

Global Parallel Light Exposure Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Parallel Light Exposure Machine market size was valued at US\$ 331 million in 2025 and is forecast to a readjusted size of US\$ 495 million by 2032 with a CAGR of 5.8% during review period.

In 2025, global sales volume of parallel light exposure machines is estimated at approximately 12,400 units, with an average selling price of around USD 26,000 per unit. A parallel light exposure machine is an industrial photolithography device that uses a collimated optical system to convert ultraviolet light into highly parallel beams for exposing photosensitive materials. The key characteristic of this equipment is the near-parallel incidence of light, which reduces edge diffusion and light scattering, thereby improving pattern precision and consistency during exposure. These machines typically employ mercury lamps or UV-LED light sources combined with collimation optics and uniform illumination control systems. They are widely used in printed circuit board (PCB) manufacturing, photoresist pattern transfer, precision electronic component processing, and certain optical component production processes. Parallel light exposure machines are generally applied in medium-to-high precision industrial photolithography processes, requiring high exposure uniformity, stable light intensity, and precise positioning platforms, with sales mainly through direct equipment supply and production line integration.

From a market structure perspective, parallel light exposure machines represent a process-oriented niche within industrial exposure equipment, primarily serving stable production demand in PCB and electronics manufacturing. Compared with mask aligners, their structure is relatively simpler, but they require more precise control of exposure uniformity and beam collimation. Demand for this equipment is closely linked

to increasing circuit density in PCBs, the miniaturization of electronic components, and the broader adoption of industrial photolithography processes. Key industry barriers include expertise in collimated optical system design, illumination uniformity control, long-term equipment stability, and the ability to match production line throughput requirements. As these systems are typically integrated into production workflows, customers tend to exhibit relatively high switching costs once the equipment has been validated within a manufacturing process.

This report is a detailed and comprehensive analysis for global Parallel Light Exposure Machine market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Parallel Light Exposure Machine market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Parallel Light Exposure Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Parallel Light Exposure Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Parallel Light Exposure Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Parallel Light Exposure Machine
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Parallel Light Exposure Machine market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Accutech, TAIWAN KONG KING CO., LTD., SEIWA OPTICAL, Altix, McLantis Technology, SEIMYUNG VACTRON, KLA Corporation, San-Ei Giken, Japan Science Engineering, ORC MANUFACTURING, etc.

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

Market Segmentation

Parallel Light Exposure Machine market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Full Automated

Semi-automatic

Market segment by Automation

Semi-Automative

Fully Automative

Market segment by Substrate Size

Mini FPC Exposure Machine

Medium FPC Exposure Machine

Large FPC Exposure Machine

Market segment by Application

Semiconductor Industry

Consumer Electronics

Others

Major players covered

Accutech

TAIWAN KONG KING CO., LTD.

SEIWA OPTICAL

Altix

McLantis Technology

SEIMYUNG VACTRON

KLA Corporation

San-Ei Giken

Japan Science Engineering

ORC MANUFACTURING

Toray Engineering

GROUP UP Industrial

Adtec Engineering

U-GREAT

Zheng Kai Electrical Technology

GIS Tech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Parallel Light Exposure Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Parallel Light Exposure Machine, with price, sales quantity, revenue, and global market share of Parallel Light Exposure Machine from 2021 to 2026.

Chapter 3, the Parallel Light Exposure Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Parallel Light Exposure Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Parallel Light Exposure Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Parallel Light Exposure Machine.

