

# Global Photo Mask Inspection Equipment Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Photo Mask Inspection Equipment market size is expected to reach \$ 3982 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

In 2025, the global production of Photo Mask Inspection Equipment will reach 310 units, with an average selling price of 6.4 million US dollars per unit. 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. Semiconductor devices are manufactured using photomasks, which serve as the source of original patterns for integrated circuits.

### 1. Demand-Driven: High-Resolution Masks and the AI Chip Boom

As global demand for advanced process chips (sub-7nm) explodes, particularly with the growth of AI compute chips and high-resolution display (FPD) mask markets, the technical requirements for mask inspection equipment are continually being upgraded.

**AI Compute Chips:** AI server chips require extremely high mask precision, driving the demand for high-resolution mask inspection equipment.

**High-Resolution Displays:** The demand for mask resolution for 4K/8K displays continues to pull the market.

### 2. Technological Iteration: From EUV Masks to Curved Masks

With the development of high-NA EUV lithography technology, mask inspection

equipment is facing both breakthroughs and challenges.

**Curved Masks:** High-end mask manufacturers are transitioning to curved masks to accommodate higher lithography resolution.

**High-NA EUV:** Mask inspection for high-NA EUV is becoming a new technological focus.

### 3. Regional Growth: Accelerated Localization in the Asia-Pacific (Especially China)

With changes in geopolitical factors and supply chain security needs, the Asia-Pacific region (especially China) is accelerating the localization of mask inspection equipment.

**Domestic Substitution:** The domesticization rate of semiconductor mask blanks in China remains relatively low, but under policy-driven initiatives, the market share of domestically produced mask inspection equipment is expected to grow rapidly.

**Market Scale:** The Asia-Pacific region holds a large share in the mask inspection market, remaining the world's largest consumer market.

### 4. Intelligent Upgrade: Integration of AI and Automation

To cope with increasingly complex inspection tasks, the industry is accelerating its transformation towards intelligence.

**AI Applications:** AI technology is widely used for defect discrimination, image analysis, and data mining to improve inspection accuracy and efficiency.

**Automation:** Equipment is moving towards full-process automation, covering comprehensive coverage from pre-process to post-process.

This report studies the global Photo Mask Inspection Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photo Mask Inspection Equipment and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Photo Mask Inspection Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photo Mask Inspection Equipment total production and demand, 2021-2032, (Units)

Global Photo Mask Inspection Equipment total production value, 2021-2032, (USD Million)

Global Photo Mask Inspection Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Photo Mask Inspection Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

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

Global Photo Mask Inspection Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Photo Mask Inspection Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Photo Mask Inspection Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Photo Mask Inspection 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<sup>US</sup>, Applied Materials<sup>US</sup>, Lasertec<sup>JP</sup>, NuFlare<sup>JP</sup>, Carl Zeiss AG<sup>DE</sup>, Advantest<sup>JP</sup>, Visionoptech<sup>CN</sup>, 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 Photo Mask Inspection 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

## Global Photo Mask Inspection Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Photo Mask Inspection Equipment Market, Segmentation by Type:

Photomask Inspection Equipment

Photomask Substrate Inspection Equipment

## Global Photo Mask Inspection Equipment Market, Segmentation by Application:

Semiconductor IC/Chip Manufacturer

Photomask Factory

Substrate Manufacturer

## Companies Profiled:

KLA?US?

Applied Materials?US?

Lasertec?JP?

NuFlare?JP?

Carl Zeiss AG?DE?

Advantest?JP?

Visionoptech?CN?

**Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Photo Mask Inspection Equipment Introduction
- 1.2 World Photo Mask Inspection Equipment Supply & Forecast
  - 1.2.1 World Photo Mask Inspection Equipment Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Photo Mask Inspection Equipment Production (2021-2032)
  - 1.2.3 World Photo Mask Inspection Equipment Pricing Trends (2021-2032)
- 1.3 World Photo Mask Inspection Equipment Production by Region (Based on Production Site)
  - 1.3.1 World Photo Mask Inspection Equipment Production Value by Region (2021-2032)
  - 1.3.2 World Photo Mask Inspection Equipment Production by Region (2021-2032)
  - 1.3.3 World Photo Mask Inspection Equipment Average Price by Region (2021-2032)
  - 1.3.4 North America Photo Mask Inspection Equipment Production (2021-2032)
  - 1.3.5 Europe Photo Mask Inspection Equipment Production (2021-2032)
  - 1.3.6 China Photo Mask Inspection Equipment Production (2021-2032)
  - 1.3.7 Japan Photo Mask Inspection Equipment Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Photo Mask Inspection Equipment Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Photo Mask Inspection Equipment Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Photo Mask Inspection Equipment Demand (2021-2032)
- 2.2 World Photo Mask Inspection Equipment Consumption by Region
  - 2.2.1 World Photo Mask Inspection Equipment Consumption by Region (2021-2026)
  - 2.2.2 World Photo Mask Inspection Equipment Consumption Forecast by Region (2027-2032)
- 2.3 United States Photo Mask Inspection Equipment Consumption (2021-2032)
- 2.4 China Photo Mask Inspection Equipment Consumption (2021-2032)
- 2.5 Europe Photo Mask Inspection Equipment Consumption (2021-2032)
- 2.6 Japan Photo Mask Inspection Equipment Consumption (2021-2032)
- 2.7 South Korea Photo Mask Inspection Equipment Consumption (2021-2032)
- 2.8 ASEAN Photo Mask Inspection Equipment Consumption (2021-2032)
- 2.9 India Photo Mask Inspection Equipment Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Photo Mask Inspection Equipment Production Value by Manufacturer (2021-2026)
- 3.2 World Photo Mask Inspection Equipment Production by Manufacturer (2021-2026)
- 3.3 World Photo Mask Inspection Equipment Average Price by Manufacturer (2021-2026)
- 3.4 Photo Mask Inspection Equipment Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Photo Mask Inspection Equipment Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Photo Mask Inspection Equipment in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Photo Mask Inspection Equipment in 2025
- 3.6 Photo Mask Inspection Equipment Market: Overall Company Footprint Analysis
  - 3.6.1 Photo Mask Inspection Equipment Market: Region Footprint
  - 3.6.2 Photo Mask Inspection Equipment Market: Company Product Type Footprint
  - 3.6.3 Photo Mask Inspection 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: Photo Mask Inspection Equipment Production Value Comparison
  - 4.1.1 United States VS China: Photo Mask Inspection Equipment Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Photo Mask Inspection Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Photo Mask Inspection Equipment Production Comparison
  - 4.2.1 United States VS China: Photo Mask Inspection Equipment Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Photo Mask Inspection Equipment Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Photo Mask Inspection Equipment Consumption Comparison
  - 4.3.1 United States VS China: Photo Mask Inspection Equipment Consumption Comparison (2021 & 2025 & 2032)



4.3.2 United States VS China: Photo Mask Inspection Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Photo Mask Inspection Equipment Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Photo Mask Inspection Equipment Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Photo Mask Inspection Equipment Production Value (2021-2026)

4.4.3 United States Based Manufacturers Photo Mask Inspection Equipment Production (2021-2026)

4.5 China Based Photo Mask Inspection Equipment Manufacturers and Market Share

4.5.1 China Based Photo Mask Inspection Equipment Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Photo Mask Inspection Equipment Production Value (2021-2026)

4.5.3 China Based Manufacturers Photo Mask Inspection Equipment Production (2021-2026)

4.6 Rest of World Based Photo Mask Inspection Equipment Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Photo Mask Inspection Equipment Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Photo Mask Inspection Equipment Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Photo Mask Inspection Equipment Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Photomask Inspection Equipment

