

Global Semiconductor Residual Gas Analyzer Market Growth 2026-2032

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Abstracts

The global Semiconductor Residual Gas Analyzer market size is predicted to grow from US\$ 114 million in 2025 to US\$ 166 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

Residual Gas Analyzer (RGA) is an advanced diagnostic tool used to measure the partial pressure of different gases in a mixture, even at very low concentrations. RGA is an independent vacuum system that uses differential pumping technology to sample gases at atmospheric pressure. A small amount of sample is ionized, and then the ions are accelerated through a mass separation filter to generate a mass spectrum, where each peak represents the functional relationship between the partial pressure of gas substances and their mass (up to 100 m/z). In 2025, global Semiconductor Residual Gas Analyzer production reached approximately 4,361 Units, with an average global market price of around US\$ 26,654 per unit.

The semiconductor residual gas analyzer market belongs to the high-end analytical instrument segment, showing a steady growth trend overall, mainly driven by investment in semiconductor manufacturing equipment and the development of advanced processes. With the evolution of chip processes towards smaller nodes, the requirements for vacuum environment purity and process stability have significantly increased, driving the demand for high sensitivity and high stability RGA. From the perspective of application structure, wafer manufacturing equipment is the core market, while the demand for advanced packaging and vacuum coating is gradually increasing. In terms of technological trends, products are developing towards high sensitivity, miniaturization, online real-time monitoring, and intelligent data analysis. In terms of competitive landscape, European and American manufacturers dominate the high-end market with core mass spectrometry technology advantages, while Asian manufacturers

are gradually entering the mid-range market. Overall, the industry presents the characteristics of 'high technological barriers, relatively small market size but strong growth certainty'.

LP Information, Inc. (LPI) ' newest research report, the "Semiconductor Residual Gas Analyzer Industry Forecast" looks at past sales and reviews total world Semiconductor Residual Gas Analyzer sales in 2025, providing a comprehensive analysis by region and market sector of projected Semiconductor Residual Gas Analyzer sales for 2026 through 2032. With Semiconductor Residual Gas Analyzer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Semiconductor Residual Gas Analyzer industry.

This Insight Report provides a comprehensive analysis of the global Semiconductor Residual Gas Analyzer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Semiconductor Residual Gas Analyzer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Semiconductor Residual Gas Analyzer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor Residual Gas Analyzer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Semiconductor Residual Gas Analyzer.

This report presents a comprehensive overview, market shares, and growth opportunities of Semiconductor Residual Gas Analyzer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mass Number Range 1-100 amu

Mass Number Range 1-200 amu

Mass Number Range 1-300 amu

Segmentation by Structural Form:

Portable

Desktop

Segmentation by Detector Type:

FC

EM

Segmentation by Application:

IDM

Foundry

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Inficon

ULVAC Technologies

MKS Instruments

Stanford Research Systems (SRS)

Pfeiffer Vacuum

Edwards Vacuum

Extorr

Horiba

Process Insights(Extrel CMS)

Hidden Analytical

Leybold

Shanghai Accurate Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Semiconductor Residual Gas Analyzer market?

What factors are driving Semiconductor Residual Gas Analyzer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Semiconductor Residual Gas Analyzer market opportunities vary by end market size?

How does Semiconductor Residual Gas Analyzer break out by Type, by

Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Semiconductor Residual Gas Analyzer Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Semiconductor Residual Gas Analyzer by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Semiconductor Residual Gas Analyzer by Country/Region, 2021, 2025 & 2032
- 2.2 Semiconductor Residual Gas Analyzer Segment by Type
 - 2.2.1 Mass Number Range 1-100 amu
 - 2.2.2 Mass Number Range 1-200 amu
 - 2.2.3 Mass Number Range 1-300 amu
 - 2.2.4 Semiconductor Residual Gas Analyzer Sales by Type
 - 2.2.4.1 Global Semiconductor Residual Gas Analyzer Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Semiconductor Residual Gas Analyzer Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Semiconductor Residual Gas Analyzer Sale Price by Type (2021-2026)

2.3 Semiconductor Residual Gas Analyzer Segment by Structural Form

- 2.3.1 Portable
- 2.3.2 Desktop
- 2.3.3 Semiconductor Residual Gas Analyzer Sales by Structural Form
 - 2.3.3.1 Global Semiconductor Residual Gas Analyzer Sales Market Share by Structural Form (2021-2026)
 - 2.3.3.2 Global Semiconductor Residual Gas Analyzer Revenue and Market Share by

