

Global Radiosynthesis Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Radiosynthesis Equipment market size is expected to reach \$ 54.38 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Radiosynthesis equipment, defined here strictly as automated radiosynthesis modules / radiosynthesizers, is the core production equipment that integrates medical radioisotopes from cyclotrons, generators, or reactors with precursors, reagents, disposable cassettes/fluidics, purification units, and control software to automate labeling, reaction, purification, formulation, and output of radiopharmaceuticals for PET, SPECT, and theranostic use. Upstream inputs are isotope supply, precursors/reagents, disposable cassettes, valves/pumps/sensors, software, and hot-cell integration; downstream customers are hospital nuclear medicine departments, commercial radiopharmacies, pharma/CDMOs, and research institutes. Based on public China tender data, a standalone module commonly sells in the range of RMB 0.78m~1.80m per unit; public proxy disclosures suggest blended gross margins of roughly 32%~49%, although pure equipment margins are usually lower than mixed business lines that include isotopes, licenses, and consumables.

Radiosynthesis equipment, as the core equipment for the R&D and production of nuclear medicine and radiopharmaceuticals, is mainly used for the precise synthesis, separation and purification of radioactive nuclides and radiopharmaceuticals. With the characteristics of high efficiency, safety and precision, it is widely used in global fields such as medical diagnosis, tumor treatment and scientific research experiments, and is a key support for promoting the development of the radiopharmaceutical industry and improving the level of precision medicine. Its global development is deeply linked to multiple trends, including the upgrading of the global nuclear medicine industry, the

increasing clinical demand for radiopharmaceuticals, technological iteration and the protection of public health. The continuous expansion of the global radiopharmaceutical market is the core driving force. The rising demand for precise diagnosis and treatment of major diseases such as cancer has promoted the transformation of radiopharmaceuticals towards targeting and diversification, forcing radiosynthesis equipment to upgrade towards automation and intelligence to adapt to the rapid synthesis needs of short-half-life nuclides and reduce the occupational radiation risk of operators. The continuous breakthroughs in nuclear medicine technology, especially the popularization of cyclotron and other related technologies, have further broadened the application boundaries of radiosynthesis equipment, promoting the transformation of equipment from laboratory R&D to large-scale production. The increasing requirements of countries around the world for the standardization and safety of radiopharmaceutical production, as well as the upgrading of nuclear medicine infrastructure in emerging markets, have released equipment market demand. The global layout and technological cooperation of leading enterprises have accelerated the global popularization of technological achievements and promoted the industry towards standardization.

Despite the continuous release of global demand for radiosynthesis equipment and the steady expansion of the industry scale, high-quality development still faces many challenges. High-end technology and core barriers are strict. Core technologies such as high-purity nuclide synthesis and efficient separation and purification, as well as the R&D and manufacturing capabilities of precision components and special target materials, are monopolized by a few international leading enterprises. Emerging manufacturers face large R&D investment and long technical breakthrough cycles, making it difficult to participate in high-end market competition. The R&D and production costs of equipment are high. The high cost of core materials and precision control systems, as well as the strict requirements for safe protection design, lead to high product pricing, restricting their large-scale popularization in emerging markets. There are regional differences in global industry standards and compliance supervision. Different countries have different requirements for equipment safety standards, radiation protection and product certification, increasing the compliance costs and cycles for enterprises' cross-border promotion. The stability of the supply chain is facing challenges. Core components and special materials rely on a few suppliers, and delivery stability is difficult to guarantee due to geopolitics and industrial policies. In addition, there is a shortage of professional and technical talents. The scarcity of compound talents with both nuclear technology and equipment operation capabilities restricts the promotion and application of equipment and the quality of operation and maintenance services. At the same time, the high-barrier characteristics of the

radiopharmaceutical industry also limit the competitive vitality of the industry. Multiple factors jointly restrict the high-quality and balanced development of the global radiosynthesis equipment industry.

This report studies the global Radiosynthesis Equipment production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Radiosynthesis Equipment total production and demand, 2021-2032, (K Units)

Global Radiosynthesis Equipment total production value, 2021-2032, (USD Million)

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

Global Radiosynthesis Equipment consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Radiosynthesis Equipment domestic production, consumption, key domestic manufacturers and share

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

Global Radiosynthesis Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Radiosynthesis Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Radiosynthesis Equipment market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Siemens Healthineers?Germany?, GE?United States?, IBA Radiopharma Solutions?Belgium?, Eckert & Ziegler Group?Germany?, Synthra?Germany?, Sumitomo?Japan?, Scintomics?Germany?, Trasis?Belgium?, Comecer?Italy?, iPHASE technologies?Australia?, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Radiosynthesis Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Radiosynthesis Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radiosynthesis Equipment Market, Segmentation by Type:

Fully Automated Radiosynthesis Equipment

Semi-Automated Radiosynthesis Equipment

Global Radiosynthesis Equipment Market, Segmentation by Number of Hot Chambers:

1

2

Others

Global Radiosynthesis Equipment Market, Segmentation by Product Categories That Can Be Formed:

Standardized Production Type

Multi-Nucleoside Universal Synthesis Type

Others

Global Radiosynthesis Equipment Market, Segmentation by Application:

Hospitals

Diagnostic Laboratories

Ambulatory Surgical Centers

Companies Profiled:

Siemens Healthineers?Germany?