Chapter 14 and 15, to describe Parallel Light Exposure Machine sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Parallel Light Exposure Machine Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Full Automated

1.3.3 Semi-automatic

1.4 Market Analysis by Automation

1.4.1 Overview: Global Parallel Light Exposure Machine Consumption Value by Automation: 2021 Versus 2025 Versus 2032

1.4.2 Semi-Automative

1.4.3 Fully Automative

1.5 Market Analysis by Substrate Size

1.5.1 Overview: Global Parallel Light Exposure Machine Consumption Value by Substrate Size: 2021 Versus 2025 Versus 2032

1.5.2 Mini FPC Exposure Machine

1.5.3 Medium FPC Exposure Machine

1.5.4 Large FPC Exposure Machine

1.6 Market Analysis by Application

1.6.1 Overview: Global Parallel Light Exposure Machine Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Semiconductor Industry

1.6.3 Consumer Electronics

1.6.4 Others

1.7 Global Parallel Light Exposure Machine Market Size & Forecast

1.7.1 Global Parallel Light Exposure Machine Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Parallel Light Exposure Machine Sales Quantity (2021-2032)

1.7.3 Global Parallel Light Exposure Machine Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Accutech

2.1.1 Accutech Details

2.1.2 Accutech Major Business

- 2.1.3 Accutech Parallel Light Exposure Machine Product and Services
- 2.1.4 Accutech Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Accutech Recent Developments/Updates
- 2.2 TAIWAN KONG KING CO., LTD.
 - 2.2.1 TAIWAN KONG KING CO., LTD. Details
 - 2.2.2 TAIWAN KONG KING CO., LTD. Major Business
 - 2.2.3 TAIWAN KONG KING CO., LTD. Parallel Light Exposure Machine Product and Services
 - 2.2.4 TAIWAN KONG KING CO., LTD. Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 TAIWAN KONG KING CO., LTD. Recent Developments/Updates
- 2.3 SEIWA OPTICAL
 - 2.3.1 SEIWA OPTICAL Details
 - 2.3.2 SEIWA OPTICAL Major Business
 - 2.3.3 SEIWA OPTICAL Parallel Light Exposure Machine Product and Services
 - 2.3.4 SEIWA OPTICAL Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 SEIWA OPTICAL Recent Developments/Updates
- 2.4 Altix
 - 2.4.1 Altix Details
 - 2.4.2 Altix Major Business
 - 2.4.3 Altix Parallel Light Exposure Machine Product and Services
 - 2.4.4 Altix Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Altix Recent Developments/Updates
- 2.5 McLantis Technology
 - 2.5.1 McLantis Technology Details
 - 2.5.2 McLantis Technology Major Business
 - 2.5.3 McLantis Technology Parallel Light Exposure Machine Product and Services
 - 2.5.4 McLantis Technology Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 McLantis Technology Recent Developments/Updates
- 2.6 SEIMYUNG VACTRON
 - 2.6.1 SEIMYUNG VACTRON Details
 - 2.6.2 SEIMYUNG VACTRON Major Business
 - 2.6.3 SEIMYUNG VACTRON Parallel Light Exposure Machine Product and Services
 - 2.6.4 SEIMYUNG VACTRON Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.6.5 SEIMYUNG VACTRON Recent Developments/Updates
- 2.7 KLA Corporation
 - 2.7.1 KLA Corporation Details
 - 2.7.2 KLA Corporation Major Business
 - 2.7.3 KLA Corporation Parallel Light Exposure Machine Product and Services
 - 2.7.4 KLA Corporation Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 KLA Corporation Recent Developments/Updates
- 2.8 San-Ei Giken
 - 2.8.1 San-Ei Giken Details
 - 2.8.2 San-Ei Giken Major Business
 - 2.8.3 San-Ei Giken Parallel Light Exposure Machine Product and Services
 - 2.8.4 San-Ei Giken Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 San-Ei Giken Recent Developments/Updates
- 2.9 Japan Science Engineering
 - 2.9.1 Japan Science Engineering Details
 - 2.9.2 Japan Science Engineering Major Business
 - 2.9.3 Japan Science Engineering Parallel Light Exposure Machine Product and Services
 - 2.9.4 Japan Science Engineering Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Japan Science Engineering Recent Developments/Updates
- 2.10 ORC MANUFACTURING
 - 2.10.1 ORC MANUFACTURING Details
 - 2.10.2 ORC MANUFACTURING Major Business
 - 2.10.3 ORC MANUFACTURING Parallel Light Exposure Machine Product and Services
 - 2.10.4 ORC MANUFACTURING Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 ORC MANUFACTURING Recent Developments/Updates
- 2.11 Toray Engineering
 - 2.11.1 Toray Engineering Details
 - 2.11.2 Toray Engineering Major Business
 - 2.11.3 Toray Engineering Parallel Light Exposure Machine Product and Services
 - 2.11.4 Toray Engineering Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Toray Engineering Recent Developments/Updates
- 2.12 GROUP UP Industrial