Structural Form (2021-2026)

2.3.3.3 Global Semiconductor Residual Gas Analyzer Sale Price by Structural Form (2021-2026)

2.4 Semiconductor Residual Gas Analyzer Segment by Detector Type

2.4.1 FC

2.4.2 EM

2.4.3 Semiconductor Residual Gas Analyzer Sales by Detector Type

2.4.3.1 Global Semiconductor Residual Gas Analyzer Sales Market Share by Detector Type (2021-2026)

2.4.3.2 Global Semiconductor Residual Gas Analyzer Revenue and Market Share by Detector Type (2021-2026)

2.4.3.3 Global Semiconductor Residual Gas Analyzer Sale Price by Detector Type (2021-2026)

2.5 Semiconductor Residual Gas Analyzer Segment by Application

2.5.1 IDM

2.5.2 Foundry

2.5.3 Semiconductor Residual Gas Analyzer Sales by Application

2.5.3.1 Global Semiconductor Residual Gas Analyzer Sale Market Share by Application (2021-2026)

2.5.3.2 Global Semiconductor Residual Gas Analyzer Revenue and Market Share by Application (2021-2026)

2.5.3.3 Global Semiconductor Residual Gas Analyzer Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Semiconductor Residual Gas Analyzer Breakdown Data by Company

3.1.1 Global Semiconductor Residual Gas Analyzer Annual Sales by Company (2021-2026)

3.1.2 Global Semiconductor Residual Gas Analyzer Sales Market Share by Company (2021-2026)

3.2 Global Semiconductor Residual Gas Analyzer Annual Revenue by Company (2021-2026)

3.2.1 Global Semiconductor Residual Gas Analyzer Revenue by Company (2021-2026)

3.2.2 Global Semiconductor Residual Gas Analyzer Revenue Market Share by Company (2021-2026)

3.3 Global Semiconductor Residual Gas Analyzer Sale Price by Company

3.4 Key Manufacturers Semiconductor Residual Gas Analyzer Producing Area

Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Semiconductor Residual Gas Analyzer Product Location

Distribution

3.4.2 Players Semiconductor Residual Gas Analyzer Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SEMICONDUCTOR RESIDUAL GAS ANALYZER BY GEOGRAPHIC REGION

4.1 World Historic Semiconductor Residual Gas Analyzer Market Size by Geographic Region (2021-2026)

4.1.1 Global Semiconductor Residual Gas Analyzer Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Semiconductor Residual Gas Analyzer Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Semiconductor Residual Gas Analyzer Market Size by Country/Region (2021-2026)

4.2.1 Global Semiconductor Residual Gas Analyzer Annual Sales by Country/Region (2021-2026)

4.2.2 Global Semiconductor Residual Gas Analyzer Annual Revenue by Country/Region (2021-2026)

4.3 Americas Semiconductor Residual Gas Analyzer Sales Growth

4.4 APAC Semiconductor Residual Gas Analyzer Sales Growth

4.5 Europe Semiconductor Residual Gas Analyzer Sales Growth

4.6 Middle East & Africa Semiconductor Residual Gas Analyzer Sales Growth

5 AMERICAS

5.1 Americas Semiconductor Residual Gas Analyzer Sales by Country

5.1.1 Americas Semiconductor Residual Gas Analyzer Sales by Country (2021-2026)

5.1.2 Americas Semiconductor Residual Gas Analyzer Revenue by Country (2021-2026)

5.2 Americas Semiconductor Residual Gas Analyzer Sales by Type (2021-2026)

5.3 Americas Semiconductor Residual Gas Analyzer Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Semiconductor Residual Gas Analyzer Sales by Region

6.1.1 APAC Semiconductor Residual Gas Analyzer Sales by Region (2021-2026)

6.1.2 APAC Semiconductor Residual Gas Analyzer Revenue by Region (2021-2026)

6.2 APAC Semiconductor Residual Gas Analyzer Sales by Type (2021-2026)

6.3 APAC Semiconductor Residual Gas Analyzer Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Semiconductor Residual Gas Analyzer by Country

