

Global Semiconductor Inspection and Metrology Equipment Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Semiconductor Inspection and Metrology Equipment market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

According to the SEMI, global sales of semiconductor equipment was US\$ 109 billion in 2022, a year-on-year increase of 5.6%. Mainland China is the largest semiconductor equipment market in the world. For the third consecutive year, China remained the largest semiconductor equipment market in 2022 despite a 5% slowdown in the pace of investments in the region year over year, accounting for \$28.3 billion in billings. China Taiwan, the second-largest destination for equipment spending, recorded an increase of 8% to \$26.8 billion, marking the fourth straight year of growth for the region. Equipment sales to Korea contracted 14% to \$21.5 billion. Annual semiconductor equipment investments in Europe surged 93%, while North America logged a 38% increase. Sales to the Rest of World and Japan increased 34% and 7% year over year, respectively.

Semiconductor Inspection and Metrology Equipment is one of the core equipment in the integrated circuit production process and is the key to ensuring the yield rate of chip production. There are many steps in the integrated circuit manufacturing process and the process is extremely complex. There are hundreds of processes in the integrated circuit front-end manufacturing process alone. With the improvement of integrated circuit process nodes, the steps of the manufacturing process will continue to increase, and the number of fatal defects generated in the process will also increase. Therefore, the yield rate of each process must be maintained at an extremely high level of almost 'zero defects' Only in this way can the yield rate of the final chip be guaranteed. Semiconductor Inspection and Metrology Equipment is mainly used in wafer

manufacturing and advanced packaging. It mainly uses non-contact methods such as optical and electron beams for photolithography, etching, thin film deposition, cleaning, CMP, rewiring structures, bumps and Through silicon vias and other links are tested.

Inspection refers to detecting whether there are heterogeneous conditions on the wafer surface or in the circuit structure, such as particle contamination, surface scratches, open and short circuits and other characteristic structural defects that have a negative impact on the chip process performance;

Metrology refers to the quantitative description of the structural dimensions and material properties of the observed wafer circuit, such as the measurement of physical parameters such as film thickness, critical dimensions, etching depth, and surface morphology.

This report studies the global Semiconductor Inspection and Metrology Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Inspection and Metrology Equipment, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Inspection and Metrology Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Inspection and Metrology Equipment total production and demand, 2018-2029, (Units)

Global Semiconductor Inspection and Metrology Equipment total production value, 2018-2029, (USD Million)

Global Semiconductor Inspection and Metrology Equipment production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Semiconductor Inspection and Metrology Equipment consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Semiconductor Inspection and Metrology Equipment domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Inspection and Metrology Equipment production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Semiconductor Inspection and Metrology Equipment production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Semiconductor Inspection and Metrology Equipment production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Semiconductor Inspection and Metrology Equipment market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include KLA Corporation, Applied Materials, Hitachi High-Tech, NanoSystem Solutions, Onto Innovation, Camtek, Park System, ASML and ZEISS, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor Inspection and Metrology Equipment market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Semiconductor Inspection and Metrology Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Inspection and Metrology Equipment Market, Segmentation by Type

Inspection Equipment

Metrology Equipment

Global Semiconductor Inspection and Metrology Equipment Market, Segmentation by Application

8 Inch Wafer

12-Inch Wafer

Others

Companies Profiled:

KLA Corporation

Applied Materials

Hitachi High-Tech

NanoSystem Solutions

Onto Innovation

Camtek

Park System

ASML

ZEISS

Microtronic

Lasertec

Toray Engineering

Muetec

UnitySC

Takano Corporation

Wuhan Jingce Electronic Group

Shenzhen Nanolighting Technology

Zhongdao Optoelectronic Equipment

RSIC scientific instrument

Suzhou Secote Precision Electronic

Dongfang Jingyuan Electron

Yuwei Semiconductor Technology

Shenzhen Angstrom Excellence Technology

Nanjing Zhongan Semiconductor Equipment

Key Questions Answered

1. How big is the global Semiconductor Inspection and Metrology Equipment market?
2. What is the demand of the global Semiconductor Inspection and Metrology Equipment market?
3. What is the year over year growth of the global Semiconductor Inspection and Metrology Equipment market?
4. What is the production and production value of the global Semiconductor Inspection and Metrology Equipment market?
5. Who are the key producers in the global Semiconductor Inspection and Metrology Equipment market?

Contents

1 SUPPLY SUMMARY

- 1.1 Semiconductor Inspection and Metrology Equipment Introduction
- 1.2 World Semiconductor Inspection and Metrology Equipment Supply & Forecast
 - 1.2.1 World Semiconductor Inspection and Metrology Equipment Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Semiconductor Inspection and Metrology Equipment Production (2018-2029)
 - 1.2.3 World Semiconductor Inspection and Metrology Equipment Pricing Trends (2018-2029)
- 1.3 World Semiconductor Inspection and Metrology Equipment Production by Region (Based on Production Site)
 - 1.3.1 World Semiconductor Inspection and Metrology Equipment Production Value by Region (2018-2029)
 - 1.3.2 World Semiconductor Inspection and Metrology Equipment Production by Region (2018-2029)
 - 1.3.3 World Semiconductor Inspection and Metrology Equipment Average Price by Region (2018-2029)
 - 1.3.4 North America Semiconductor Inspection and Metrology Equipment Production (2018-2029)
 - 1.3.5 Europe Semiconductor Inspection and Metrology Equipment Production (2018-2029)
 - 1.3.6 China Semiconductor Inspection and Metrology Equipment Production (2018-2029)
 - 1.3.7 Japan Semiconductor Inspection and Metrology Equipment Production (2018-2029)
 - 1.3.8 South Korea Semiconductor Inspection and Metrology Equipment Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Semiconductor Inspection and Metrology Equipment Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Semiconductor Inspection and Metrology Equipment Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Semiconductor Inspection and Metrology Equipment Demand (2018-2029)
- 2.2 World Semiconductor Inspection and Metrology Equipment Consumption by Region