- 2.12.1 GROUP UP Industrial Details
- 2.12.2 GROUP UP Industrial Major Business
- 2.12.3 GROUP UP Industrial Parallel Light Exposure Machine Product and Services
- 2.12.4 GROUP UP Industrial Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 GROUP UP Industrial Recent Developments/Updates
- 2.13 Adtec Engineering
 - 2.13.1 Adtec Engineering Details
 - 2.13.2 Adtec Engineering Major Business
 - 2.13.3 Adtec Engineering Parallel Light Exposure Machine Product and Services
 - 2.13.4 Adtec Engineering Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Adtec Engineering Recent Developments/Updates
- 2.14 U-GREAT
 - 2.14.1 U-GREAT Details
 - 2.14.2 U-GREAT Major Business
 - 2.14.3 U-GREAT Parallel Light Exposure Machine Product and Services
 - 2.14.4 U-GREAT Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 U-GREAT Recent Developments/Updates
- 2.15 Zheng Kai Electrical Technology
 - 2.15.1 Zheng Kai Electrical Technology Details
 - 2.15.2 Zheng Kai Electrical Technology Major Business
 - 2.15.3 Zheng Kai Electrical Technology Parallel Light Exposure Machine Product and Services
 - 2.15.4 Zheng Kai Electrical Technology Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Zheng Kai Electrical Technology Recent Developments/Updates
- 2.16 GIS Tech
 - 2.16.1 GIS Tech Details
 - 2.16.2 GIS Tech Major Business
 - 2.16.3 GIS Tech Parallel Light Exposure Machine Product and Services
 - 2.16.4 GIS Tech Parallel Light Exposure Machine Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 GIS Tech Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PARALLEL LIGHT EXPOSURE MACHINE BY MANUFACTURER

- 3.1 Global Parallel Light Exposure Machine Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Parallel Light Exposure Machine Revenue by Manufacturer (2021-2026)
- 3.3 Global Parallel Light Exposure Machine Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Parallel Light Exposure Machine by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Parallel Light Exposure Machine Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Parallel Light Exposure Machine Manufacturer Market Share in 2025
- 3.5 Parallel Light Exposure Machine Market: Overall Company Footprint Analysis
 - 3.5.1 Parallel Light Exposure Machine Market: Region Footprint
 - 3.5.2 Parallel Light Exposure Machine Market: Company Product Type Footprint
 - 3.5.3 Parallel Light Exposure Machine Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Parallel Light Exposure Machine Market Size by Region
 - 4.1.1 Global Parallel Light Exposure Machine Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Parallel Light Exposure Machine Consumption Value by Region (2021-2032)
 - 4.1.3 Global Parallel Light Exposure Machine Average Price by Region (2021-2032)
- 4.2 North America Parallel Light Exposure Machine Consumption Value (2021-2032)
- 4.3 Europe Parallel Light Exposure Machine Consumption Value (2021-2032)
- 4.4 Asia-Pacific Parallel Light Exposure Machine Consumption Value (2021-2032)
- 4.5 South America Parallel Light Exposure Machine Consumption Value (2021-2032)
- 4.6 Middle East & Africa Parallel Light Exposure Machine Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Parallel Light Exposure Machine Sales Quantity by Type (2021-2032)
- 5.2 Global Parallel Light Exposure Machine Consumption Value by Type (2021-2032)
- 5.3 Global Parallel Light Exposure Machine Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Parallel Light Exposure Machine Sales Quantity by Application (2021-2032)

6.2 Global Parallel Light Exposure Machine Consumption Value by Application (2021-2032)

6.3 Global Parallel Light Exposure Machine Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Parallel Light Exposure Machine Sales Quantity by Type (2021-2032)

