

Global PECVD System 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 PECVD System market size was valued at US\$ 2490 million in 2025 and is forecast to a readjusted size of US\$ 4013 million by 2032 with a CAGR of 7.0% during review period.

In 2025, global PECVD system production capacity is approximately 1,400 units, with actual production reaching around 1,100 units. The average global selling price is about US\$ 2.2 million per unit, and gross margins generally range from 42% to 52%, supported by broad application coverage and stable demand across multiple semiconductor segments. A Plasma-Enhanced Chemical Vapor Deposition (PECVD) System is a semiconductor manufacturing tool used to deposit dielectric thin films by activating chemical reactions with plasma energy at relatively low temperatures. PECVD systems are capable of depositing a wide range of dielectric materials, including silicon dioxide (SiO₂), silicon nitride (SiN_x), silicon oxynitride (SiON), and low-k films. By enabling low-temperature processing with good step coverage and uniformity, PECVD systems are widely used in front-end-of-line (FEOL), middle-of-line (MOL), and back-end-of-line (BEOL) processes for insulation, passivation, etch-stop, and stress engineering applications.

Upstream segments of the PECVD industry chain include specialty process gases (silane, ammonia, nitrous oxide, TEOS), RF power supplies, vacuum pumps, gas delivery systems, chamber materials, and temperature control modules. The midstream focuses on equipment design and manufacturing, covering plasma uniformity control, film stress and composition tuning, particle contamination management, throughput optimization, and system integration—forming the core value-added segment. Downstream customers include logic foundries, memory manufacturers, power semiconductor fabs, and advanced packaging lines. The industry chain further extends

to consumables supply, chamber cleaning, preventive maintenance, process upgrades, and long-term service contracts.

The PECVD system market remains one of the largest and most stable segments in semiconductor equipment, supported by its broad applicability across multiple process stages. As device architectures continue to evolve, PECVD maintains its relevance by offering flexible film property control, low-temperature processing, and high throughput.

In advanced logic and memory manufacturing, PECVD is increasingly used for stress engineering, spacer formation, and advanced passivation layers, while in power devices and advanced packaging it remains a workhorse technology. Although alternative techniques such as ALD are gaining share in ultra-thin and high-aspect-ratio applications, PECVD retains clear advantages in cost efficiency and productivity for many dielectric layers. Continuous improvements in plasma control, film quality, and chamber productivity further enhance its competitiveness. Backed by sustained fab expansions and technology upgrades, the PECVD system market is expected to maintain steady, moderate growth with strong long-term demand fundamentals.

This report is a detailed and comprehensive analysis for global PECVD System 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 PECVD System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

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

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

Global PECVD System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 PECVD System

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 PECVD System 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 Applied Materials, Lam Research, Tokyo Electron, ASM International, CVD Equipment Corporation, Samco, Plasma-Therm, Oxford Instruments, ULVAC, Veeco Instruments, etc.

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

Market Segmentation

PECVD System 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

Silicon Oxide (SiO₂)

Silicon Nitride (SiN)

Silicon Oxynitride (SiON)

High-k Dielectrics (HfO₂, Al₂O₃, ZrO₂)

Others

Market segment by Wafer Size

6-inches

8-inches

12-inches

Others

Market segment by Application

Integrated Circuits

Advanced Packaging

Scientific Research

Others

Major players covered

Applied Materials

Lam Research

Tokyo Electron

ASM International

CVD Equipment Corporation

Samco

Plasma-Therm

Oxford Instruments

ULVAC

Veeco Instruments

NAURA

Piotech

Hitachi

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 PECVD System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PECVD System, with price, sales quantity, revenue, and global market share of PECVD System from 2021 to 2026.

Chapter 3, the PECVD System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PECVD System 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 PECVD System 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 PECVD System.