2.2.1 World Semiconductor Inspection and Metrology Equipment Consumption by Region (2018-2023)

2.2.2 World Semiconductor Inspection and Metrology Equipment Consumption Forecast by Region (2024-2029)

2.3 United States Semiconductor Inspection and Metrology Equipment Consumption (2018-2029)

2.4 China Semiconductor Inspection and Metrology Equipment Consumption (2018-2029)

2.5 Europe Semiconductor Inspection and Metrology Equipment Consumption (2018-2029)

2.6 Japan Semiconductor Inspection and Metrology Equipment Consumption (2018-2029)

2.7 South Korea Semiconductor Inspection and Metrology Equipment Consumption (2018-2029)

2.8 ASEAN Semiconductor Inspection and Metrology Equipment Consumption (2018-2029)

2.9 India Semiconductor Inspection and Metrology Equipment Consumption (2018-2029)

3 WORLD SEMICONDUCTOR INSPECTION AND METROLOGY EQUIPMENT MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Semiconductor Inspection and Metrology Equipment Production Value by Manufacturer (2018-2023)

3.2 World Semiconductor Inspection and Metrology Equipment Production by Manufacturer (2018-2023)

3.3 World Semiconductor Inspection and Metrology Equipment Average Price by Manufacturer (2018-2023)

3.4 Semiconductor Inspection and Metrology Equipment Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Semiconductor Inspection and Metrology Equipment Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Semiconductor Inspection and Metrology Equipment in 2022

3.5.3 Global Concentration Ratios (CR8) for Semiconductor Inspection and Metrology Equipment in 2022

3.6 Semiconductor Inspection and Metrology Equipment Market: Overall Company Footprint Analysis

3.6.1 Semiconductor Inspection and Metrology Equipment Market: Region Footprint

3.6.2 Semiconductor Inspection and Metrology Equipment Market: Company Product Type Footprint

3.6.3 Semiconductor Inspection and Metrology Equipment Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Semiconductor Inspection and Metrology Equipment Production Value Comparison

4.1.1 United States VS China: Semiconductor Inspection and Metrology Equipment Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Semiconductor Inspection and Metrology Equipment Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Semiconductor Inspection and Metrology Equipment Production Comparison

4.2.1 United States VS China: Semiconductor Inspection and Metrology Equipment Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Semiconductor Inspection and Metrology Equipment Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Semiconductor Inspection and Metrology Equipment Consumption Comparison

4.3.1 United States VS China: Semiconductor Inspection and Metrology Equipment Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Semiconductor Inspection and Metrology Equipment Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Semiconductor Inspection and Metrology Equipment Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Semiconductor Inspection and Metrology Equipment Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Value (2018-2023)

4.4.3 United States Based Manufacturers Semiconductor Inspection and Metrology Equipment Production (2018-2023)

4.5 China Based Semiconductor Inspection and Metrology Equipment Manufacturers and Market Share

4.5.1 China Based Semiconductor Inspection and Metrology Equipment Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Value (2018-2023)

4.5.3 China Based Manufacturers Semiconductor Inspection and Metrology Equipment Production (2018-2023)

4.6 Rest of World Based Semiconductor Inspection and Metrology Equipment Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Semiconductor Inspection and Metrology Equipment Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Semiconductor Inspection and Metrology Equipment Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Semiconductor Inspection and Metrology Equipment Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Inspection Equipment

5.2.2 Metrology Equipment

5.3 Market Segment by Type

5.3.1 World Semiconductor Inspection and Metrology Equipment Production by Type (2018-2029)

5.3.2 World Semiconductor Inspection and Metrology Equipment Production Value by Type (2018-2029)

5.3.3 World Semiconductor Inspection and Metrology Equipment Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Semiconductor Inspection and Metrology Equipment Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 8 Inch Wafer

6.2.2 12-Inch Wafer

6.2.3 Others

6.3 Market Segment by Application

6.3.1 World Semiconductor Inspection and Metrology Equipment Production by Application (2018-2029)

6.3.2 World Semiconductor Inspection and Metrology Equipment Production Value by Application (2018-2029)

6.3.3 World Semiconductor Inspection and Metrology Equipment Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 KLA Corporation