7.2 North America Parallel Light Exposure Machine Sales Quantity by Application (2021-2032)

7.3 North America Parallel Light Exposure Machine Market Size by Country

7.3.1 North America Parallel Light Exposure Machine Sales Quantity by Country (2021-2032)

7.3.2 North America Parallel Light Exposure Machine Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Parallel Light Exposure Machine Sales Quantity by Type (2021-2032)

8.2 Europe Parallel Light Exposure Machine Sales Quantity by Application (2021-2032)

8.3 Europe Parallel Light Exposure Machine Market Size by Country

8.3.1 Europe Parallel Light Exposure Machine Sales Quantity by Country (2021-2032)

8.3.2 Europe Parallel Light Exposure Machine Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Parallel Light Exposure Machine Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Parallel Light Exposure Machine Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Parallel Light Exposure Machine Market Size by Region

9.3.1 Asia-Pacific Parallel Light Exposure Machine Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Parallel Light Exposure Machine Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Parallel Light Exposure Machine Sales Quantity by Type (2021-2032)

10.2 South America Parallel Light Exposure Machine Sales Quantity by Application (2021-2032)

10.3 South America Parallel Light Exposure Machine Market Size by Country

10.3.1 South America Parallel Light Exposure Machine Sales Quantity by Country (2021-2032)

10.3.2 South America Parallel Light Exposure Machine Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Parallel Light Exposure Machine Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Parallel Light Exposure Machine Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Parallel Light Exposure Machine Market Size by Country

11.3.1 Middle East & Africa Parallel Light Exposure Machine Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Parallel Light Exposure Machine Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Parallel Light Exposure Machine Market Drivers
- 12.2 Parallel Light Exposure Machine Market Restraints
- 12.3 Parallel Light Exposure Machine Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Parallel Light Exposure Machine and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Parallel Light Exposure Machine
- 13.3 Parallel Light Exposure Machine Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Parallel Light Exposure Machine Typical Distributors
- 14.3 Parallel Light Exposure Machine Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Parallel Light Exposure Machine Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Parallel Light Exposure Machine Consumption Value by Automation, (USD Million), 2021 & 2025 & 2032

Table 3. Global Parallel Light Exposure Machine Consumption Value by Substrate Size, (USD Million), 2021 & 2025 & 2032

Table 4. Global Parallel Light Exposure Machine Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Accutech Basic Information, Manufacturing Base and Competitors

Table 6. Accutech Major Business

Table 7. Accutech Parallel Light Exposure Machine Product and Services

Table 8. Accutech Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Accutech Recent Developments/Updates

Table 10. TAIWAN KONG KING CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 11. TAIWAN KONG KING CO., LTD. Major Business

Table 12. TAIWAN KONG KING CO., LTD. Parallel Light Exposure Machine Product and Services

Table 13. TAIWAN KONG KING CO., LTD. Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. TAIWAN KONG KING CO., LTD. Recent Developments/Updates

Table 15. SEIWA OPTICAL Basic Information, Manufacturing Base and Competitors

Table 16. SEIWA OPTICAL Major Business

Table 17. SEIWA OPTICAL Parallel Light Exposure Machine Product and Services

Table 18. SEIWA OPTICAL Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. SEIWA OPTICAL Recent Developments/Updates

Table 20. Altix Basic Information, Manufacturing Base and Competitors

Table 21. Altix Major Business

Table 22. Altix Parallel Light Exposure Machine Product and Services

Table 23. Altix Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Altix Recent Developments/Updates

Table 25. McLantis Technology Basic Information, Manufacturing Base and Competitors

Table 26. McLantis Technology Major Business

Table 27. McLantis Technology Parallel Light Exposure Machine Product and Services

Table 28. McLantis Technology Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. McLantis Technology Recent Developments/Updates

Table 30. SEIMYUNG VACTRON Basic Information, Manufacturing Base and Competitors

Table 31. SEIMYUNG VACTRON Major Business

Table 32. SEIMYUNG VACTRON Parallel Light Exposure Machine Product and Services

Table 33. SEIMYUNG VACTRON Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. SEIMYUNG VACTRON Recent Developments/Updates