Chapter 14 and 15, to describe PECVD System 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 PECVD System Consumption Value by Type: 2021 Versus 2025 Versus 2032
 - 1.3.2 Silicon Oxide (SiO₂)
 - 1.3.3 Silicon Nitride (SiN)
 - 1.3.4 Silicon Oxynitride (SiON)
 - 1.3.5 High-k Dielectrics (HfO₂, Al₂O₃, ZrO₂)
 - 1.3.6 Others
- 1.4 Market Analysis by Wafer Size
 - 1.4.1 Overview: Global PECVD System Consumption Value by Wafer Size: 2021 Versus 2025 Versus 2032
 - 1.4.2 6-inches
 - 1.4.3 8-inches
 - 1.4.4 12-inches
 - 1.4.5 Others
- 1.5 Market Analysis by Application
 - 1.5.1 Overview: Global PECVD System Consumption Value by Application: 2021 Versus 2025 Versus 2032
 - 1.5.2 Integrated Circuits
 - 1.5.3 Advanced Packaging
 - 1.5.4 Scientific Research
 - 1.5.5 Others
- 1.6 Global PECVD System Market Size & Forecast
 - 1.6.1 Global PECVD System Consumption Value (2021 & 2025 & 2032)
 - 1.6.2 Global PECVD System Sales Quantity (2021-2032)
 - 1.6.3 Global PECVD System Average Price (2021-2032)

2 MANUFACTURERS PROFILES

- 2.1 Applied Materials
 - 2.1.1 Applied Materials Details
 - 2.1.2 Applied Materials Major Business
 - 2.1.3 Applied Materials PECVD System Product and Services

2.1.4 Applied Materials PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Applied Materials Recent Developments/Updates

2.2 Lam Research

2.2.1 Lam Research Details

2.2.2 Lam Research Major Business

2.2.3 Lam Research PECVD System Product and Services

2.2.4 Lam Research PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Lam Research Recent Developments/Updates

2.3 Tokyo Electron

2.3.1 Tokyo Electron Details

2.3.2 Tokyo Electron Major Business

2.3.3 Tokyo Electron PECVD System Product and Services

2.3.4 Tokyo Electron PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Tokyo Electron Recent Developments/Updates

2.4 ASM International

2.4.1 ASM International Details

2.4.2 ASM International Major Business

2.4.3 ASM International PECVD System Product and Services

2.4.4 ASM International PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 ASM International Recent Developments/Updates

2.5 CVD Equipment Corporation

2.5.1 CVD Equipment Corporation Details

2.5.2 CVD Equipment Corporation Major Business

2.5.3 CVD Equipment Corporation PECVD System Product and Services

2.5.4 CVD Equipment Corporation PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 CVD Equipment Corporation Recent Developments/Updates

2.6 Samco

2.6.1 Samco Details

2.6.2 Samco Major Business

2.6.3 Samco PECVD System Product and Services

2.6.4 Samco PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Samco Recent Developments/Updates

2.7 Plasma-Therm

- 2.7.1 Plasma-Therm Details
- 2.7.2 Plasma-Therm Major Business
- 2.7.3 Plasma-Therm PECVD System Product and Services
- 2.7.4 Plasma-Therm PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Plasma-Therm Recent Developments/Updates
- 2.8 Oxford Instruments
 - 2.8.1 Oxford Instruments Details
 - 2.8.2 Oxford Instruments Major Business
 - 2.8.3 Oxford Instruments PECVD System Product and Services
 - 2.8.4 Oxford Instruments PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Oxford Instruments Recent Developments/Updates
- 2.9 ULVAC
 - 2.9.1 ULVAC Details
 - 2.9.2 ULVAC Major Business
 - 2.9.3 ULVAC PECVD System Product and Services
 - 2.9.4 ULVAC PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 ULVAC Recent Developments/Updates
- 2.10 Veeco Instruments
 - 2.10.1 Veeco Instruments Details
 - 2.10.2 Veeco Instruments Major Business
 - 2.10.3 Veeco Instruments PECVD System Product and Services
 - 2.10.4 Veeco Instruments PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Veeco Instruments Recent Developments/Updates
- 2.11 NAURA
 - 2.11.1 NAURA Details
 - 2.11.2 NAURA Major Business
 - 2.11.3 NAURA PECVD System Product and Services
 - 2.11.4 NAURA PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 NAURA Recent Developments/Updates
- 2.12 Piotech
 - 2.12.1 Piotech Details
 - 2.12.2 Piotech Major Business
 - 2.12.3 Piotech PECVD System Product and Services
 - 2.12.4 Piotech PECVD System Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2021-2026)