7.1.1 KLA Corporation Details

7.1.2 KLA Corporation Major Business

7.1.3 KLA Corporation Semiconductor Inspection and Metrology Equipment Product and Services

7.1.4 KLA Corporation Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 KLA Corporation Recent Developments/Updates

7.1.6 KLA Corporation Competitive Strengths & Weaknesses

7.2 Applied Materials

7.2.1 Applied Materials Details

7.2.2 Applied Materials Major Business

7.2.3 Applied Materials Semiconductor Inspection and Metrology Equipment Product and Services

7.2.4 Applied Materials Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Applied Materials Recent Developments/Updates

7.2.6 Applied Materials Competitive Strengths & Weaknesses

7.3 Hitachi High-Tech

7.3.1 Hitachi High-Tech Details

7.3.2 Hitachi High-Tech Major Business

7.3.3 Hitachi High-Tech Semiconductor Inspection and Metrology Equipment Product and Services

7.3.4 Hitachi High-Tech Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Hitachi High-Tech Recent Developments/Updates

7.3.6 Hitachi High-Tech Competitive Strengths & Weaknesses

7.4 NanoSystem Solutions

- 7.4.1 NanoSystem Solutions Details
- 7.4.2 NanoSystem Solutions Major Business
- 7.4.3 NanoSystem Solutions Semiconductor Inspection and Metrology Equipment Product and Services
- 7.4.4 NanoSystem Solutions Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.4.5 NanoSystem Solutions Recent Developments/Updates
- 7.4.6 NanoSystem Solutions Competitive Strengths & Weaknesses
- 7.5 Onto Innovation
 - 7.5.1 Onto Innovation Details
 - 7.5.2 Onto Innovation Major Business
 - 7.5.3 Onto Innovation Semiconductor Inspection and Metrology Equipment Product and Services
 - 7.5.4 Onto Innovation Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.5.5 Onto Innovation Recent Developments/Updates
 - 7.5.6 Onto Innovation Competitive Strengths & Weaknesses
- 7.6 Camtek
 - 7.6.1 Camtek Details
 - 7.6.2 Camtek Major Business
 - 7.6.3 Camtek Semiconductor Inspection and Metrology Equipment Product and Services
 - 7.6.4 Camtek Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.6.5 Camtek Recent Developments/Updates
 - 7.6.6 Camtek Competitive Strengths & Weaknesses
- 7.7 Park System
 - 7.7.1 Park System Details
 - 7.7.2 Park System Major Business
 - 7.7.3 Park System Semiconductor Inspection and Metrology Equipment Product and Services
 - 7.7.4 Park System Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.7.5 Park System Recent Developments/Updates
 - 7.7.6 Park System Competitive Strengths & Weaknesses
- 7.8 ASML
 - 7.8.1 ASML Details
 - 7.8.2 ASML Major Business
 - 7.8.3 ASML Semiconductor Inspection and Metrology Equipment Product and

Services

7.8.4 ASML Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.8.5 ASML Recent Developments/Updates

7.8.6 ASML Competitive Strengths & Weaknesses

7.9 ZEISS

7.9.1 ZEISS Details

7.9.2 ZEISS Major Business

7.9.3 ZEISS Semiconductor Inspection and Metrology Equipment Product and Services

7.9.4 ZEISS Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.9.5 ZEISS Recent Developments/Updates

7.9.6 ZEISS Competitive Strengths & Weaknesses

7.10 Microtronic

7.10.1 Microtronic Details

7.10.2 Microtronic Major Business

7.10.3 Microtronic Semiconductor Inspection and Metrology Equipment Product and Services

7.10.4 Microtronic Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.10.5 Microtronic Recent Developments/Updates

7.10.6 Microtronic Competitive Strengths & Weaknesses

7.11 Lasertec

7.11.1 Lasertec Details

7.11.2 Lasertec Major Business

7.11.3 Lasertec Semiconductor Inspection and Metrology Equipment Product and Services

7.11.4 Lasertec Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.11.5 Lasertec Recent Developments/Updates

7.11.6 Lasertec Competitive Strengths & Weaknesses

7.12 Toray Engineering

7.12.1 Toray Engineering Details

7.12.2 Toray Engineering Major Business

7.12.3 Toray Engineering Semiconductor Inspection and Metrology Equipment Product and Services

7.12.4 Toray Engineering Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

- 7.12.5 Toray Engineering Recent Developments/Updates
- 7.12.6 Toray Engineering Competitive Strengths & Weaknesses
- 7.13 Muetec
 - 7.13.1 Muetec Details
 - 7.13.2 Muetec Major Business
 - 7.13.3 Muetec Semiconductor Inspection and Metrology Equipment Product and Services
 - 7.13.4 Muetec Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.13.5 Muetec Recent Developments/Updates
 - 7.13.6 Muetec Competitive Strengths & Weaknesses
- 7.14 UnitySC
 - 7.14.1 UnitySC Details
 - 7.14.2 UnitySC Major Business
 - 7.14.3 UnitySC Semiconductor Inspection and Metrology Equipment Product and Services
 - 7.14.4 UnitySC Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.14.5 UnitySC Recent Developments/Updates
 - 7.14.6 UnitySC Competitive Strengths & Weaknesses
- 7.15 Takano Corporation
 - 7.15.1 Takano Corporation Details
 - 7.15.2 Takano Corporation Major Business
 - 7.15.3 Takano Corporation Semiconductor Inspection and Metrology Equipment Product and Services
 - 7.15.4 Takano Corporation Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.15.5 Takano Corporation Recent Developments/Updates
 - 7.15.6 Takano Corporation Competitive Strengths & Weaknesses
- 7.16 Wuhan Jingce Electronic Group
 - 7.16.1 Wuhan Jingce Electronic Group Details
 - 7.16.2 Wuhan Jingce Electronic Group Major Business
 - 7.16.3 Wuhan Jingce Electronic Group Semiconductor Inspection and Metrology Equipment Product and Services
 - 7.16.4 Wuhan Jingce Electronic Group Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.16.5 Wuhan Jingce Electronic Group Recent Developments/Updates
 - 7.16.6 Wuhan Jingce Electronic Group Competitive Strengths & Weaknesses
- 7.17 Shenzhen Nanolighting Technology