GE?United States?

IBA Radiopharma Solutions?Belgium?

Eckert & Ziegler Group?Germany?

Synthra?Germany?

Sumitomo?Japan?

Scintomics?Germany?

Trasis?Belgium?

Comecer?Italy?

iPHASE technologies?Australia?

Hangzhou Jirui Technology?China?

PET CO., LTD.?China?

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Radiosynthesis Equipment Production Value by Manufacturer (2021-2026)
- 3.2 World Radiosynthesis Equipment Production by Manufacturer (2021-2026)

- 3.3 World Radiosynthesis Equipment Average Price by Manufacturer (2021-2026)
- 3.4 Radiosynthesis Equipment Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Radiosynthesis Equipment Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Radiosynthesis Equipment in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Radiosynthesis Equipment in 2025
- 3.6 Radiosynthesis Equipment Market: Overall Company Footprint Analysis
 - 3.6.1 Radiosynthesis Equipment Market: Region Footprint
 - 3.6.2 Radiosynthesis Equipment Market: Company Product Type Footprint
 - 3.6.3 Radiosynthesis Equipment Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Radiosynthesis Equipment Production Value Comparison
 - 4.1.1 United States VS China: Radiosynthesis Equipment Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Radiosynthesis Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Radiosynthesis Equipment Production Comparison
 - 4.2.1 United States VS China: Radiosynthesis Equipment Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Radiosynthesis Equipment Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Radiosynthesis Equipment Consumption Comparison
 - 4.3.1 United States VS China: Radiosynthesis Equipment Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Radiosynthesis Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Radiosynthesis Equipment Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Radiosynthesis Equipment Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Radiosynthesis Equipment Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Radiosynthesis Equipment Production

(2021-2026)

4.5 China Based Radiosynthesis Equipment Manufacturers and Market Share

4.5.1 China Based Radiosynthesis Equipment Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Radiosynthesis Equipment Production Value (2021-2026)

4.5.3 China Based Manufacturers Radiosynthesis Equipment Production (2021-2026)

4.6 Rest of World Based Radiosynthesis Equipment Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Radiosynthesis Equipment Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Radiosynthesis Equipment Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Radiosynthesis Equipment Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Fully Automated Radiosynthesis Equipment

5.2.2 Semi-Automated Radiosynthesis Equipment

5.3 Market Segment by Type

5.3.1 World Radiosynthesis Equipment Production by Type (2021-2032)

5.3.2 World Radiosynthesis Equipment Production Value by Type (2021-2032)

5.3.3 World Radiosynthesis Equipment Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY NUMBER OF HOT CHAMBERS

6.1 World Radiosynthesis Equipment Market Size Overview by Number of Hot Chambers: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Number of Hot Chambers

6.2.1

6.2.2

6.2.3 Others

6.3 Market Segment by Number of Hot Chambers

6.3.1 World Radiosynthesis Equipment Production by Number of Hot Chambers (2021-2032)

6.3.2 World Radiosynthesis Equipment Production Value by Number of Hot Chambers (2021-2032)

6.3.3 World Radiosynthesis Equipment Average Price by Number of Hot Chambers (2021-2032)

7 MARKET ANALYSIS BY PRODUCT CATEGORIES THAT CAN BE FORMED

7.1 World Radiosynthesis Equipment Market Size Overview by Product Categories That Can Be Formed: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product Categories That Can Be Formed

7.2.1 Standardized Production Type

7.2.2 Multi-Nucleoside Universal Synthesis Type

7.2.3 Others

7.3 Market Segment by Product Categories That Can Be Formed

7.3.1 World Radiosynthesis Equipment Production by Product Categories That Can Be Formed (2021-2032)

7.3.2 World Radiosynthesis Equipment Production Value by Product Categories That Can Be Formed (2021-2032)

7.3.3 World Radiosynthesis Equipment Average Price by Product Categories That Can Be Formed (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Radiosynthesis Equipment Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Hospitals