2.12.5 Piotech Recent Developments/Updates

2.13 Hitachi

2.13.1 Hitachi Details

2.13.2 Hitachi Major Business

2.13.3 Hitachi PECVD System Product and Services

2.13.4 Hitachi PECVD System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Hitachi Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PECVD SYSTEM BY MANUFACTURER

3.1 Global PECVD System Sales Quantity by Manufacturer (2021-2026)

3.2 Global PECVD System Revenue by Manufacturer (2021-2026)

3.3 Global PECVD System Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of PECVD System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 PECVD System Manufacturer Market Share in 2025

3.4.3 Top 6 PECVD System Manufacturer Market Share in 2025

3.5 PECVD System Market: Overall Company Footprint Analysis

3.5.1 PECVD System Market: Region Footprint

3.5.2 PECVD System Market: Company Product Type Footprint

3.5.3 PECVD System 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 PECVD System Market Size by Region

4.1.1 Global PECVD System Sales Quantity by Region (2021-2032)

4.1.2 Global PECVD System Consumption Value by Region (2021-2032)

4.1.3 Global PECVD System Average Price by Region (2021-2032)

4.2 North America PECVD System Consumption Value (2021-2032)

4.3 Europe PECVD System Consumption Value (2021-2032)

4.4 Asia-Pacific PECVD System Consumption Value (2021-2032)

4.5 South America PECVD System Consumption Value (2021-2032)

4.6 Middle East & Africa PECVD System Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global PECVD System Sales Quantity by Type (2021-2032)
- 5.2 Global PECVD System Consumption Value by Type (2021-2032)
- 5.3 Global PECVD System Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global PECVD System Sales Quantity by Application (2021-2032)
- 6.2 Global PECVD System Consumption Value by Application (2021-2032)
- 6.3 Global PECVD System Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America PECVD System Sales Quantity by Type (2021-2032)
- 7.2 North America PECVD System Sales Quantity by Application (2021-2032)
- 7.3 North America PECVD System Market Size by Country
 - 7.3.1 North America PECVD System Sales Quantity by Country (2021-2032)
 - 7.3.2 North America PECVD System 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 PECVD System Sales Quantity by Type (2021-2032)
- 8.2 Europe PECVD System Sales Quantity by Application (2021-2032)
- 8.3 Europe PECVD System Market Size by Country
 - 8.3.1 Europe PECVD System Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe PECVD System 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 PECVD System Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific PECVD System Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific PECVD System Market Size by Region

9.3.1 Asia-Pacific PECVD System Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific PECVD System 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 PECVD System Sales Quantity by Type (2021-2032)

10.2 South America PECVD System Sales Quantity by Application (2021-2032)

10.3 South America PECVD System Market Size by Country

10.3.1 South America PECVD System Sales Quantity by Country (2021-2032)

10.3.2 South America PECVD System 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 PECVD System Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa PECVD System Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa PECVD System Market Size by Country

11.3.1 Middle East & Africa PECVD System Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa PECVD System 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 PECVD System Market Drivers

12.2 PECVD System Market Restraints

12.3 PECVD System 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 PECVD System and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of PECVD System
- 13.3 PECVD System 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 PECVD System Typical Distributors
- 14.3 PECVD System 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 PECVD System Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global PECVD System Consumption Value by Wafer Size, (USD Million), 2021 & 2025 & 2032

Table 3. Global PECVD System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Applied Materials Basic Information, Manufacturing Base and Competitors

Table 5. Applied Materials Major Business

Table 6. Applied Materials PECVD System Product and Services

Table 7. Applied Materials PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Applied Materials Recent Developments/Updates

Table 9. Lam Research Basic Information, Manufacturing Base and Competitors

Table 10. Lam Research Major Business

Table 11. Lam Research PECVD System Product and Services

Table 12. Lam Research PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Lam Research Recent Developments/Updates