Table 35. KLA Corporation Basic Information, Manufacturing Base and Competitors

Table 36. KLA Corporation Major Business

Table 37. KLA Corporation Parallel Light Exposure Machine Product and Services

Table 38. KLA Corporation Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. KLA Corporation Recent Developments/Updates

Table 40. San-Ei Giken Basic Information, Manufacturing Base and Competitors

Table 41. San-Ei Giken Major Business

Table 42. San-Ei Giken Parallel Light Exposure Machine Product and Services

Table 43. San-Ei Giken Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. San-Ei Giken Recent Developments/Updates

Table 45. Japan Science Engineering Basic Information, Manufacturing Base and Competitors

Table 46. Japan Science Engineering Major Business

Table 47. Japan Science Engineering Parallel Light Exposure Machine Product and Services

Table 48. Japan Science Engineering Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Japan Science Engineering Recent Developments/Updates

Table 50. ORC MANUFACTURING Basic Information, Manufacturing Base and Competitors

Table 51. ORC MANUFACTURING Major Business

Table 52. ORC MANUFACTURING Parallel Light Exposure Machine Product and Services

Table 53. ORC MANUFACTURING Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. ORC MANUFACTURING Recent Developments/Updates

Table 55. Toray Engineering Basic Information, Manufacturing Base and Competitors

Table 56. Toray Engineering Major Business

Table 57. Toray Engineering Parallel Light Exposure Machine Product and Services

Table 58. Toray Engineering Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Toray Engineering Recent Developments/Updates

Table 60. GROUP UP Industrial Basic Information, Manufacturing Base and Competitors

Table 61. GROUP UP Industrial Major Business

Table 62. GROUP UP Industrial Parallel Light Exposure Machine Product and Services

Table 63. GROUP UP Industrial Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. GROUP UP Industrial Recent Developments/Updates

Table 65. Adtec Engineering Basic Information, Manufacturing Base and Competitors

Table 66. Adtec Engineering Major Business

Table 67. Adtec Engineering Parallel Light Exposure Machine Product and Services

Table 68. Adtec Engineering Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Adtec Engineering Recent Developments/Updates

Table 70. U-GREAT Basic Information, Manufacturing Base and Competitors

Table 71. U-GREAT Major Business

Table 72. U-GREAT Parallel Light Exposure Machine Product and Services

Table 73. U-GREAT Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. U-GREAT Recent Developments/Updates

Table 75. Zheng Kai Electrical Technology Basic Information, Manufacturing Base and

Competitors

Table 76. Zheng Kai Electrical Technology Major Business

Table 77. Zheng Kai Electrical Technology Parallel Light Exposure Machine Product and Services

Table 78. Zheng Kai Electrical Technology Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Zheng Kai Electrical Technology Recent Developments/Updates

Table 80. GIS Tech Basic Information, Manufacturing Base and Competitors

Table 81. GIS Tech Major Business

Table 82. GIS Tech Parallel Light Exposure Machine Product and Services

Table 83. GIS Tech Parallel Light Exposure Machine Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. GIS Tech Recent Developments/Updates

Table 85. Global Parallel Light Exposure Machine Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 86. Global Parallel Light Exposure Machine Revenue by Manufacturer (2021-2026) & (USD Million)

Table 87. Global Parallel Light Exposure Machine Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 88. Market Position of Manufacturers in Parallel Light Exposure Machine, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 89. Head Office and Parallel Light Exposure Machine Production Site of Key Manufacturer

Table 90. Parallel Light Exposure Machine Market: Company Product Type Footprint

Table 91. Parallel Light Exposure Machine Market: Company Product Application Footprint

Table 92. Parallel Light Exposure Machine New Market Entrants and Barriers to Market Entry

Table 93. Parallel Light Exposure Machine Mergers, Acquisition, Agreements, and Collaborations

Table 94. Global Parallel Light Exposure Machine Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 95. Global Parallel Light Exposure Machine Sales Quantity by Region (2021-2026) & (K Units)