5.2.2 Photomask Substrate Inspection Equipment

5.3 Market Segment by Type

5.3.1 World Photo Mask Inspection Equipment Production by Type (2021-2032)

5.3.2 World Photo Mask Inspection Equipment Production Value by Type (2021-2032)

5.3.3 World Photo Mask Inspection Equipment Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY APPLICATION**



- 6.1 World Photo Mask Inspection Equipment Market Size Overview by Application: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Application
  - 6.2.1 Semiconductor IC/Chip Manufacturer
  - 6.2.2 Photomask Factory
  - 6.2.3 Substrate Manufacturer
- 6.3 Market Segment by Application
  - 6.3.1 World Photo Mask Inspection Equipment Production by Application (2021-2032)
  - 6.3.2 World Photo Mask Inspection Equipment Production Value by Application (2021-2032)
  - 6.3.3 World Photo Mask Inspection Equipment Average Price by Application (2021-2032)

## **7 COMPANY PROFILES**

- 7.1 KLA?US?
  - 7.1.1 KLA?US? Details
  - 7.1.2 KLA?US? Major Business
  - 7.1.3 KLA?US? Photo Mask Inspection Equipment Product and Services
  - 7.1.4 KLA?US? Photo Mask Inspection Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.1.5 KLA?US? Recent Developments/Updates
  - 7.1.6 KLA?US? Competitive Strengths & Weaknesses
- 7.2 Applied Materials?US?
  - 7.2.1 Applied Materials?US? Details
  - 7.2.2 Applied Materials?US? Major Business
  - 7.2.3 Applied Materials?US? Photo Mask Inspection Equipment Product and Services
  - 7.2.4 Applied Materials?US? Photo Mask Inspection Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.2.5 Applied Materials?US? Recent Developments/Updates
  - 7.2.6 Applied Materials?US? Competitive Strengths & Weaknesses
- 7.3 Lasertec?JP?
  - 7.3.1 Lasertec?JP? Details
  - 7.3.2 Lasertec?JP? Major Business
  - 7.3.3 Lasertec?JP? Photo Mask Inspection Equipment Product and Services
  - 7.3.4 Lasertec?JP? Photo Mask Inspection Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.3.5 Lasertec?JP? Recent Developments/Updates

### 7.3.6 Lasertec?JP? Competitive Strengths & Weaknesses

### 7.4 NuFlare?JP?

#### 7.4.1 NuFlare?JP? Details

#### 7.4.2 NuFlare?JP? Major Business

#### 7.4.3 NuFlare?JP? Photo Mask Inspection Equipment Product and Services

#### 7.4.4 NuFlare?JP? Photo Mask Inspection Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.4.5 NuFlare?JP? Recent Developments/Updates

#### 7.4.6 NuFlare?JP? Competitive Strengths & Weaknesses

### 7.5 Carl Zeiss AG?DE?

#### 7.5.1 Carl Zeiss AG?DE? Details

#### 7.5.2 Carl Zeiss AG?DE? Major Business

#### 7.5.3 Carl Zeiss AG?DE? Photo Mask Inspection Equipment Product and Services

#### 7.5.4 Carl Zeiss AG?DE? Photo Mask Inspection Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.5.5 Carl Zeiss AG?DE? Recent Developments/Updates

#### 7.5.6 Carl Zeiss AG?DE? Competitive Strengths & Weaknesses

### 7.6 Advantest?JP?

#### 7.6.1 Advantest?JP? Details

#### 7.6.2 Advantest?JP? Major Business

#### 7.6.3 Advantest?JP? Photo Mask Inspection Equipment Product and Services

#### 7.6.4 Advantest?JP? Photo Mask Inspection Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.6.5 Advantest?JP? Recent Developments/Updates

#### 7.6.6 Advantest?JP? Competitive Strengths & Weaknesses

### 7.7 Visionoptech?CN?

#### 7.7.1 Visionoptech?CN? Details

#### 7.7.2 Visionoptech?CN? Major Business

#### 7.7.3 Visionoptech?CN? Photo Mask Inspection Equipment Product and Services

#### 7.7.4 Visionoptech?CN? Photo Mask Inspection Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.7.5 Visionoptech?CN? Recent Developments/Updates