Table 14. Tokyo Electron Basic Information, Manufacturing Base and Competitors

Table 15. Tokyo Electron Major Business

Table 16. Tokyo Electron PECVD System Product and Services

Table 17. Tokyo Electron PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Tokyo Electron Recent Developments/Updates

Table 19. ASM International Basic Information, Manufacturing Base and Competitors

Table 20. ASM International Major Business

Table 21. ASM International PECVD System Product and Services

Table 22. ASM International PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. ASM International Recent Developments/Updates

Table 24. CVD Equipment Corporation Basic Information, Manufacturing Base and Competitors

Table 25. CVD Equipment Corporation Major Business

Table 26. CVD Equipment Corporation PECVD System Product and Services

Table 27. CVD Equipment Corporation PECVD System Sales Quantity (Units), Average

Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. CVD Equipment Corporation Recent Developments/Updates

Table 29. Samco Basic Information, Manufacturing Base and Competitors

Table 30. Samco Major Business

Table 31. Samco PECVD System Product and Services

Table 32. Samco PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. Samco Recent Developments/Updates

Table 34. Plasma-Therm Basic Information, Manufacturing Base and Competitors

Table 35. Plasma-Therm Major Business

Table 36. Plasma-Therm PECVD System Product and Services

Table 37. Plasma-Therm PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Plasma-Therm Recent Developments/Updates

Table 39. Oxford Instruments Basic Information, Manufacturing Base and Competitors

Table 40. Oxford Instruments Major Business

Table 41. Oxford Instruments PECVD System Product and Services

Table 42. Oxford Instruments PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. Oxford Instruments Recent Developments/Updates

Table 44. ULVAC Basic Information, Manufacturing Base and Competitors

Table 45. ULVAC Major Business

Table 46. ULVAC PECVD System Product and Services

Table 47. ULVAC PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. ULVAC Recent Developments/Updates

Table 49. Veeco Instruments Basic Information, Manufacturing Base and Competitors

Table 50. Veeco Instruments Major Business

Table 51. Veeco Instruments PECVD System Product and Services

Table 52. Veeco Instruments PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Veeco Instruments Recent Developments/Updates

Table 54. NAURA Basic Information, Manufacturing Base and Competitors

Table 55. NAURA Major Business

Table 56. NAURA PECVD System Product and Services

Table 57. NAURA PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. NAURA Recent Developments/Updates

- Table 59. Piotech Basic Information, Manufacturing Base and Competitors
- Table 60. Piotech Major Business
- Table 61. Piotech PECVD System Product and Services
- Table 62. Piotech PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 63. Piotech Recent Developments/Updates
- Table 64. Hitachi Basic Information, Manufacturing Base and Competitors
- Table 65. Hitachi Major Business
- Table 66. Hitachi PECVD System Product and Services
- Table 67. Hitachi PECVD System Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 68. Hitachi Recent Developments/Updates
- Table 69. Global PECVD System Sales Quantity by Manufacturer (2021-2026) & (Units)
- Table 70. Global PECVD System Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 71. Global PECVD System Average Price by Manufacturer (2021-2026) & (K US\$/Unit)
- Table 72. Market Position of Manufacturers in PECVD System, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 73. Head Office and PECVD System Production Site of Key Manufacturer
- Table 74. PECVD System Market: Company Product Type Footprint
- Table 75. PECVD System Market: Company Product Application Footprint
- Table 76. PECVD System New Market Entrants and Barriers to Market Entry
- Table 77. PECVD System Mergers, Acquisition, Agreements, and Collaborations
- Table 78. Global PECVD System Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 79. Global PECVD System Sales Quantity by Region (2021-2026) & (Units)
- Table 80. Global PECVD System Sales Quantity by Region (2027-2032) & (Units)
- Table 81. Global PECVD System Consumption Value by Region (2021-2026) & (USD Million)
- Table 82. Global PECVD System Consumption Value by Region (2027-2032) & (USD Million)
- Table 83. Global PECVD System Average Price by Region (2021-2026) & (K US\$/Unit)
- Table 84. Global PECVD System Average Price by Region (2027-2032) & (K US\$/Unit)
- Table 85. Global PECVD System Sales Quantity by Type (2021-2026) & (Units)
- Table 86. Global PECVD System Sales Quantity by Type (2027-2032) & (Units)
- Table 87. Global PECVD System Consumption Value by Type (2021-2026) & (USD Million)
- Table 88. Global PECVD System Consumption Value by Type (2027-2032) & (USD Million)