7.1.1 Europe Semiconductor Residual Gas Analyzer Sales by Country (2021-2026)

7.1.2 Europe Semiconductor Residual Gas Analyzer Revenue by Country (2021-2026)

7.2 Europe Semiconductor Residual Gas Analyzer Sales by Type (2021-2026)

7.3 Europe Semiconductor Residual Gas Analyzer Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Semiconductor Residual Gas Analyzer by Country

8.1.1 Middle East & Africa Semiconductor Residual Gas Analyzer Sales by Country (2021-2026)

8.1.2 Middle East & Africa Semiconductor Residual Gas Analyzer Revenue by Country (2021-2026)

8.2 Middle East & Africa Semiconductor Residual Gas Analyzer Sales by Type
(2021-2026)

8.3 Middle East & Africa Semiconductor Residual Gas Analyzer Sales by Application
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Semiconductor Residual Gas Analyzer

10.3 Manufacturing Process Analysis of Semiconductor Residual Gas Analyzer

10.4 Industry Chain Structure of Semiconductor Residual Gas Analyzer

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Semiconductor Residual Gas Analyzer Distributors

11.3 Semiconductor Residual Gas Analyzer Customer

12 WORLD FORECAST REVIEW FOR SEMICONDUCTOR RESIDUAL GAS ANALYZER BY GEOGRAPHIC REGION

12.1 Global Semiconductor Residual Gas Analyzer Market Size Forecast by Region

12.1.1 Global Semiconductor Residual Gas Analyzer Forecast by Region (2027-2032)

12.1.2 Global Semiconductor Residual Gas Analyzer Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Semiconductor Residual Gas Analyzer Forecast by Type (2027-2032)
- 12.7 Global Semiconductor Residual Gas Analyzer Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Inficon

13.1.1 Inficon Company Information

13.1.2 Inficon Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

13.1.3 Inficon Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Inficon Main Business Overview

13.1.5 Inficon Latest Developments

13.2 ULVAC Technologies

13.2.1 ULVAC Technologies Company Information

13.2.2 ULVAC Technologies Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

13.2.3 ULVAC Technologies Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 ULVAC Technologies Main Business Overview

13.2.5 ULVAC Technologies Latest Developments

13.3 MKS Instruments

13.3.1 MKS Instruments Company Information

13.3.2 MKS Instruments Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

13.3.3 MKS Instruments Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 MKS Instruments Main Business Overview

13.3.5 MKS Instruments Latest Developments

13.4 Stanford Research Systems (SRS)

13.4.1 Stanford Research Systems (SRS) Company Information

13.4.2 Stanford Research Systems (SRS) Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

13.4.3 Stanford Research Systems (SRS) Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Stanford Research Systems (SRS) Main Business Overview

- 13.4.5 Stanford Research Systems (SRS) Latest Developments
- 13.5 Pfeiffer Vacuum
 - 13.5.1 Pfeiffer Vacuum Company Information
 - 13.5.2 Pfeiffer Vacuum Semiconductor Residual Gas Analyzer Product Portfolios and Specifications
 - 13.5.3 Pfeiffer Vacuum Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Pfeiffer Vacuum Main Business Overview
 - 13.5.5 Pfeiffer Vacuum Latest Developments
- 13.6 Edwards Vacuum
 - 13.6.1 Edwards Vacuum Company Information
 - 13.6.2 Edwards Vacuum Semiconductor Residual Gas Analyzer Product Portfolios and Specifications
 - 13.6.3 Edwards Vacuum Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Edwards Vacuum Main Business Overview
 - 13.6.5 Edwards Vacuum Latest Developments
- 13.7 Extorr
 - 13.7.1 Extorr Company Information
 - 13.7.2 Extorr Semiconductor Residual Gas Analyzer Product Portfolios and Specifications
 - 13.7.3 Extorr Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Extorr Main Business Overview
 - 13.7.5 Extorr Latest Developments
- 13.8 Horiba
 - 13.8.1 Horiba Company Information
 - 13.8.2 Horiba Semiconductor Residual Gas Analyzer Product Portfolios and Specifications
 - 13.8.3 Horiba Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Horiba Main Business Overview
 - 13.8.5 Horiba Latest Developments
- 13.9 Process Insights(Extrel CMS)
 - 13.9.1 Process Insights(Extrel CMS) Company Information
 - 13.9.2 Process Insights(Extrel CMS) Semiconductor Residual Gas Analyzer Product Portfolios and Specifications
 - 13.9.3 Process Insights(Extrel CMS) Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.9.4 Process Insights(Extrel CMS) Main Business Overview
- 13.9.5 Process Insights(Extrel CMS) Latest Developments
- 13.10 Hiden Analytical
 - 13.10.1 Hiden Analytical Company Information
 - 13.10.2 Hiden Analytical Semiconductor Residual Gas Analyzer Product Portfolios and Specifications
 - 13.10.3 Hiden Analytical Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Hiden Analytical Main Business Overview
 - 13.10.5 Hiden Analytical Latest Developments
- 13.11 Leybold
 - 13.11.1 Leybold Company Information
 - 13.11.2 Leybold Semiconductor Residual Gas Analyzer Product Portfolios and Specifications
 - 13.11.3 Leybold Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Leybold Main Business Overview
 - 13.11.5 Leybold Latest Developments
- 13.12 Shanghai Accurate Technologies
 - 13.12.1 Shanghai Accurate Technologies Company Information
 - 13.12.2 Shanghai Accurate Technologies Semiconductor Residual Gas Analyzer Product Portfolios and Specifications
 - 13.12.3 Shanghai Accurate Technologies Semiconductor Residual Gas Analyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Shanghai Accurate Technologies Main Business Overview
 - 13.12.5 Shanghai Accurate Technologies Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Semiconductor Residual Gas Analyzer Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Semiconductor Residual Gas Analyzer Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Mass Number Range 1-100 amu