#### 7.7.6 Visionoptech?CN? Competitive Strengths & Weaknesses

## 8 INDUSTRY CHAIN ANALYSIS

### 8.1 Photo Mask Inspection Equipment Industry Chain

### 8.2 Photo Mask Inspection Equipment Upstream Analysis

#### 8.2.1 Photo Mask Inspection Equipment Core Raw Materials

8.2.2 Main Manufacturers of Photo Mask Inspection Equipment Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Photo Mask Inspection Equipment Production Mode

8.6 Photo Mask Inspection Equipment Procurement Model

8.7 Photo Mask Inspection Equipment Industry Sales Model and Sales Channels

8.7.1 Photo Mask Inspection Equipment Sales Model

8.7.2 Photo Mask Inspection Equipment Typical Distributors

## **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 Photo Mask Inspection Equipment Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Photo Mask Inspection Equipment Production Value by Region (2021-2026) & (USD Million)

Table 3. World Photo Mask Inspection Equipment Production Value by Region (2027-2032) & (USD Million)

Table 4. World Photo Mask Inspection Equipment Production Value Market Share by Region (2021-2026)

Table 5. World Photo Mask Inspection Equipment Production Value Market Share by Region (2027-2032)

Table 6. World Photo Mask Inspection Equipment Production by Region (2021-2026) & (Units)

Table 7. World Photo Mask Inspection Equipment Production by Region (2027-2032) & (Units)

Table 8. World Photo Mask Inspection Equipment Production Market Share by Region (2021-2026)

Table 9. World Photo Mask Inspection Equipment Production Market Share by Region (2027-2032)

Table 10. World Photo Mask Inspection Equipment Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Photo Mask Inspection Equipment Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Photo Mask Inspection Equipment Major Market Trends

Table 13. World Photo Mask Inspection Equipment Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Photo Mask Inspection Equipment Consumption by Region (2021-2026) & (Units)

Table 15. World Photo Mask Inspection Equipment Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Photo Mask Inspection Equipment Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Photo Mask Inspection Equipment Producers in 2025

Table 18. World Photo Mask Inspection Equipment Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Photo Mask Inspection Equipment Producers in 2025

Table 20. World Photo Mask Inspection Equipment Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Photo Mask Inspection Equipment Company Evaluation Quadrant

Table 22. World Photo Mask Inspection Equipment Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Photo Mask Inspection Equipment Production Site of Key Manufacturer

Table 24. Photo Mask Inspection Equipment Market: Company Product Type Footprint

Table 25. Photo Mask Inspection Equipment Market: Company Product Application Footprint

Table 26. Photo Mask Inspection Equipment Competitive Factors

Table 27. Photo Mask Inspection Equipment New Entrant and Capacity Expansion Plans

Table 28. Photo Mask Inspection Equipment Mergers & Acquisitions Activity

Table 29. United States VS China Photo Mask Inspection Equipment Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Photo Mask Inspection Equipment Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Photo Mask Inspection Equipment Consumption Comparison, (2021 & 2025 & 2032) & (Units)

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

Table 33. United States Based Manufacturers Photo Mask Inspection Equipment Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Photo Mask Inspection Equipment Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Photo Mask Inspection Equipment Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Photo Mask Inspection Equipment Production Market Share (2021-2026)

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

Table 38. China Based Manufacturers Photo Mask Inspection Equipment Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Photo Mask Inspection Equipment Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Photo Mask Inspection Equipment Production,

(2021-2026) & (Units)

Table 41. China Based Manufacturers Photo Mask Inspection Equipment Production Market Share (2021-2026)

Table 42. Rest of World Based Photo Mask Inspection Equipment Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Photo Mask Inspection Equipment Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Photo Mask Inspection Equipment Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Photo Mask Inspection Equipment Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Photo Mask Inspection Equipment Production Market Share (2021-2026)