- 7.17.1 Shenzhen Nanolighting Technology Details
- 7.17.2 Shenzhen Nanolighting Technology Major Business
- 7.17.3 Shenzhen Nanolighting Technology Semiconductor Inspection and Metrology Equipment Product and Services
- 7.17.4 Shenzhen Nanolighting Technology Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.17.5 Shenzhen Nanolighting Technology Recent Developments/Updates
- 7.17.6 Shenzhen Nanolighting Technology Competitive Strengths & Weaknesses
- 7.18 Zhongdao Optoelectronic Equipment
- 7.18.1 Zhongdao Optoelectronic Equipment Details
- 7.18.2 Zhongdao Optoelectronic Equipment Major Business
- 7.18.3 Zhongdao Optoelectronic Equipment Semiconductor Inspection and Metrology Equipment Product and Services
- 7.18.4 Zhongdao Optoelectronic Equipment Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.18.5 Zhongdao Optoelectronic Equipment Recent Developments/Updates
- 7.18.6 Zhongdao Optoelectronic Equipment Competitive Strengths & Weaknesses
- 7.19 RSIC scientific instrument
- 7.19.1 RSIC scientific instrument Details
- 7.19.2 RSIC scientific instrument Major Business
- 7.19.3 RSIC scientific instrument Semiconductor Inspection and Metrology Equipment Product and Services
- 7.19.4 RSIC scientific instrument Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.19.5 RSIC scientific instrument Recent Developments/Updates
- 7.19.6 RSIC scientific instrument Competitive Strengths & Weaknesses
- 7.20 Suzhou Secote Precision Electronic
- 7.20.1 Suzhou Secote Precision Electronic Details
- 7.20.2 Suzhou Secote Precision Electronic Major Business
- 7.20.3 Suzhou Secote Precision Electronic Semiconductor Inspection and Metrology Equipment Product and Services
- 7.20.4 Suzhou Secote Precision Electronic Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.20.5 Suzhou Secote Precision Electronic Recent Developments/Updates
- 7.20.6 Suzhou Secote Precision Electronic Competitive Strengths & Weaknesses
- 7.21 Dongfang Jingyuan Electron
- 7.21.1 Dongfang Jingyuan Electron Details
- 7.21.2 Dongfang Jingyuan Electron Major Business
- 7.21.3 Dongfang Jingyuan Electron Semiconductor Inspection and Metrology

Equipment Product and Services

7.21.4 Dongfang Jingyuan Electron Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.21.5 Dongfang Jingyuan Electron Recent Developments/Updates

7.21.6 Dongfang Jingyuan Electron Competitive Strengths & Weaknesses

7.22 Yuwei Semiconductor Technology

7.22.1 Yuwei Semiconductor Technology Details

7.22.2 Yuwei Semiconductor Technology Major Business

7.22.3 Yuwei Semiconductor Technology Semiconductor Inspection and Metrology

Equipment Product and Services

7.22.4 Yuwei Semiconductor Technology Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.22.5 Yuwei Semiconductor Technology Recent Developments/Updates

7.22.6 Yuwei Semiconductor Technology Competitive Strengths & Weaknesses

7.23 Shenzhen Angstrom Excellence Technology

7.23.1 Shenzhen Angstrom Excellence Technology Details

7.23.2 Shenzhen Angstrom Excellence Technology Major Business

7.23.3 Shenzhen Angstrom Excellence Technology Semiconductor Inspection and Metrology Equipment Product and Services

7.23.4 Shenzhen Angstrom Excellence Technology Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.23.5 Shenzhen Angstrom Excellence Technology Recent Developments/Updates

7.23.6 Shenzhen Angstrom Excellence Technology Competitive Strengths & Weaknesses

7.24 Nanjing Zhongan Semiconductor Equipment

7.24.1 Nanjing Zhongan Semiconductor Equipment Details

7.24.2 Nanjing Zhongan Semiconductor Equipment Major Business

7.24.3 Nanjing Zhongan Semiconductor Equipment Semiconductor Inspection and Metrology Equipment Product and Services

7.24.4 Nanjing Zhongan Semiconductor Equipment Semiconductor Inspection and Metrology Equipment Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.24.5 Nanjing Zhongan Semiconductor Equipment Recent Developments/Updates