Table 96. Global Parallel Light Exposure Machine Sales Quantity by Region (2027-2032) & (K Units)

Table 97. Global Parallel Light Exposure Machine Consumption Value by Region (2021-2026) & (USD Million)

Table 98. Global Parallel Light Exposure Machine Consumption Value by Region (2027-2032) & (USD Million)

Table 99. Global Parallel Light Exposure Machine Average Price by Region (2021-2026) & (US\$/Unit)

Table 100. Global Parallel Light Exposure Machine Average Price by Region (2027-2032) & (US\$/Unit)

Table 101. Global Parallel Light Exposure Machine Sales Quantity by Type (2021-2026) & (K Units)

Table 102. Global Parallel Light Exposure Machine Sales Quantity by Type (2027-2032) & (K Units)

Table 103. Global Parallel Light Exposure Machine Consumption Value by Type (2021-2026) & (USD Million)

Table 104. Global Parallel Light Exposure Machine Consumption Value by Type (2027-2032) & (USD Million)

Table 105. Global Parallel Light Exposure Machine Average Price by Type (2021-2026) & (US\$/Unit)

Table 106. Global Parallel Light Exposure Machine Average Price by Type (2027-2032) & (US\$/Unit)

Table 107. Global Parallel Light Exposure Machine Sales Quantity by Application (2021-2026) & (K Units)

Table 108. Global Parallel Light Exposure Machine Sales Quantity by Application (2027-2032) & (K Units)

Table 109. Global Parallel Light Exposure Machine Consumption Value by Application (2021-2026) & (USD Million)

Table 110. Global Parallel Light Exposure Machine Consumption Value by Application (2027-2032) & (USD Million)

Table 111. Global Parallel Light Exposure Machine Average Price by Application (2021-2026) & (US\$/Unit)

Table 112. Global Parallel Light Exposure Machine Average Price by Application (2027-2032) & (US\$/Unit)

Table 113. North America Parallel Light Exposure Machine Sales Quantity by Type (2021-2026) & (K Units)

Table 114. North America Parallel Light Exposure Machine Sales Quantity by Type (2027-2032) & (K Units)

Table 115. North America Parallel Light Exposure Machine Sales Quantity by Application (2021-2026) & (K Units)

Table 116. North America Parallel Light Exposure Machine Sales Quantity by Application (2027-2032) & (K Units)

Table 117. North America Parallel Light Exposure Machine Sales Quantity by Country

(2021-2026) & (K Units)

Table 118. North America Parallel Light Exposure Machine Sales Quantity by Country (2027-2032) & (K Units)

Table 119. North America Parallel Light Exposure Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 120. North America Parallel Light Exposure Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 121. Europe Parallel Light Exposure Machine Sales Quantity by Type (2021-2026) & (K Units)

Table 122. Europe Parallel Light Exposure Machine Sales Quantity by Type (2027-2032) & (K Units)

Table 123. Europe Parallel Light Exposure Machine Sales Quantity by Application (2021-2026) & (K Units)

Table 124. Europe Parallel Light Exposure Machine Sales Quantity by Application (2027-2032) & (K Units)

Table 125. Europe Parallel Light Exposure Machine Sales Quantity by Country (2021-2026) & (K Units)

Table 126. Europe Parallel Light Exposure Machine Sales Quantity by Country (2027-2032) & (K Units)

Table 127. Europe Parallel Light Exposure Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 128. Europe Parallel Light Exposure Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Asia-Pacific Parallel Light Exposure Machine Sales Quantity by Type (2021-2026) & (K Units)

Table 130. Asia-Pacific Parallel Light Exposure Machine Sales Quantity by Type (2027-2032) & (K Units)

Table 131. Asia-Pacific Parallel Light Exposure Machine Sales Quantity by Application (2021-2026) & (K Units)

Table 132. Asia-Pacific Parallel Light Exposure Machine Sales Quantity by Application (2027-2032) & (K Units)