Table 47. World Photo Mask Inspection Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Photo Mask Inspection Equipment Production by Type (2021-2026) & (Units)

Table 49. World Photo Mask Inspection Equipment Production by Type (2027-2032) & (Units)

Table 50. World Photo Mask Inspection Equipment Production Value by Type (2021-2026) & (USD Million)

Table 51. World Photo Mask Inspection Equipment Production Value by Type (2027-2032) & (USD Million)

Table 52. World Photo Mask Inspection Equipment Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Photo Mask Inspection Equipment Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Photo Mask Inspection Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Photo Mask Inspection Equipment Production by Application (2021-2026) & (Units)

Table 56. World Photo Mask Inspection Equipment Production by Application (2027-2032) & (Units)

Table 57. World Photo Mask Inspection Equipment Production Value by Application (2021-2026) & (USD Million)

Table 58. World Photo Mask Inspection Equipment Production Value by Application (2027-2032) & (USD Million)

Table 59. World Photo Mask Inspection Equipment Average Price by Application (2021-2026) & (K US\$/Unit)



Table 60. World Photo Mask Inspection Equipment Average Price by Application (2027-2032) & (K US\$/Unit)

Table 61. KLA?US? Basic Information, Manufacturing Base and Competitors

Table 62. KLA?US? Major Business

Table 63. KLA?US? Photo Mask Inspection Equipment Product and Services

Table 64. KLA?US? Photo Mask Inspection Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. KLA?US? Recent Developments/Updates

Table 66. KLA?US? Competitive Strengths & Weaknesses

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

Table 68. Applied Materials?US? Major Business

Table 69. Applied Materials?US? Photo Mask Inspection Equipment Product and Services

Table 70. Applied Materials?US? Photo Mask Inspection Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Applied Materials?US? Recent Developments/Updates

Table 72. Applied Materials?US? Competitive Strengths & Weaknesses

Table 73. Lasertec?JP? Basic Information, Manufacturing Base and Competitors

Table 74. Lasertec?JP? Major Business

Table 75. Lasertec?JP? Photo Mask Inspection Equipment Product and Services

Table 76. Lasertec?JP? Photo Mask Inspection Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. Lasertec?JP? Recent Developments/Updates

Table 78. Lasertec?JP? Competitive Strengths & Weaknesses

Table 79. NuFlare?JP? Basic Information, Manufacturing Base and Competitors

Table 80. NuFlare?JP? Major Business

Table 81. NuFlare?JP? Photo Mask Inspection Equipment Product and Services

Table 82. NuFlare?JP? Photo Mask Inspection Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. NuFlare?JP? Recent Developments/Updates

Table 84. NuFlare?JP? Competitive Strengths & Weaknesses

Table 85. Carl Zeiss AG?DE? Basic Information, Manufacturing Base and Competitors

Table 86. Carl Zeiss AG?DE? Major Business

Table 87. Carl Zeiss AG?DE? Photo Mask Inspection Equipment Product and Services



Table 88. Carl Zeiss AG?DE? Photo Mask Inspection Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. Carl Zeiss AG?DE? Recent Developments/Updates

Table 90. Carl Zeiss AG?DE? Competitive Strengths & Weaknesses

Table 91. Advantest?JP? Basic Information, Manufacturing Base and Competitors

Table 92. Advantest?JP? Major Business

Table 93. Advantest?JP? Photo Mask Inspection Equipment Product and Services

Table 94. Advantest?JP? Photo Mask Inspection Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. Advantest?JP? Recent Developments/Updates

Table 96. Advantest?JP? Competitive Strengths & Weaknesses

Table 97. Visionoptech?CN? Basic Information, Manufacturing Base and Competitors

Table 98. Visionoptech?CN? Major Business

Table 99. Visionoptech?CN? Photo Mask Inspection Equipment Product and Services

Table 100. Visionoptech?CN? Photo Mask Inspection Equipment Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 101. Visionoptech?CN? Recent Developments/Updates