Million)

Table 89. Global PECVD System Average Price by Type (2021-2026) & (K US\$/Unit)

Table 90. Global PECVD System Average Price by Type (2027-2032) & (K US\$/Unit)

Table 91. Global PECVD System Sales Quantity by Application (2021-2026) & (Units)

Table 92. Global PECVD System Sales Quantity by Application (2027-2032) & (Units)

Table 93. Global PECVD System Consumption Value by Application (2021-2026) & (USD Million)

Table 94. Global PECVD System Consumption Value by Application (2027-2032) & (USD Million)

Table 95. Global PECVD System Average Price by Application (2021-2026) & (K US\$/Unit)

Table 96. Global PECVD System Average Price by Application (2027-2032) & (K US\$/Unit)

Table 97. North America PECVD System Sales Quantity by Type (2021-2026) & (Units)

Table 98. North America PECVD System Sales Quantity by Type (2027-2032) & (Units)

Table 99. North America PECVD System Sales Quantity by Application (2021-2026) & (Units)

Table 100. North America PECVD System Sales Quantity by Application (2027-2032) & (Units)

Table 101. North America PECVD System Sales Quantity by Country (2021-2026) & (Units)

Table 102. North America PECVD System Sales Quantity by Country (2027-2032) & (Units)

Table 103. North America PECVD System Consumption Value by Country (2021-2026) & (USD Million)

Table 104. North America PECVD System Consumption Value by Country (2027-2032) & (USD Million)

Table 105. Europe PECVD System Sales Quantity by Type (2021-2026) & (Units)

Table 106. Europe PECVD System Sales Quantity by Type (2027-2032) & (Units)

Table 107. Europe PECVD System Sales Quantity by Application (2021-2026) & (Units)

Table 108. Europe PECVD System Sales Quantity by Application (2027-2032) & (Units)

Table 109. Europe PECVD System Sales Quantity by Country (2021-2026) & (Units)

Table 110. Europe PECVD System Sales Quantity by Country (2027-2032) & (Units)

Table 111. Europe PECVD System Consumption Value by Country (2021-2026) & (USD Million)

Table 112. Europe PECVD System Consumption Value by Country (2027-2032) & (USD Million)

Table 113. Asia-Pacific PECVD System Sales Quantity by Type (2021-2026) & (Units)

Table 114. Asia-Pacific PECVD System Sales Quantity by Type (2027-2032) & (Units)

Table 115. Asia-Pacific PECVD System Sales Quantity by Application (2021-2026) & (Units)

Table 116. Asia-Pacific PECVD System Sales Quantity by Application (2027-2032) & (Units)

Table 117. Asia-Pacific PECVD System Sales Quantity by Region (2021-2026) & (Units)

Table 118. Asia-Pacific PECVD System Sales Quantity by Region (2027-2032) & (Units)

Table 119. Asia-Pacific PECVD System Consumption Value by Region (2021-2026) & (USD Million)

Table 120. Asia-Pacific PECVD System Consumption Value by Region (2027-2032) & (USD Million)

Table 121. South America PECVD System Sales Quantity by Type (2021-2026) & (Units)

Table 122. South America PECVD System Sales Quantity by Type (2027-2032) & (Units)

Table 123. South America PECVD System Sales Quantity by Application (2021-2026) & (Units)

Table 124. South America PECVD System Sales Quantity by Application (2027-2032) & (Units)

Table 125. South America PECVD System Sales Quantity by Country (2021-2026) & (Units)

Table 126. South America PECVD System Sales Quantity by Country (2027-2032) & (Units)

Table 127. South America PECVD System Consumption Value by Country (2021-2026) & (USD Million)