Table 133. Asia-Pacific Parallel Light Exposure Machine Sales Quantity by Region (2021-2026) & (K Units)

Table 134. Asia-Pacific Parallel Light Exposure Machine Sales Quantity by Region (2027-2032) & (K Units)

Table 135. Asia-Pacific Parallel Light Exposure Machine Consumption Value by Region (2021-2026) & (USD Million)

Table 136. Asia-Pacific Parallel Light Exposure Machine Consumption Value by Region (2027-2032) & (USD Million)

Table 137. South America Parallel Light Exposure Machine Sales Quantity by Type (2021-2026) & (K Units)

Table 138. South America Parallel Light Exposure Machine Sales Quantity by Type (2027-2032) & (K Units)

Table 139. South America Parallel Light Exposure Machine Sales Quantity by Application (2021-2026) & (K Units)

Table 140. South America Parallel Light Exposure Machine Sales Quantity by Application (2027-2032) & (K Units)

Table 141. South America Parallel Light Exposure Machine Sales Quantity by Country (2021-2026) & (K Units)

Table 142. South America Parallel Light Exposure Machine Sales Quantity by Country (2027-2032) & (K Units)

Table 143. South America Parallel Light Exposure Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 144. South America Parallel Light Exposure Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 145. Middle East & Africa Parallel Light Exposure Machine Sales Quantity by Type (2021-2026) & (K Units)

Table 146. Middle East & Africa Parallel Light Exposure Machine Sales Quantity by Type (2027-2032) & (K Units)

Table 147. Middle East & Africa Parallel Light Exposure Machine Sales Quantity by Application (2021-2026) & (K Units)

Table 148. Middle East & Africa Parallel Light Exposure Machine Sales Quantity by Application (2027-2032) & (K Units)

Table 149. Middle East & Africa Parallel Light Exposure Machine Sales Quantity by Country (2021-2026) & (K Units)

Table 150. Middle East & Africa Parallel Light Exposure Machine Sales Quantity by Country (2027-2032) & (K Units)

Table 151. Middle East & Africa Parallel Light Exposure Machine Consumption Value by Country (2021-2026) & (USD Million)

Table 152. Middle East & Africa Parallel Light Exposure Machine Consumption Value by Country (2027-2032) & (USD Million)

Table 153. Parallel Light Exposure Machine Raw Material

Table 154. Key Manufacturers of Parallel Light Exposure Machine Raw Materials

Table 155. Parallel Light Exposure Machine Typical Distributors

Table 156. Parallel Light Exposure Machine Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Parallel Light Exposure Machine Picture

Figure 2. Global Parallel Light Exposure Machine Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Parallel Light Exposure Machine Revenue Market Share by Type in 2025

Figure 4. Full Automated Examples

Figure 5. Semi-automatic Examples

Figure 6. Global Parallel Light Exposure Machine Revenue by Automation, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Parallel Light Exposure Machine Revenue Market Share by Automation in 2025

Figure 8. Semi-Automative Examples

Figure 9. Fully Automative Examples

Figure 10. Global Parallel Light Exposure Machine Revenue by Substrate Size, (USD Million), 2021 & 2025 & 2032

Figure 11. Global Parallel Light Exposure Machine Revenue Market Share by Substrate Size in 2025

Figure 12. Mini FPC Exposure Machine Examples

Figure 13. Medium FPC Exposure Machine Examples

Figure 14. Large FPC Exposure Machine Examples

Figure 15. Global Parallel Light Exposure Machine Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 16. Global Parallel Light Exposure Machine Revenue Market Share by Application in 2025

Figure 17. Semiconductor Industry Examples

Figure 18. Consumer Electronics Examples

Figure 19. Others Examples

Figure 20. Global Parallel Light Exposure Machine Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 21. Global Parallel Light Exposure Machine Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 22. Global Parallel Light Exposure Machine Sales Quantity (2021-2032) & (K Units)

Figure 23. Global Parallel Light Exposure Machine Price (2021-2032) & (US\$/Unit)