Table 4. Major Players of Mass Number Range 1-200 amu

Table 5. Major Players of Mass Number Range 1-300 amu

Table 6. Global Semiconductor Residual Gas Analyzer Sales by Type (2021-2026) & (Units)

Table 7. Global Semiconductor Residual Gas Analyzer Sales Market Share by Type (2021-2026)

Table 8. Global Semiconductor Residual Gas Analyzer Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Type (2021-2026)

Table 10. Global Semiconductor Residual Gas Analyzer Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Portable

Table 12. Major Players of Desktop

Table 13. Global Semiconductor Residual Gas Analyzer Sales by Structural Form (2021-2026) & (Units)

Table 14. Global Semiconductor Residual Gas Analyzer Sales Market Share by Structural Form (2021-2026)

Table 15. Global Semiconductor Residual Gas Analyzer Revenue by Structural Form (2021-2026) & (\$ million)

Table 16. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Structural Form (2021-2026)

Table 17. Global Semiconductor Residual Gas Analyzer Sale Price by Structural Form (2021-2026) & (US\$/Unit)

Table 18. Major Players of FC

Table 19. Major Players of EM

Table 20. Global Semiconductor Residual Gas Analyzer Sales by Detector Type (2021-2026) & (Units)

Table 21. Global Semiconductor Residual Gas Analyzer Sales Market Share by Detector Type (2021-2026)

Table 22. Global Semiconductor Residual Gas Analyzer Revenue by Detector Type (2021-2026) & (\$ million)

Table 23. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Detector Type (2021-2026)

Table 24. Global Semiconductor Residual Gas Analyzer Sale Price by Detector Type (2021-2026) & (US\$/Unit)

Table 25. Global Semiconductor Residual Gas Analyzer Sale by Application (2021-2026) & (Units)

Table 26. Global Semiconductor Residual Gas Analyzer Sale Market Share by Application (2021-2026)

Table 27. Global Semiconductor Residual Gas Analyzer Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Application (2021-2026)

Table 29. Global Semiconductor Residual Gas Analyzer Sale Price by Application (2021-2026) & (US\$/Unit)

Table 30. Global Semiconductor Residual Gas Analyzer Sales by Company (2021-2026) & (Units)

Table 31. Global Semiconductor Residual Gas Analyzer Sales Market Share by Company (2021-2026)

Table 32. Global Semiconductor Residual Gas Analyzer Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Company (2021-2026)

Table 34. Global Semiconductor Residual Gas Analyzer Sale Price by Company (2021-2026) & (US\$/Unit)

Table 35. Key Manufacturers Semiconductor Residual Gas Analyzer Producing Area Distribution and Sales Area

Table 36. Players Semiconductor Residual Gas Analyzer Products Offered

Table 37. Semiconductor Residual Gas Analyzer Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global Semiconductor Residual Gas Analyzer Sales by Geographic Region (2021-2026) & (Units)