7.24.6 Nanjing Zhongan Semiconductor Equipment Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Semiconductor Inspection and Metrology Equipment Industry Chain
- 8.2 Semiconductor Inspection and Metrology Equipment Upstream Analysis
 - 8.2.1 Semiconductor Inspection and Metrology Equipment Core Raw Materials
 - 8.2.2 Main Manufacturers of Semiconductor Inspection and Metrology Equipment Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Semiconductor Inspection and Metrology Equipment Production Mode
- 8.6 Semiconductor Inspection and Metrology Equipment Procurement Model
- 8.7 Semiconductor Inspection and Metrology Equipment Industry Sales Model and Sales Channels
 - 8.7.1 Semiconductor Inspection and Metrology Equipment Sales Model
 - 8.7.2 Semiconductor Inspection and Metrology Equipment Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Semiconductor Inspection and Metrology Equipment Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Semiconductor Inspection and Metrology Equipment Production Value by Region (2018-2023) & (USD Million)

Table 3. World Semiconductor Inspection and Metrology Equipment Production Value by Region (2024-2029) & (USD Million)

Table 4. World Semiconductor Inspection and Metrology Equipment Production Value Market Share by Region (2018-2023)

Table 5. World Semiconductor Inspection and Metrology Equipment Production Value Market Share by Region (2024-2029)

Table 6. World Semiconductor Inspection and Metrology Equipment Production by Region (2018-2023) & (Units)

Table 7. World Semiconductor Inspection and Metrology Equipment Production by Region (2024-2029) & (Units)

Table 8. World Semiconductor Inspection and Metrology Equipment Production Market Share by Region (2018-2023)

Table 9. World Semiconductor Inspection and Metrology Equipment Production Market Share by Region (2024-2029)

Table 10. World Semiconductor Inspection and Metrology Equipment Average Price by Region (2018-2023) & (K US\$/Unit)

Table 11. World Semiconductor Inspection and Metrology Equipment Average Price by Region (2024-2029) & (K US\$/Unit)

Table 12. Semiconductor Inspection and Metrology Equipment Major Market Trends

Table 13. World Semiconductor Inspection and Metrology Equipment Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Units)

Table 14. World Semiconductor Inspection and Metrology Equipment Consumption by Region (2018-2023) & (Units)

Table 15. World Semiconductor Inspection and Metrology Equipment Consumption Forecast by Region (2024-2029) & (Units)

Table 16. World Semiconductor Inspection and Metrology Equipment Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Semiconductor Inspection and Metrology Equipment Producers in 2022

Table 18. World Semiconductor Inspection and Metrology Equipment Production by Manufacturer (2018-2023) & (Units)

Table 19. Production Market Share of Key Semiconductor Inspection and Metrology Equipment Producers in 2022

Table 20. World Semiconductor Inspection and Metrology Equipment Average Price by Manufacturer (2018-2023) & (K US\$/Unit)

Table 21. Global Semiconductor Inspection and Metrology Equipment Company Evaluation Quadrant

Table 22. World Semiconductor Inspection and Metrology Equipment Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Semiconductor Inspection and Metrology Equipment Production Site of Key Manufacturer

Table 24. Semiconductor Inspection and Metrology Equipment Market: Company Product Type Footprint

Table 25. Semiconductor Inspection and Metrology Equipment Market: Company Product Application Footprint

Table 26. Semiconductor Inspection and Metrology Equipment Competitive Factors

Table 27. Semiconductor Inspection and Metrology Equipment New Entrant and Capacity Expansion Plans

Table 28. Semiconductor Inspection and Metrology Equipment Mergers & Acquisitions Activity

Table 29. United States VS China Semiconductor Inspection and Metrology Equipment Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Semiconductor Inspection and Metrology Equipment Production Comparison, (2018 & 2022 & 2029) & (Units)

Table 31. United States VS China Semiconductor Inspection and Metrology Equipment Consumption Comparison, (2018 & 2022 & 2029) & (Units)

Table 32. United States Based Semiconductor Inspection and Metrology Equipment Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Semiconductor Inspection and Metrology Equipment Production (2018-2023) & (Units)

Table 36. United States Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Market Share (2018-2023)

Table 37. China Based Semiconductor Inspection and Metrology Equipment Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Value, (2018-2023) & (USD Million)

- Table 39. China Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Value Market Share (2018-2023)
- Table 40. China Based Manufacturers Semiconductor Inspection and Metrology Equipment Production (2018-2023) & (Units)
- Table 41. China Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Market Share (2018-2023)
- Table 42. Rest of World Based Semiconductor Inspection and Metrology Equipment Manufacturers, Headquarters and Production Site (States, Country)
- Table 43. Rest of World Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Value, (2018-2023) & (USD Million)
- Table 44. Rest of World Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Value Market Share (2018-2023)
- Table 45. Rest of World Based Manufacturers Semiconductor Inspection and Metrology Equipment Production (2018-2023) & (Units)
- Table 46. Rest of World Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Market Share (2018-2023)
- Table 47. World Semiconductor Inspection and Metrology Equipment Production Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 48. World Semiconductor Inspection and Metrology Equipment Production by Type (2018-2023) & (Units)
- Table 49. World Semiconductor Inspection and Metrology Equipment Production by Type (2024-2029) & (Units)
- Table 50. World Semiconductor Inspection and Metrology Equipment Production Value by Type (2018-2023) & (USD Million)
- Table 51. World Semiconductor Inspection and Metrology Equipment Production Value by Type (2024-2029) & (USD Million)
- Table 52. World Semiconductor Inspection and Metrology Equipment Average Price by Type (2018-2023) & (K US\$/Unit)
- Table 53. World Semiconductor Inspection and Metrology Equipment Average Price by Type (2024-2029) & (K US\$/Unit)
- Table 54. World Semiconductor Inspection and Metrology Equipment Production Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 55. World Semiconductor Inspection and Metrology Equipment Production by Application (2018-2023) & (Units)
- Table 56. World Semiconductor Inspection and Metrology Equipment Production by Application (2024-2029) & (Units)
- Table 57. World Semiconductor Inspection and Metrology Equipment Production Value by Application (2018-2023) & (USD Million)
- Table 58. World Semiconductor Inspection and Metrology Equipment Production Value