8.2.2 Diagnostic Laboratories

8.2.3 Ambulatory Surgical Centers

8.3 Market Segment by Application

8.3.1 World Radiosynthesis Equipment Production by Application (2021-2032)

8.3.2 World Radiosynthesis Equipment Production Value by Application (2021-2032)

8.3.3 World Radiosynthesis Equipment Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Siemens Healthineers?Germany?

- 9.1.1 Siemens Healthineers?Germany? Details
- 9.1.2 Siemens Healthineers?Germany? Major Business
- 9.1.3 Siemens Healthineers?Germany? Radiosynthesis Equipment Product and Services
- 9.1.4 Siemens Healthineers?Germany? Radiosynthesis Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Siemens Healthineers?Germany? Recent Developments/Updates
- 9.1.6 Siemens Healthineers?Germany? Competitive Strengths & Weaknesses
- 9.2 GE?United States?
- 9.2.1 GE?United States? Details
- 9.2.2 GE?United States? Major Business
- 9.2.3 GE?United States? Radiosynthesis Equipment Product and Services
- 9.2.4 GE?United States? Radiosynthesis Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 GE?United States? Recent Developments/Updates
- 9.2.6 GE?United States? Competitive Strengths & Weaknesses
- 9.3 IBA Radiopharma Solutions?Belgium?
- 9.3.1 IBA Radiopharma Solutions?Belgium? Details
- 9.3.2 IBA Radiopharma Solutions?Belgium? Major Business
- 9.3.3 IBA Radiopharma Solutions?Belgium? Radiosynthesis Equipment Product and Services
- 9.3.4 IBA Radiopharma Solutions?Belgium? Radiosynthesis Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 IBA Radiopharma Solutions?Belgium? Recent Developments/Updates
- 9.3.6 IBA Radiopharma Solutions?Belgium? Competitive Strengths & Weaknesses
- 9.4 Eckert & Ziegler Group?Germany?
- 9.4.1 Eckert & Ziegler Group?Germany? Details
- 9.4.2 Eckert & Ziegler Group?Germany? Major Business
- 9.4.3 Eckert & Ziegler Group?Germany? Radiosynthesis Equipment Product and Services
- 9.4.4 Eckert & Ziegler Group?Germany? Radiosynthesis Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Eckert & Ziegler Group?Germany? Recent Developments/Updates
- 9.4.6 Eckert & Ziegler Group?Germany? Competitive Strengths & Weaknesses
- 9.5 Synthra?Germany?
- 9.5.1 Synthra?Germany? Details
- 9.5.2 Synthra?Germany? Major Business
- 9.5.3 Synthra?Germany? Radiosynthesis Equipment Product and Services
- 9.5.4 Synthra?Germany? Radiosynthesis Equipment Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.5.5 Synthra?Germany? Recent Developments/Updates

9.5.6 Synthra?Germany? Competitive Strengths & Weaknesses

9.6 Sumitomo?Japan?

9.6.1 Sumitomo?Japan? Details

9.6.2 Sumitomo?Japan? Major Business

9.6.3 Sumitomo?Japan? Radiosynthesis Equipment Product and Services

9.6.4 Sumitomo?Japan? Radiosynthesis Equipment Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.6.5 Sumitomo?Japan? Recent Developments/Updates

9.6.6 Sumitomo?Japan? Competitive Strengths & Weaknesses

9.7 Scintomics?Germany?

9.7.1 Scintomics?Germany? Details

9.7.2 Scintomics?Germany? Major Business

9.7.3 Scintomics?Germany? Radiosynthesis Equipment Product and Services

9.7.4 Scintomics?Germany? Radiosynthesis Equipment Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.7.5 Scintomics?Germany? Recent Developments/Updates

9.7.6 Scintomics?Germany? Competitive Strengths & Weaknesses

9.8 Trasis?Belgium?

9.8.1 Trasis?Belgium? Details

9.8.2 Trasis?Belgium? Major Business

9.8.3 Trasis?Belgium? Radiosynthesis Equipment Product and Services

9.8.4 Trasis?Belgium? Radiosynthesis Equipment Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.8.5 Trasis?Belgium? Recent Developments/Updates

9.8.6 Trasis?Belgium? Competitive Strengths & Weaknesses

9.9 Comecer?Italy?

9.9.1 Comecer?Italy? Details

9.9.2 Comecer?Italy? Major Business

9.9.3 Comecer?Italy? Radiosynthesis Equipment Product and Services

9.9.4 Comecer?Italy? Radiosynthesis Equipment Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.9.5 Comecer?Italy? Recent Developments/Updates

9.9.6 Comecer?Italy? Competitive Strengths & Weaknesses

9.10 iPHASE technologies?Australia?