Table 41. Global Semiconductor Residual Gas Analyzer Sales Market Share Geographic Region (2021-2026)

Table 42. Global Semiconductor Residual Gas Analyzer Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global Semiconductor Residual Gas Analyzer Sales by Country/Region (2021-2026) & (Units)

Table 45. Global Semiconductor Residual Gas Analyzer Sales Market Share by Country/Region (2021-2026)

Table 46. Global Semiconductor Residual Gas Analyzer Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Semiconductor Residual Gas Analyzer Sales by Country (2021-2026) & (Units)

Table 49. Americas Semiconductor Residual Gas Analyzer Sales Market Share by Country (2021-2026)

Table 50. Americas Semiconductor Residual Gas Analyzer Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Semiconductor Residual Gas Analyzer Sales by Type (2021-2026) & (Units)

Table 52. Americas Semiconductor Residual Gas Analyzer Sales by Application (2021-2026) & (Units)

Table 53. APAC Semiconductor Residual Gas Analyzer Sales by Region (2021-2026) & (Units)

Table 54. APAC Semiconductor Residual Gas Analyzer Sales Market Share by Region (2021-2026)

Table 55. APAC Semiconductor Residual Gas Analyzer Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Semiconductor Residual Gas Analyzer Sales by Type (2021-2026) & (Units)

Table 57. APAC Semiconductor Residual Gas Analyzer Sales by Application (2021-2026) & (Units)

Table 58. Europe Semiconductor Residual Gas Analyzer Sales by Country (2021-2026) & (Units)

Table 59. Europe Semiconductor Residual Gas Analyzer Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Semiconductor Residual Gas Analyzer Sales by Type (2021-2026) & (Units)

Table 61. Europe Semiconductor Residual Gas Analyzer Sales by Application (2021-2026) & (Units)

Table 62. Middle East & Africa Semiconductor Residual Gas Analyzer Sales by Country

(2021-2026) & (Units)

Table 63. Middle East & Africa Semiconductor Residual Gas Analyzer Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa Semiconductor Residual Gas Analyzer Sales by Type (2021-2026) & (Units)

Table 65. Middle East & Africa Semiconductor Residual Gas Analyzer Sales by Application (2021-2026) & (Units)

Table 66. Key Market Drivers & Growth Opportunities of Semiconductor Residual Gas Analyzer

Table 67. Key Market Challenges & Risks of Semiconductor Residual Gas Analyzer

Table 68. Key Industry Trends of Semiconductor Residual Gas Analyzer

Table 69. Semiconductor Residual Gas Analyzer Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. Semiconductor Residual Gas Analyzer Distributors List

Table 72. Semiconductor Residual Gas Analyzer Customer List

Table 73. Global Semiconductor Residual Gas Analyzer Sales Forecast by Region (2027-2032) & (Units)

Table 74. Global Semiconductor Residual Gas Analyzer Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas Semiconductor Residual Gas Analyzer Sales Forecast by Country (2027-2032) & (Units)

Table 76. Americas Semiconductor Residual Gas Analyzer Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC Semiconductor Residual Gas Analyzer Sales Forecast by Region (2027-2032) & (Units)

Table 78. APAC Semiconductor Residual Gas Analyzer Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe Semiconductor Residual Gas Analyzer Sales Forecast by Country (2027-2032) & (Units)

Table 80. Europe Semiconductor Residual Gas Analyzer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa Semiconductor Residual Gas Analyzer Sales Forecast by Country (2027-2032) & (Units)

Table 82. Middle East & Africa Semiconductor Residual Gas Analyzer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global Semiconductor Residual Gas Analyzer Sales Forecast by Type (2027-2032) & (Units)

Table 84. Global Semiconductor Residual Gas Analyzer Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global Semiconductor Residual Gas Analyzer Sales Forecast by Application (2027-2032) & (Units)

Table 86. Global Semiconductor Residual Gas Analyzer Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Inficon Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 88. Inficon Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 89. Inficon Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Inficon Main Business

Table 91. Inficon Latest Developments

Table 92. ULVAC Technologies Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 93. ULVAC Technologies Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 94. ULVAC Technologies Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. ULVAC Technologies Main Business