by Application (2024-2029) & (USD Million)

Table 59. World Semiconductor Inspection and Metrology Equipment Average Price by Application (2018-2023) & (K US\$/Unit)

Table 60. World Semiconductor Inspection and Metrology Equipment Average Price by Application (2024-2029) & (K US\$/Unit)

Table 61. KLA Corporation Basic Information, Manufacturing Base and Competitors

Table 62. KLA Corporation Major Business

Table 63. KLA Corporation Semiconductor Inspection and Metrology Equipment Product and Services

Table 64. KLA Corporation Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. KLA Corporation Recent Developments/Updates

Table 66. KLA Corporation Competitive Strengths & Weaknesses

Table 67. Applied Materials Basic Information, Manufacturing Base and Competitors

Table 68. Applied Materials Major Business

Table 69. Applied Materials Semiconductor Inspection and Metrology Equipment Product and Services

Table 70. Applied Materials Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Applied Materials Recent Developments/Updates

Table 72. Applied Materials Competitive Strengths & Weaknesses

Table 73. Hitachi High-Tech Basic Information, Manufacturing Base and Competitors

Table 74. Hitachi High-Tech Major Business

Table 75. Hitachi High-Tech Semiconductor Inspection and Metrology Equipment Product and Services

Table 76. Hitachi High-Tech Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Hitachi High-Tech Recent Developments/Updates

Table 78. Hitachi High-Tech Competitive Strengths & Weaknesses

Table 79. NanoSystem Solutions Basic Information, Manufacturing Base and Competitors

Table 80. NanoSystem Solutions Major Business

Table 81. NanoSystem Solutions Semiconductor Inspection and Metrology Equipment Product and Services

Table 82. NanoSystem Solutions Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2018-2023)

Table 83. NanoSystem Solutions Recent Developments/Updates

Table 84. NanoSystem Solutions Competitive Strengths & Weaknesses

Table 85. Onto Innovation Basic Information, Manufacturing Base and Competitors

Table 86. Onto Innovation Major Business

Table 87. Onto Innovation Semiconductor Inspection and Metrology Equipment Product and Services

Table 88. Onto Innovation Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Onto Innovation Recent Developments/Updates

Table 90. Onto Innovation Competitive Strengths & Weaknesses

Table 91. Camtek Basic Information, Manufacturing Base and Competitors

Table 92. Camtek Major Business

Table 93. Camtek Semiconductor Inspection and Metrology Equipment Product and Services

Table 94. Camtek Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Camtek Recent Developments/Updates

Table 96. Camtek Competitive Strengths & Weaknesses

Table 97. Park System Basic Information, Manufacturing Base and Competitors

Table 98. Park System Major Business

Table 99. Park System Semiconductor Inspection and Metrology Equipment Product and Services

Table 100. Park System Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. Park System Recent Developments/Updates

Table 102. Park System Competitive Strengths & Weaknesses

Table 103. ASML Basic Information, Manufacturing Base and Competitors

Table 104. ASML Major Business

Table 105. ASML Semiconductor Inspection and Metrology Equipment Product and Services

Table 106. ASML Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. ASML Recent Developments/Updates

Table 108. ASML Competitive Strengths & Weaknesses

- Table 109. ZEISS Basic Information, Manufacturing Base and Competitors
- Table 110. ZEISS Major Business
- Table 111. ZEISS Semiconductor Inspection and Metrology Equipment Product and Services
- Table 112. ZEISS Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 113. ZEISS Recent Developments/Updates
- Table 114. ZEISS Competitive Strengths & Weaknesses
- Table 115. Microtronic Basic Information, Manufacturing Base and Competitors
- Table 116. Microtronic Major Business
- Table 117. Microtronic Semiconductor Inspection and Metrology Equipment Product and Services
- Table 118. Microtronic Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 119. Microtronic Recent Developments/Updates
- Table 120. Microtronic Competitive Strengths & Weaknesses
- Table 121. Lasertec Basic Information, Manufacturing Base and Competitors
- Table 122. Lasertec Major Business
- Table 123. Lasertec Semiconductor Inspection and Metrology Equipment Product and Services
- Table 124. Lasertec Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 125. Lasertec Recent Developments/Updates
- Table 126. Lasertec Competitive Strengths & Weaknesses
- Table 127. Toray Engineering Basic Information, Manufacturing Base and Competitors
- Table 128. Toray Engineering Major Business
- Table 129. Toray Engineering Semiconductor Inspection and Metrology Equipment Product and Services
- Table 130. Toray Engineering Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 131. Toray Engineering Recent Developments/Updates
- Table 132. Toray Engineering Competitive Strengths & Weaknesses
- Table 133. Muetec Basic Information, Manufacturing Base and Competitors
- Table 134. Muetec Major Business
- Table 135. Muetec Semiconductor Inspection and Metrology Equipment Product and