Figure 24. Global Parallel Light Exposure Machine Sales Quantity Market Share by

Manufacturer in 2025

Figure 25. Global Parallel Light Exposure Machine Revenue Market Share by Manufacturer in 2025

Figure 26. Producer Shipments of Parallel Light Exposure Machine by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 Parallel Light Exposure Machine Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 Parallel Light Exposure Machine Manufacturer (Revenue) Market Share in 2025

Figure 29. Global Parallel Light Exposure Machine Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global Parallel Light Exposure Machine Consumption Value Market Share by Region (2021-2032)

Figure 31. North America Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 34. South America Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 36. Global Parallel Light Exposure Machine Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global Parallel Light Exposure Machine Consumption Value Market Share by Type (2021-2032)

Figure 38. Global Parallel Light Exposure Machine Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. Global Parallel Light Exposure Machine Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global Parallel Light Exposure Machine Revenue Market Share by Application (2021-2032)

Figure 41. Global Parallel Light Exposure Machine Average Price by Application (2021-2032) & (US\$/Unit)

Figure 42. North America Parallel Light Exposure Machine Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America Parallel Light Exposure Machine Sales Quantity Market Share by Application (2021-2032)

Figure 44. North America Parallel Light Exposure Machine Sales Quantity Market Share by Country (2021-2032)

Figure 45. North America Parallel Light Exposure Machine Consumption Value Market Share by Country (2021-2032)

Figure 46. United States Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 49. Europe Parallel Light Exposure Machine Sales Quantity Market Share by Type (2021-2032)

Figure 50. Europe Parallel Light Exposure Machine Sales Quantity Market Share by Application (2021-2032)

Figure 51. Europe Parallel Light Exposure Machine Sales Quantity Market Share by Country (2021-2032)

Figure 52. Europe Parallel Light Exposure Machine Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 54. France Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific Parallel Light Exposure Machine Sales Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific Parallel Light Exposure Machine Sales Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific Parallel Light Exposure Machine Sales Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific Parallel Light Exposure Machine Consumption Value Market Share by Region (2021-2032)

Figure 62. China Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan Parallel Light Exposure Machine Consumption Value (2021-2032) &

(USD Million)

Figure 64. South Korea Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 65. India Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 68. South America Parallel Light Exposure Machine Sales Quantity Market Share by Type (2021-2032)

Figure 69. South America Parallel Light Exposure Machine Sales Quantity Market Share by Application (2021-2032)

Figure 70. South America Parallel Light Exposure Machine Sales Quantity Market Share by Country (2021-2032)

Figure 71. South America Parallel Light Exposure Machine Consumption Value Market Share by Country (2021-2032)

Figure 72. Brazil Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 73. Argentina Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 74. Middle East & Africa Parallel Light Exposure Machine Sales Quantity Market Share by Type (2021-2032)

Figure 75. Middle East & Africa Parallel Light Exposure Machine Sales Quantity Market Share by Application (2021-2032)

Figure 76. Middle East & Africa Parallel Light Exposure Machine Sales Quantity Market Share by Country (2021-2032)

Figure 77. Middle East & Africa Parallel Light Exposure Machine Consumption Value Market Share by Country (2021-2032)

Figure 78. Turkey Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 79. Egypt Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 80. Saudi Arabia Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 81. South Africa Parallel Light Exposure Machine Consumption Value (2021-2032) & (USD Million)

Figure 82. Parallel Light Exposure Machine Market Drivers

Figure 83. Parallel Light Exposure Machine Market Restraints

Figure 84. Parallel Light Exposure Machine Market Trends

Figure 85. Porters Five Forces Analysis

Figure 86. Manufacturing Cost Structure Analysis of Parallel Light Exposure Machine in 2025

Figure 87. Manufacturing Process Analysis of Parallel Light Exposure Machine

Figure 88. Parallel Light Exposure Machine Industrial Chain

Figure 89. Sales Channel: Direct to End-User vs Distributors

Figure 90. Direct Channel Pros & Cons

Figure 91. Indirect Channel Pros & Cons

Figure 92. Methodology

Figure 93. Research Process and Data Source

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