Table 96. ULVAC Technologies Latest Developments

Table 97. MKS Instruments Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 98. MKS Instruments Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 99. MKS Instruments Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. MKS Instruments Main Business

Table 101. MKS Instruments Latest Developments

Table 102. Stanford Research Systems (SRS) Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 103. Stanford Research Systems (SRS) Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 104. Stanford Research Systems (SRS) Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Stanford Research Systems (SRS) Main Business

Table 106. Stanford Research Systems (SRS) Latest Developments

Table 107. Pfeiffer Vacuum Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 108. Pfeiffer Vacuum Semiconductor Residual Gas Analyzer Product Portfolios

and Specifications

Table 109. Pfeiffer Vacuum Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Pfeiffer Vacuum Main Business

Table 111. Pfeiffer Vacuum Latest Developments

Table 112. Edwards Vacuum Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 113. Edwards Vacuum Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 114. Edwards Vacuum Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Edwards Vacuum Main Business

Table 116. Edwards Vacuum Latest Developments

Table 117. Extorr Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 118. Extorr Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 119. Extorr Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. Extorr Main Business

Table 121. Extorr Latest Developments

Table 122. Horiba Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 123. Horiba Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 124. Horiba Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. Horiba Main Business

Table 126. Horiba Latest Developments

Table 127. Process Insights(Extrel CMS) Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 128. Process Insights(Extrel CMS) Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 129. Process Insights(Extrel CMS) Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Process Insights(Extrel CMS) Main Business

Table 131. Process Insights(Extrel CMS) Latest Developments

Table 132. Hiden Analytical Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 133. Hiden Analytical Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 134. Hiden Analytical Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Hiden Analytical Main Business

Table 136. Hiden Analytical Latest Developments

Table 137. Leybold Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 138. Leybold Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 139. Leybold Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. Leybold Main Business

Table 141. Leybold Latest Developments

Table 142. Shanghai Accurate Technologies Basic Information, Semiconductor Residual Gas Analyzer Manufacturing Base, Sales Area and Its Competitors

Table 143. Shanghai Accurate Technologies Semiconductor Residual Gas Analyzer Product Portfolios and Specifications

Table 144. Shanghai Accurate Technologies Semiconductor Residual Gas Analyzer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 145. Shanghai Accurate Technologies Main Business

Table 146. Shanghai Accurate Technologies Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Semiconductor Residual Gas Analyzer
- Figure 2. Semiconductor Residual Gas Analyzer Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Semiconductor Residual Gas Analyzer Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Semiconductor Residual Gas Analyzer Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Semiconductor Residual Gas Analyzer Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Semiconductor Residual Gas Analyzer Sales Market Share by Country/Region (2025)
- Figure 10. Semiconductor Residual Gas Analyzer Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Mass Number Range 1-100 amu
- Figure 12. Product Picture of Mass Number Range 1-200 amu
- Figure 13. Product Picture of Mass Number Range 1-300 amu
- Figure 14. Global Semiconductor Residual Gas Analyzer Sales Market Share by Type in 2026
- Figure 15. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Portable
- Figure 17. Product Picture of Desktop
- Figure 18. Global Semiconductor Residual Gas Analyzer Sales Market Share by Structural Form in 2026
- Figure 19. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Structural Form (2021-2026)
- Figure 20. Product Picture of FC
- Figure 21. Product Picture of EM
- Figure 22. Global Semiconductor Residual Gas Analyzer Sales Market Share by Detector Type in 2026
- Figure 23. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Detector Type (2021-2026)
- Figure 24. Semiconductor Residual Gas Analyzer Consumed in IDM

Figure 25. Global Semiconductor Residual Gas Analyzer Market: IDM (2021-2026) & (Units)

Figure 26. Semiconductor Residual Gas Analyzer Consumed in Foundry

Figure 27. Global Semiconductor Residual Gas Analyzer Market: Foundry (2021-2026) & (Units)

Figure 28. Global Semiconductor Residual Gas Analyzer Sale Market Share by Application (2025)

Figure 29. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Application in 2025

Figure 30. Semiconductor Residual Gas Analyzer Sales by Company in 2025 (Units)

Figure 31. Global Semiconductor Residual Gas Analyzer Sales Market Share by Company in 2025

Figure 32. Semiconductor Residual Gas Analyzer Revenue by Company in 2025 (\$ millions)

Figure 33. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Company in 2025

Figure 34. Global Semiconductor Residual Gas Analyzer Sales Market Share by Geographic Region (2021-2026)