Services

Table 136. Muetec Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. Muetec Recent Developments/Updates

Table 138. Muetec Competitive Strengths & Weaknesses

Table 139. UnitySC Basic Information, Manufacturing Base and Competitors

Table 140. UnitySC Major Business

Table 141. UnitySC Semiconductor Inspection and Metrology Equipment Product and Services

Table 142. UnitySC Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. UnitySC Recent Developments/Updates

Table 144. UnitySC Competitive Strengths & Weaknesses

Table 145. Takano Corporation Basic Information, Manufacturing Base and Competitors

Table 146. Takano Corporation Major Business

Table 147. Takano Corporation Semiconductor Inspection and Metrology Equipment Product and Services

Table 148. Takano Corporation Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 149. Takano Corporation Recent Developments/Updates

Table 150. Takano Corporation Competitive Strengths & Weaknesses

Table 151. Wuhan Jingce Electronic Group Basic Information, Manufacturing Base and Competitors

Table 152. Wuhan Jingce Electronic Group Major Business

Table 153. Wuhan Jingce Electronic Group Semiconductor Inspection and Metrology Equipment Product and Services

Table 154. Wuhan Jingce Electronic Group Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 155. Wuhan Jingce Electronic Group Recent Developments/Updates

Table 156. Wuhan Jingce Electronic Group Competitive Strengths & Weaknesses

Table 157. Shenzhen Nanolighting Technology Basic Information, Manufacturing Base and Competitors

Table 158. Shenzhen Nanolighting Technology Major Business

Table 159. Shenzhen Nanolighting Technology Semiconductor Inspection and Metrology Equipment Product and Services

Table 160. Shenzhen Nanolighting Technology Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 161. Shenzhen Nanolighting Technology Recent Developments/Updates

Table 162. Shenzhen Nanolighting Technology Competitive Strengths & Weaknesses

Table 163. Zhongdao Optoelectronic Equipment Basic Information, Manufacturing Base and Competitors

Table 164. Zhongdao Optoelectronic Equipment Major Business

Table 165. Zhongdao Optoelectronic Equipment Semiconductor Inspection and Metrology Equipment Product and Services

Table 166. Zhongdao Optoelectronic Equipment Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 167. Zhongdao Optoelectronic Equipment Recent Developments/Updates

Table 168. Zhongdao Optoelectronic Equipment Competitive Strengths & Weaknesses

Table 169. RSIC scientific instrument Basic Information, Manufacturing Base and Competitors

Table 170. RSIC scientific instrument Major Business

Table 171. RSIC scientific instrument Semiconductor Inspection and Metrology Equipment Product and Services

Table 172. RSIC scientific instrument Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 173. RSIC scientific instrument Recent Developments/Updates

Table 174. RSIC scientific instrument Competitive Strengths & Weaknesses

Table 175. Suzhou Secote Precision Electronic Basic Information, Manufacturing Base and Competitors

Table 176. Suzhou Secote Precision Electronic Major Business

Table 177. Suzhou Secote Precision Electronic Semiconductor Inspection and Metrology Equipment Product and Services

Table 178. Suzhou Secote Precision Electronic Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 179. Suzhou Secote Precision Electronic Recent Developments/Updates

Table 180. Suzhou Secote Precision Electronic Competitive Strengths & Weaknesses

Table 181. Dongfang Jingyuan Electron Basic Information, Manufacturing Base and Competitors

Table 182. Dongfang Jingyuan Electron Major Business

Table 183. Dongfang Jingyuan Electron Semiconductor Inspection and Metrology

Equipment Product and Services

Table 184. Dongfang Jingyuan Electron Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 185. Dongfang Jingyuan Electron Recent Developments/Updates

Table 186. Dongfang Jingyuan Electron Competitive Strengths & Weaknesses

Table 187. Yuwei Semiconductor Technology Basic Information, Manufacturing Base and Competitors

Table 188. Yuwei Semiconductor Technology Major Business

Table 189. Yuwei Semiconductor Technology Semiconductor Inspection and Metrology Equipment Product and Services

Table 190. Yuwei Semiconductor Technology Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 191. Yuwei Semiconductor Technology Recent Developments/Updates

Table 192. Yuwei Semiconductor Technology Competitive Strengths & Weaknesses

Table 193. Shenzhen Angstrom Excellence Technology Basic Information, Manufacturing Base and Competitors

Table 194. Shenzhen Angstrom Excellence Technology Major Business

Table 195. Shenzhen Angstrom Excellence Technology Semiconductor Inspection and Metrology Equipment Product and Services

Table 196. Shenzhen Angstrom Excellence Technology Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 197. Shenzhen Angstrom Excellence Technology Recent Developments/Updates

Table 198. Nanjing Zhongan Semiconductor Equipment Basic Information, Manufacturing Base and Competitors