Table 102. Visionoptech?CN? Competitive Strengths & Weaknesses

Table 103. Global Key Players of Photo Mask Inspection Equipment Upstream (Raw Materials)

Table 104. Global Photo Mask Inspection Equipment Typical Customers

Table 105. Photo Mask Inspection Equipment Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Photo Mask Inspection Equipment Picture

Figure 2. World Photo Mask Inspection Equipment Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Photo Mask Inspection Equipment Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Photo Mask Inspection Equipment Production (2021-2032) & (Units)

Figure 5. World Photo Mask Inspection Equipment Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Photo Mask Inspection Equipment Production Value Market Share by Region (2021-2032)

Figure 7. World Photo Mask Inspection Equipment Production Market Share by Region (2021-2032)

Figure 8. North America Photo Mask Inspection Equipment Production (2021-2032) & (Units)

Figure 9. Europe Photo Mask Inspection Equipment Production (2021-2032) & (Units)

Figure 10. China Photo Mask Inspection Equipment Production (2021-2032) & (Units)

Figure 11. Japan Photo Mask Inspection Equipment Production (2021-2032) & (Units)

Figure 12. Photo Mask Inspection Equipment Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Photo Mask Inspection Equipment Consumption (2021-2032) & (Units)

Figure 15. World Photo Mask Inspection Equipment Consumption Market Share by Region (2021-2032)

Figure 16. United States Photo Mask Inspection Equipment Consumption (2021-2032) & (Units)

Figure 17. China Photo Mask Inspection Equipment Consumption (2021-2032) & (Units)

Figure 18. Europe Photo Mask Inspection Equipment Consumption (2021-2032) & (Units)

Figure 19. Japan Photo Mask Inspection Equipment Consumption (2021-2032) & (Units)

Figure 20. South Korea Photo Mask Inspection Equipment Consumption (2021-2032) & (Units)

Figure 21. ASEAN Photo Mask Inspection Equipment Consumption (2021-2032) & (Units)

Figure 22. India Photo Mask Inspection Equipment Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Photo Mask Inspection Equipment by Manufacturer

Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Photo Mask Inspection Equipment Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Photo Mask Inspection Equipment Markets in 2025

Figure 26. United States VS China: Photo Mask Inspection Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Photo Mask Inspection Equipment Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Photo Mask Inspection Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Photo Mask Inspection Equipment Production Market Share 2025

Figure 30. China Based Manufacturers Photo Mask Inspection Equipment Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Photo Mask Inspection Equipment Production Market Share 2025

Figure 32. World Photo Mask Inspection Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Photo Mask Inspection Equipment Production Value Market Share by Type in 2025

Figure 34. Photomask Inspection Equipment

Figure 35. Photomask Substrate Inspection Equipment

Figure 36. World Photo Mask Inspection Equipment Production Market Share by Type (2021-2032)

Figure 37. World Photo Mask Inspection Equipment Production Value Market Share by Type (2021-2032)

Figure 38. World Photo Mask Inspection Equipment Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World Photo Mask Inspection Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 40. World Photo Mask Inspection Equipment Production Value Market Share by Application in 2025

Figure 41. Semiconductor IC/Chip Manufacturer

Figure 42. Photomask Factory

Figure 43. Substrate Manufacturer

Figure 44. World Photo Mask Inspection Equipment Production Market Share by Application (2021-2032)

Figure 45. World Photo Mask Inspection Equipment Production Value Market Share by

Application (2021-2032)

Figure 46. World Photo Mask Inspection Equipment Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 47. Photo Mask Inspection Equipment Industry Chain

Figure 48. Photo Mask Inspection Equipment Procurement Model

Figure 49. Photo Mask Inspection Equipment Sales Model

Figure 50. Photo Mask Inspection Equipment Sales Channels, Direct Sales, and Distribution

Figure 51. Methodology

Figure 52. Research Process and Data Source

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