Table 128. South America PECVD System Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Middle East & Africa PECVD System Sales Quantity by Type (2021-2026) & (Units)

Table 130. Middle East & Africa PECVD System Sales Quantity by Type (2027-2032) & (Units)

Table 131. Middle East & Africa PECVD System Sales Quantity by Application (2021-2026) & (Units)

Table 132. Middle East & Africa PECVD System Sales Quantity by Application (2027-2032) & (Units)

Table 133. Middle East & Africa PECVD System Sales Quantity by Country (2021-2026) & (Units)

Table 134. Middle East & Africa PECVD System Sales Quantity by Country (2027-2032)

& (Units)

Table 135. Middle East & Africa PECVD System Consumption Value by Country (2021-2026) & (USD Million)

Table 136. Middle East & Africa PECVD System Consumption Value by Country (2027-2032) & (USD Million)

Table 137. PECVD System Raw Material

Table 138. Key Manufacturers of PECVD System Raw Materials

Table 139. PECVD System Typical Distributors

Table 140. PECVD System Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. PECVD System Picture
- Figure 2. Global PECVD System Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global PECVD System Revenue Market Share by Type in 2025
- Figure 4. Silicon Oxide (SiO₂) Examples
- Figure 5. Silicon Nitride (SiN) Examples
- Figure 6. Silicon Oxynitride (SiON) Examples
- Figure 7. High-k Dielectrics (HfO₂, Al₂O₃, ZrO₂) Examples
- Figure 8. Others Examples
- Figure 9. Global PECVD System Revenue by Wafer Size, (USD Million), 2021 & 2025 & 2032
- Figure 10. Global PECVD System Revenue Market Share by Wafer Size in 2025
- Figure 11. 6-inches Examples
- Figure 12. 8-inches Examples
- Figure 13. 12-inches Examples
- Figure 14. Others Examples
- Figure 15. Global PECVD System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 16. Global PECVD System Revenue Market Share by Application in 2025
- Figure 17. Integrated Circuits Examples
- Figure 18. Advanced Packaging Examples
- Figure 19. Scientific Research Examples
- Figure 20. Others Examples
- Figure 21. Global PECVD System Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 22. Global PECVD System Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 23. Global PECVD System Sales Quantity (2021-2032) & (Units)
- Figure 24. Global PECVD System Price (2021-2032) & (K US\$/Unit)
- Figure 25. Global PECVD System Sales Quantity Market Share by Manufacturer in 2025
- Figure 26. Global PECVD System Revenue Market Share by Manufacturer in 2025
- Figure 27. Producer Shipments of PECVD System by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 28. Top 3 PECVD System Manufacturer (Revenue) Market Share in 2025
- Figure 29. Top 6 PECVD System Manufacturer (Revenue) Market Share in 2025

Figure 30. Global PECVD System Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global PECVD System Consumption Value Market Share by Region (2021-2032)

Figure 32. North America PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 35. South America PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 37. Global PECVD System Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global PECVD System Consumption Value Market Share by Type (2021-2032)

Figure 39. Global PECVD System Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 40. Global PECVD System Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global PECVD System Revenue Market Share by Application (2021-2032)

Figure 42. Global PECVD System Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 43. North America PECVD System Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America PECVD System Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America PECVD System Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America PECVD System Consumption Value Market Share by Country (2021-2032)

Figure 47. United States PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe PECVD System Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe PECVD System Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe PECVD System Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe PECVD System Consumption Value Market Share by Country

(2021-2032)

Figure 54. Germany PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 55. France PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific PECVD System Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific PECVD System Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific PECVD System Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific PECVD System Consumption Value Market Share by Region (2021-2032)

Figure 63. China PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 64. Japan PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 66. India PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 69. South America PECVD System Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America PECVD System Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America PECVD System Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America PECVD System Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa PECVD System Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa PECVD System Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa PECVD System Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa PECVD System Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa PECVD System Consumption Value (2021-2032) & (USD Million)

Figure 83. PECVD System Market Drivers

Figure 84. PECVD System Market Restraints

Figure 85. PECVD System Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of PECVD System in 2025

Figure 88. Manufacturing Process Analysis of PECVD System

Figure 89. PECVD System Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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