

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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## 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 prove 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 this 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

## Table of Content

### CHAPTER 01 PREFACE

- 1.1 Report Scope and Market Segmentation
- 1.2 Research Highlights

### CHAPTER 02 ASSUMPTIONS AND RESEARCH METHODOLOGY

- 2.1 Assumptions and Acronyms Used
- 2.2 Research Methodology

### CHAPTER 03 EXECUTIVE SUMMARY

### CHAPTER 04 MARKET DYNAMICS

- 4.1 Overview
- 4.2 Drivers and Restraints Snapshot Analysis
  - 4.2.1 Drivers
  - 4.2.2 Restraints
  - 4.2.3 Opportunity Analysis
- 4.3 Market Overview
- 4.4 Competitive Land Landscape
- 4.5 Market Attractiveness Analysis
- 4.6 Cost Structure of Various SAW and BAW Manufacturers

### CHAPTER 05 ION BEAM TECHNOLOGY MARKET ANALYSIS, BY TECHNOLOGY

- 5.1 Introduction
- 5.2 Global Ion Beam Technology Market, Value Share Analysis, by Technology
- 5.3 Global Ion Beam Technology Market Forecast, by Technology

### CHAPTER 06 ION BEAM TECHNOLOGY MARKET ANALYSIS, BY APPLICATION

- 6.1 Introduction
- 6.2 Global Ion Beam Technology Market, Value Share Analysis, by Application
- 6.3 Global Ion Beam Technology Market Forecast, by Application

### CHAPTER 07 ION BEAM TECHNOLOGY MARKET ANALYSIS, BY REGION

- 7.1 Geographical Scenario
- 7.2 Global Ion Beam Technology Market, Value Share Analysis, by Region
- 7.3 Global Ion Beam Technology Market, Revenue Analysis, by Region

### CHAPTER 08 NORTH AMERICA ION BEAM TECHNOLOGY MARKET ANALYSIS

- 8.1 Key Trends Analysis
- 8.2 North America Ion Beam Technology Market, Value Share Analysis, by Technology
- 8.3 North America Ion Beam Technology Market, Revenue Analysis, by Technology
- 8.4 North America Ion Beam Technology Market, Value Share Analysis, by Application
- 8.5 North America Ion Beam Technology Market, Revenue Analysis, by Application
- 8.6 North America Ion Beam Technology Market, Value Share Analysis, by Country
- 8.7 North America Ion Beam Technology Market, Revenue Analysis, by Country

### CHAPTER 09 EUROPE ION BEAM TECHNOLOGY MARKET ANALYSIS

## 9.1 Key Trends Analysis

- 9.2 Europe Ion Beam Technology Market, Value Share Analysis, by Technology
- 9.3 Europe Ion Beam Technology Market, Revenue Analysis, by Technology
- 9.4 Europe Ion Beam Technology Market, Value Share Analysis, by Application
- 9.5 Europe Ion Beam Technology Market, Revenue Analysis, by Application
- 9.6 Europe Ion Beam Technology Market, Value Share Analysis, by Country
- 9.7 Europe Ion Beam Technology Market, Revenue Analysis, by Country

## **CHAPTER 10 ASIA PACIFIC ION BEAM TECHNOLOGY MARKET ANALYSIS**

### 10.1 Key Trends Analysis

- 10.2 Asia Pacific Ion Beam Technology Market, Value Share Analysis, by Technology
- 10.3 Asia Pacific Ion Beam Technology Market, Revenue Analysis, by Technology
- 10.4 Asia Pacific Ion Beam Technology Market, Value Share Analysis, by Application
- 10.5 Asia Pacific Ion Beam Technology Market, Revenue Analysis, by Application
- 10.6 Asia Pacific Ion Beam Technology Market, Value Share Analysis, by Country
- 10.7 Asia Pacific Ion Beam Technology Market, Revenue Analysis, by Country

## **CHAPTER 11 MIDDLE - EAST AND AFRICA (MEA) ION BEAM TECHNOLOGY MARKET ANALYSIS**

### 11.1 Key Trends Analysis

- 11.2 Middle - East and Africa (MEA) Ion Beam Technology Market, Value Share Analysis, by Technology
- 11.3 Middle - East and Africa (MEA) Ion Beam Technology Market, Revenue Analysis, by Technology
- 11.4 Middle - East and Africa (MEA) Ion Beam Technology Market, Value Share Analysis, by Application
- 11.5 Middle - East and Africa (MEA) Ion Beam Technology Market, Revenue Analysis, by Application
- 11.6 Middle - East and Africa (MEA) Ion Beam Technology Market, Value Share Analysis, by Country
- 11.7 Middle - East and Africa (MEA) Ion Beam Technology Market, Revenue Analysis, by Country

