical nature of the semiconductor industry pose significant challenges to market vendors. The market has significant entry barriers such as high capital investments which challenge the entry of new players in the market. The competition among the vendors is expected to intensify due to the emergence of new technology milestones like IoT and wearable technology. In terms of geography, the APAC region led the global mask inspection equipment and the four countries including China, Taiwan, Japan, Korea, are expected to reach close to \$386.95 million by 2018, due to the existence of manufacturing industries in Asian countries. China, Taiwan, Japan, and South Korea have a very rich environment for manufacturing companies. The economic growth in China and India is also driving the strong demand for electronic products in the semiconductor inspection system market. Over the next five years, LPI(LP Information) projects that Mask Inspection Equipments will register a 8.1% CAGR in terms of revenue, reach US\$ 690 million by 2023, from US\$ 440 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Mask Inspection Equipments market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Die to Die (DD) Method

Die to Database (DB) Method

Segmentation by application:

Semiconductor Device Manufacturers

Mask Shops

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

KLA-Tencor

Applied Materials

Lasertec

Carl Zeiss

ASML (HMI)

In addition, this report discusses the key drivers influencing market growth,

opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Mask Inspection Equipments consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Mask Inspection Equipments market by identifying its various subsegments.

Focuses on the key global Mask Inspection Equipments manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Mask Inspection Equipments with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Mask Inspection Equipments submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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