Table 199. Nanjing Zhongan Semiconductor Equipment Major Business

Table 200. Nanjing Zhongan Semiconductor Equipment Semiconductor Inspection and Metrology Equipment Product and Services

Table 201. Nanjing Zhongan Semiconductor Equipment Semiconductor Inspection and Metrology Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 202. Global Key Players of Semiconductor Inspection and Metrology Equipment Upstream (Raw Materials)

Table 203. Semiconductor Inspection and Metrology Equipment Typical Customers

Table 204. Semiconductor Inspection and Metrology Equipment Typical Distributors
List of Figure

Figure 1. Semiconductor Inspection and Metrology Equipment Picture

Figure 2. World Semiconductor Inspection and Metrology Equipment Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Semiconductor Inspection and Metrology Equipment Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Semiconductor Inspection and Metrology Equipment Production (2018-2029) & (Units)

Figure 5. World Semiconductor Inspection and Metrology Equipment Average Price (2018-2029) & (K US\$/Unit)

Figure 6. World Semiconductor Inspection and Metrology Equipment Production Value Market Share by Region (2018-2029)

Figure 7. World Semiconductor Inspection and Metrology Equipment Production Market Share by Region (2018-2029)

Figure 8. North America Semiconductor Inspection and Metrology Equipment Production (2018-2029) & (Units)

Figure 9. Europe Semiconductor Inspection and Metrology Equipment Production (2018-2029) & (Units)

Figure 10. China Semiconductor Inspection and Metrology Equipment Production (2018-2029) & (Units)

Figure 11. Japan Semiconductor Inspection and Metrology Equipment Production (2018-2029) & (Units)

Figure 12. South Korea Semiconductor Inspection and Metrology Equipment Production (2018-2029) & (Units)

Figure 13. Semiconductor Inspection and Metrology Equipment Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Semiconductor Inspection and Metrology Equipment Consumption (2018-2029) & (Units)

Figure 16. World Semiconductor Inspection and Metrology Equipment Consumption Market Share by Region (2018-2029)

Figure 17. United States Semiconductor Inspection and Metrology Equipment Consumption (2018-2029) & (Units)

Figure 18. China Semiconductor Inspection and Metrology Equipment Consumption (2018-2029) & (Units)

Figure 19. Europe Semiconductor Inspection and Metrology Equipment Consumption (2018-2029) & (Units)

Figure 20. Japan Semiconductor Inspection and Metrology Equipment Consumption (2018-2029) & (Units)

Figure 21. South Korea Semiconductor Inspection and Metrology Equipment Consumption (2018-2029) & (Units)

Figure 22. ASEAN Semiconductor Inspection and Metrology Equipment Consumption

(2018-2029) & (Units)

Figure 23. India Semiconductor Inspection and Metrology Equipment Consumption (2018-2029) & (Units)

Figure 24. Producer Shipments of Semiconductor Inspection and Metrology Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 25. Global Four-firm Concentration Ratios (CR4) for Semiconductor Inspection and Metrology Equipment Markets in 2022

Figure 26. Global Four-firm Concentration Ratios (CR8) for Semiconductor Inspection and Metrology Equipment Markets in 2022

Figure 27. United States VS China: Semiconductor Inspection and Metrology Equipment Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Semiconductor Inspection and Metrology Equipment Production Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States VS China: Semiconductor Inspection and Metrology Equipment Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 30. United States Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Market Share 2022

Figure 31. China Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Market Share 2022

Figure 32. Rest of World Based Manufacturers Semiconductor Inspection and Metrology Equipment Production Market Share 2022

Figure 33. World Semiconductor Inspection and Metrology Equipment Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 34. World Semiconductor Inspection and Metrology Equipment Production Value Market Share by Type in 2022

Figure 35. Inspection Equipment

Figure 36. Metrology Equipment

Figure 37. World Semiconductor Inspection and Metrology Equipment Production Market Share by Type (2018-2029)

Figure 38. World Semiconductor Inspection and Metrology Equipment Production Value Market Share by Type (2018-2029)

Figure 39. World Semiconductor Inspection and Metrology Equipment Average Price by Type (2018-2029) & (K US\$/Unit)

Figure 40. World Semiconductor Inspection and Metrology Equipment Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 41. World Semiconductor Inspection and Metrology Equipment Production Value Market Share by Application in 2022

Figure 42. 8 Inch Wafer

Figure 43. 12-Inch Wafer

Figure 44. Others

Figure 45. World Semiconductor Inspection and Metrology Equipment Production Market Share by Application (2018-2029)

Figure 46. World Semiconductor Inspection and Metrology Equipment Production Value Market Share by Application (2018-2029)

Figure 47. World Semiconductor Inspection and Metrology Equipment Average Price by Application (2018-2029) & (K US\$/Unit)

Figure 48. Semiconductor Inspection and Metrology Equipment Industry Chain

Figure 49. Semiconductor Inspection and Metrology Equipment Procurement Model

Figure 50. Semiconductor Inspection and Metrology Equipment Sales Model

Figure 51. Semiconductor Inspection and Metrology Equipment Sales Channels, Direct Sales, and Distribution

Figure 52. Methodology

Figure 53. Research Process and Data Source

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