## **CHAPTER 12 LATIN AMERICA ION BEAM TECHNOLOGY MARKET ANALYSIS**

### 12.1 Key Trends Analysis

- 12.2 Latin America Ion Beam Technology Market, Value Share Analysis, by Technology
- 12.3 Latin America Ion Beam Technology Market, Revenue Analysis, by Technology
- 12.4 Latin America Ion Beam Technology Market, Value Share Analysis, by Application
- 12.5 Latin America Ion Beam Technology Market, Revenue Analysis, by Application
- 12.6 Latin America Ion Beam Technology Market, Value Share Analysis, by Country
- 12.7 Latin America Ion Beam Technology Market, Revenue Analysis, by Country

## **CHAPTER 13 COMPANY PROFILES**

### 13.1 Meyer Burger Technology

- 13.1.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.1.2 Market Presence, By Segment and Geography
- 13.1.3 Strategic Overview
- 13.1.4 SWOT analysis
- 13.1.5 Revenue and Year-on-Year (YoY) Growth (%)
- 13.1.6 Capital Expenditure Trend

### 13.2 Carl Zeiss AG

- 13.2.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.2.2 Market Presence, By Segment and Geography
- 13.2.3 Strategic Overview
- 13.2.4 SWOT analysis
- 13.2.5 Revenue and Year-on-Year (YoY) Growth (%)
- 13.2.6 Capital Expenditure Trend

### 13.3 Veeco Instruments Inc.

- 13.3.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.3.2 Market Presence, By Segment and Geography
- 13.3.3 Strategic Overview
- 13.3.4 SWOT analysis
- 13.3.5 Revenue and Year-on-Year (YoY) Growth (%)
- 13.3.6 Capital Expenditure Trend

### 13.4 Scia Systems GmbH

- 13.4.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.4.2 Market Presence, By Segment and Geography
- 13.4.3 Strategic Overview
- 13.4.4 SWOT analysis
- 13.4.5 Revenue and Year-on-Year (YoY) Growth (%)
- 13.4.6 Capital Expenditure Trend

### 13.5 4Wave Incorporated

- 13.5.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.5.2 Market Presence, By Segment and Geography
- 13.5.3 Strategic Overview
- 13.5.4 SWOT analysis
- 13.5.5 Revenue and Year-on-Year (YoY) Growth (%)
- 13.5.6 Capital Expenditure Trend

### 13.6 Hitachi High-Technologies Corporation

- 13.6.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.6.2 Market Presence, By Segment and Geography
- 13.6.3 Strategic Overview
- 13.6.4 SWOT analysis
- 13.6.5 Revenue and Year-on-Year (YoY) Growth (%)
- 13.6.6 Capital Expenditure Trend

### 13.7 Plasma-Therm

- 13.7.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.7.2 Market Presence, By Segment and Geography
- 13.7.3 Strategic Overview
- 13.7.4 SWOT analysis
- 13.7.5 Revenue and Year-on-Year (YoY) Growth (%)
- 13.7.6 Capital Expenditure Trend

### 13.8 Raith GmbH

- 13.8.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.8.2 Market Presence, By Segment and Geography
- 13.8.3 Strategic Overview
- 13.8.4 SWOT analysis
- 13.8.5 Revenue and Year-on-Year (YoY) Growth (%)
- 13.8.6 Capital Expenditure Trend

### 13.9 FEI

- 13.9.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.9.2 Market Presence, By Segment and Geography
- 13.9.3 Strategic Overview
- 13.9.4 SWOT analysis
- 13.9.5 Revenue and Year-on-Year (YoY) Growth (%)
- 13.9.6 Capital Expenditure Trend

### 13.10 Canon Anelva Corporation

- 13.10.1 Company Details (HQ, Foundation Year, Employee Strength)
- 13.10.2 Market Presence, By Segment and Geography
- 13.10.3 Strategic Overview
- 13.10.4 SWOT analysis
- 13.10.5 Revenue and Year-on-Year (YoY) Growth (%)