Figure 35. Global Semiconductor Residual Gas Analyzer Revenue Market Share by Geographic Region in 2025

Figure 36. Americas Semiconductor Residual Gas Analyzer Sales 2021-2026 (Units)

Figure 37. Americas Semiconductor Residual Gas Analyzer Revenue 2021-2026 (\$ millions)

Figure 38. APAC Semiconductor Residual Gas Analyzer Sales 2021-2026 (Units)

Figure 39. APAC Semiconductor Residual Gas Analyzer Revenue 2021-2026 (\$ millions)

Figure 40. Europe Semiconductor Residual Gas Analyzer Sales 2021-2026 (Units)

Figure 41. Europe Semiconductor Residual Gas Analyzer Revenue 2021-2026 (\$ millions)

Figure 42. Middle East & Africa Semiconductor Residual Gas Analyzer Sales 2021-2026 (Units)

Figure 43. Middle East & Africa Semiconductor Residual Gas Analyzer Revenue 2021-2026 (\$ millions)

Figure 44. Americas Semiconductor Residual Gas Analyzer Sales Market Share by Country in 2025

Figure 45. Americas Semiconductor Residual Gas Analyzer Revenue Market Share by Country (2021-2026)

Figure 46. Americas Semiconductor Residual Gas Analyzer Sales Market Share by Type (2021-2026)

Figure 47. Americas Semiconductor Residual Gas Analyzer Sales Market Share by Application (2021-2026)

Figure 48. United States Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 49. Canada Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 50. Mexico Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 51. Brazil Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 52. APAC Semiconductor Residual Gas Analyzer Sales Market Share by Region in 2025

Figure 53. APAC Semiconductor Residual Gas Analyzer Revenue Market Share by Region (2021-2026)

Figure 54. APAC Semiconductor Residual Gas Analyzer Sales Market Share by Type (2021-2026)

Figure 55. APAC Semiconductor Residual Gas Analyzer Sales Market Share by Application (2021-2026)

Figure 56. China Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 57. Japan Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 58. South Korea Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 59. Southeast Asia Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 60. India Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 61. Australia Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 62. China Taiwan Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 63. Europe Semiconductor Residual Gas Analyzer Sales Market Share by Country in 2025

Figure 64. Europe Semiconductor Residual Gas Analyzer Revenue Market Share by Country (2021-2026)

Figure 65. Europe Semiconductor Residual Gas Analyzer Sales Market Share by Type (2021-2026)

Figure 66. Europe Semiconductor Residual Gas Analyzer Sales Market Share by

Application (2021-2026)

Figure 67. Germany Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 68. France Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 69. UK Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 70. Italy Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 71. Russia Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 72. Middle East & Africa Semiconductor Residual Gas Analyzer Sales Market Share by Country (2021-2026)

Figure 73. Middle East & Africa Semiconductor Residual Gas Analyzer Sales Market Share by Type (2021-2026)

Figure 74. Middle East & Africa Semiconductor Residual Gas Analyzer Sales Market Share by Application (2021-2026)

Figure 75. Egypt Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 76. South Africa Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 77. Israel Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 78. Turkey Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 79. GCC Countries Semiconductor Residual Gas Analyzer Revenue Growth 2021-2026 (\$ millions)

Figure 80. Manufacturing Cost Structure Analysis of Semiconductor Residual Gas Analyzer in 2026

Figure 81. Manufacturing Process Analysis of Semiconductor Residual Gas Analyzer

Figure 82. Industry Chain Structure of Semiconductor Residual Gas Analyzer

Figure 83. Channels of Distribution

Figure 84. Global Semiconductor Residual Gas Analyzer Sales Market Forecast by Region (2027-2032)

Figure 85. Global Semiconductor Residual Gas Analyzer Revenue Market Share Forecast by Region (2027-2032)

Figure 86. Global Semiconductor Residual Gas Analyzer Sales Market Share Forecast by Type (2027-2032)

Figure 87. Global Semiconductor Residual Gas Analyzer Revenue Market Share

Forecast by Type (2027-2032)

Figure 88. Global Semiconductor Residual Gas Analyzer Sales Market Share Forecast by Application (2027-2032)

Figure 89. Global Semiconductor Residual Gas Analyzer Revenue Market Share Forecast by Application (2027-2032)

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