

Ion Beam Technology Market (Technology - Ion Beam Etching System and Ion Beam Deposition System; Application - Frequency Trimming of BAW (Bulk Acoustic Wave) Filter, Surface Trimming of SAW (Surface Acoustic Wave) Filter, Thickness and Pole Width Correction of Thin Film Recording Head, and Coating of Dielectric Film) - Global Industry Analysis, Trend, Size, Share and Forecast 2017 - 2025

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Abstracts

Global Ion Beam Technology Market: Overview

Application of ion beam was rarely found outside the microelectronics industry, up to about a decade ago. However, currently, the ion beam systems are being commonly found in a broad range of applications in the medical science laboratories. Ion beam microscopy is being used in a wide range of material science applications, including specimen preparation and in the generation of 3D visualization. Moreover, the ion beam systems are also used in the field of material science for circuit editing, microstructural analysis and prototype nanomachining. In addition, ion beam technology are also used in order to prepare non-biological specimens of transmission electron microscopes (TEM). Ion beam method increases the locational precision of the TEM specimens, as well as significantly reduce the time required for the preparation of the specimens. The current generation of ion beam instruments are also used for the specimen preparation of atom probe tomography (APT).

Furthermore, ion beam based systems are also being used for generating 3D images. Conventionally, dual beam focused ion beams (FIB) are used for 3D tomography

studies. FIB systems are preferred in this area because these systems require very little or no specimen preparation and are applicable readily to a wide range of materials in 3D tomography. Thus, increasing application of Ion beam systems in material science is one of the most important factor anticipated to trigger the market growth of ion beam technology during the forecast period from 2017 to 2025.

Global Ion Beam Technology Market: Segmentation

In order to provide a detailed and exhaustive analysis of the market, the global ion beam technology market has been segmented on the basis of technology and application. Depending on various technology of ion beam used in semiconductor manufacturing process, the market has been classified into ion beam etching system and ion beam deposition system. Ion beam trimming has been included within the research scope of ion beam etching system as ion beam trimming helps in localized trimming only.

In addition, various application in which ion beam technology are majorly utilized such as frequency trimming of BAW (Bulk Acoustic Wave) filter, surface trimming of SAW (Surface Acoustic Wave) filter, thickness and pole width correction of thin film recording head and coating of dielectric film is also covered within the scope of the report. Moreover, information related to current market synopsis along with future anticipated growth trend of all the above mentioned segment across various regions including Asia Pacific, North America, Europe, Middle-East and Africa (MEA) and Latin America is also highlighted in this report.

Global Ion Beam Technology Market: Scope of the Report

The major players operating in the ion beam technology market have been profiled competitively across various geographical regions globally. In addition, the leading strategies adopted by the key players to maintain their dominating position in the market, capital expenditure trend and SWOT (Strength, Weakness, Opportunity and Threat) analysis is also provided to give a detailed idea of the competitive landscape. Further, market attractiveness analysis in respect of product type is also furnished in this report in for providing in-depth perspective of the market.

The report also provides assessment of different drivers that is impacting the global market, along with the restraints and opportunities that are anticipated to affect the demand of ion beam equipment in the coming years. For each segment (such as product type and application), market dynamics analysis has also been provided in this report. All these factors helps in determining different trends that has been impacting

the overall market growth. Moreover, after taking into consideration all these factors, an extensive analysis of the region wise growth parameters of ion beam technology market along with the overall assessment during the forecast period of 2017 - 2025 has been also been furnished within this report. Furthermore, the report includes capital expenditure trend of various SAW and BAW manufacturers for purchasing ion beam equipment in order to give a complete idea of the future anticipated demand of ion beam for RF equipment manufacturing process.

Some of the major players operating in the ion beam technology market includes Veeco Instruments Inc. (New York), Scia Systems GmbH (Germany), Hitachi High-Technologies Corporation (Japan) and Canon Anelva Corporation (Japan) among others.

The ion beam technology market has been segmented as follows:

Global Ion Beam technology Market, by Technology

- Ion Beam etching System

- Ion Beam Deposition System

Global Ion Beam Technology Market, by Application

- Frequency Trimming of Bulk Acoustic Wave (BAW) Filter

- Surface Trimming of Surface Acoustic Wave (SAW) Filter

- Thickness and Pole Width Correction of Thin Film Recording Head

- Coating of Dielectric Film

Global Ion Beam Technology Market, by Geography

- North America

 - The U.S.

 - Mexico

Canada

Europe

U.K

Germany

Eastern Europe including Russia

Italy

Rest of Europe

Asia Pacific

China

Taiwan

Korea

Rest of Asia Pacific

Middle East and Africa

United Arab Emirates

Israel

Rest of Middle East and Africa (MEA)

Latin America

Brazil

Rest of Latin America

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