### 13.10.6 Capital Expenditure Trend

#### LIST OF TABLES

- Table 1 Global Ion Beam Technology Market Forecast, by Technology
- Table 2 Global Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Application, 2016 – 2025
- Table 3 Global Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Region, 2016 – 2025
- Table 4 North America Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Technology, 2016 – 2025
- Table 5 North America Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Application, 2016 – 2025
- Table 6 North America Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Country, 2016 – 2025
- Table 7 Europe Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Technology, 2016 – 2025
- Table 8 Europe Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Application, 2016 – 2025
- Table 9 Europe Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Country, 2016 – 2025
- Table 10 Asia Pacific Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Technology, 2016 – 2025
- Table 11 Asia Pacific Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Application, 2016 – 2025
- Table 12 Asia Pacific Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Country, 2016 – 2025
- Table 13 Middle-East and Africa (MEA) Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Technology, 2016 – 2025
- Table 14 Middle-East and Africa (MEA) Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Application, 2016 – 2025
- Table 15 Middle-East and Africa (MEA) Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Country, 2016 – 2025
- Table 16 Latin America Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Technology, 2016 – 2025
- Table 17 Latin America Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Application, 2016 – 2025
- Table 18 Latin America Ion Beam Technology Market, Revenue (USD Mn) and Forecast, by Country, 2016 – 2025

#### LIST OF FIGURES

- Figure 1 Market Share of Key Players, 2016 (%)
- Figure 2 Market Attractiveness Analysis, by Technology, 2016
- Figure 3 Capital Expenditure Bifurcation of TDK
- Figure 4 Capital Expenditure Bifurcation of Qorvo
- Figure 5 Capital Expenditure Bifurcation of MuRata
- Figure 6 Capital Expenditure Bifurcation of Broadcom Limited
- Figure 7 Capital Expenditure Bifurcation of Skyworks Solutions Inc.
- Figure 8 Global Ion Beam Technology Market, Value Share Analysis, by Technology, 2016 and 2025
- Figure 9 Global Ion Beam Etching System Market Revenue (USD Mn), 2016 – 2025
- Figure 10 Global Ion Beam Deposition System Market Revenue (USD Mn), 2016 – 2025
- Figure 11 Global Ion Beam Technology Market, Value Share Analysis, by Application, 2016 and 2025
- Figure 12 Ion Beam Technology Used for Frequency Trimming of BAW Filters Market Revenue (USD Mn), 2016 – 2025
- Figure 13 Ion Beam Technology Used for Surface Trimming of SAW Filters Market Revenue (USD Mn), 2016 – 2025

Figure 14 Ion Beam Technology Used for Thickness and Pole Width Correction of Thin Film Recording Heads Market Revenue (USD Mn), 2016 – 2025

Figure 15 Ion Beam Technology Used for Coating of Dielectric Film Market Revenue (USD Mn), 2016 – 2025

Figure 16 Global Ion Beam Technology Market, Value Share Analysis, by Region, 2016 and 2025

Figure 17 North America Ion Beam Technology Market, Value Share Analysis by Technology, 2016 and 2025

Figure 18 North America Ion Beam Technology Market, Value Share Analysis, by Application, 2016 and 2025

Figure 19 North America Ion Beam Technology Market, Value Share Analysis by Country, 2016 and 2025

Figure 20 Europe Ion Beam Technology Market, Value Share Analysis, by Technology, 2016 and 2025

Figure 21 Europe Ion Beam Technology Market, Value Share Analysis, by Application, 2016 and 2025

Figure 22 Europe Ion Beam Technology Market, Value Share Analysis by Country, 2016 and 2025

Figure 23 Asia Pacific Ion Beam Technology Market, Value Share Analysis, by Technology, 2016 and 2025

Figure 24 Asia Pacific Ion Beam Technology Market, Value Share Analysis, by Application, 2016 and 2025

Figure 25 Asia Pacific Ion Beam Technology Market, Value Share Analysis, by Country, 2016 and 2025

Figure 26 Middle-East and Africa (MEA) Ion Beam Technology Market, Value Share Analysis, by Technology, 2016 and 2025

Figure 27 Middle-East and Africa (MEA) Ion Beam Technology Market, Value Share Analysis, by Application, 2016 and 2025

Figure 28 Middle-East and Africa (MEA) Ion Beam Technology Market, Value Share Analysis, by Country, 2016 and 2025

Figure 29 Latin America Ion Beam Technology Market, Value Share Analysis, by Technology, 2016 and 2025

Figure 30 Latin America Ion Beam Technology Market, Value Share Analysis, by Application, 2016 and 2025

Figure 31 Latin America Ion Beam Technology Market, Value Share Analysis, by Country, 2016 and 2025



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