9.10.1 iPHASE technologies?Australia? Details

9.10.2 iPHASE technologies?Australia? Major Business

9.10.3 iPHASE technologies?Australia? Radiosynthesis Equipment Product and

Services

9.10.4 iPHASE technologies?Australia? Radiosynthesis Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 iPHASE technologies?Australia? Recent Developments/Updates

9.10.6 iPHASE technologies?Australia? Competitive Strengths & Weaknesses

9.11 Hangzhou Jirui Technology?China?

9.11.1 Hangzhou Jirui Technology?China? Details

9.11.2 Hangzhou Jirui Technology?China? Major Business

9.11.3 Hangzhou Jirui Technology?China? Radiosynthesis Equipment Product and Services

9.11.4 Hangzhou Jirui Technology?China? Radiosynthesis Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Hangzhou Jirui Technology?China? Recent Developments/Updates

9.11.6 Hangzhou Jirui Technology?China? Competitive Strengths & Weaknesses

9.12 PET CO., LTD.?China?

9.12.1 PET CO., LTD.?China? Details

9.12.2 PET CO., LTD.?China? Major Business

9.12.3 PET CO., LTD.?China? Radiosynthesis Equipment Product and Services

9.12.4 PET CO., LTD.?China? Radiosynthesis Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 PET CO., LTD.?China? Recent Developments/Updates

9.12.6 PET CO., LTD.?China? Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Radiosynthesis Equipment Industry Chain

10.2 Radiosynthesis Equipment Upstream Analysis

10.2.1 Radiosynthesis Equipment Core Raw Materials

10.2.2 Main Manufacturers of Radiosynthesis Equipment Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Radiosynthesis Equipment Production Mode

10.6 Radiosynthesis Equipment Procurement Model

10.7 Radiosynthesis Equipment Industry Sales Model and Sales Channels

10.7.1 Radiosynthesis Equipment Sales Model

10.7.2 Radiosynthesis Equipment Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Radiosynthesis Equipment Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

Table 6. World Radiosynthesis Equipment Production by Region (2021-2026) & (K Units)

Table 7. World Radiosynthesis Equipment Production by Region (2027-2032) & (K Units)

Table 8. World Radiosynthesis Equipment Production Market Share by Region (2021-2026)

Table 9. World Radiosynthesis Equipment Production Market Share by Region (2027-2032)

Table 10. World Radiosynthesis Equipment Average Price by Region (2021-2026) & (USD/Unit)

Table 11. World Radiosynthesis Equipment Average Price by Region (2027-2032) & (USD/Unit)

Table 12. Radiosynthesis Equipment Major Market Trends

Table 13. World Radiosynthesis Equipment Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Radiosynthesis Equipment Consumption by Region (2021-2026) & (K Units)

Table 15. World Radiosynthesis Equipment Consumption Forecast by Region (2027-2032) & (K Units)

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

Table 17. Production Value Market Share of Key Radiosynthesis Equipment Producers in 2025

Table 18. World Radiosynthesis Equipment Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Radiosynthesis Equipment Producers in 2025

Table 20. World Radiosynthesis Equipment Average Price by Manufacturer (2021-2026) & (USD/Unit)

Table 21. Global Radiosynthesis Equipment Company Evaluation Quadrant

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

Table 23. Head Office and Radiosynthesis Equipment Production Site of Key Manufacturer

Table 24. Radiosynthesis Equipment Market: Company Product Type Footprint

Table 25. Radiosynthesis Equipment Market: Company Product Application Footprint

Table 26. Radiosynthesis Equipment Competitive Factors

Table 27. Radiosynthesis Equipment New Entrant and Capacity Expansion Plans

Table 28. Radiosynthesis Equipment Mergers & Acquisitions Activity

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

Table 30. United States VS China Radiosynthesis Equipment Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Radiosynthesis Equipment Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

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

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

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

Table 35. United States Based Manufacturers Radiosynthesis Equipment Production (2021-2026) & (K Units)

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

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

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

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

Table 40. China Based Manufacturers Radiosynthesis Equipment Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Radiosynthesis Equipment Production Market

Share (2021-2026)

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

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

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

Table 45. Rest of World Based Manufacturers Radiosynthesis Equipment Production, (2021-2026) & (K Units)

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

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

Table 48. World Radiosynthesis Equipment Production by Type (2021-2026) & (K Units)

Table 49. World Radiosynthesis Equipment Production by Type (2027-2032) & (K Units)

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

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

Table 52. World Radiosynthesis Equipment Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World Radiosynthesis Equipment Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World Radiosynthesis Equipment Production Value by Number of Hot Chambers, (USD Million), 2021 & 2025 & 2032

Table 55. World Radiosynthesis Equipment Production by Number of Hot Chambers (2021-2026) & (K Units)

Table 56. World Radiosynthesis Equipment Production by Number of Hot Chambers (2027-2032) & (K Units)

Table 57. World Radiosynthesis Equipment Production Value by Number of Hot Chambers (2021-2026) & (USD Million)

Table 58. World Radiosynthesis Equipment Production Value by Number of Hot Chambers (2027-2032) & (USD Million)

Table 59. World Radiosynthesis Equipment Average Price by Number of Hot Chambers (2021-2026) & (USD/Unit)

Table 60. World Radiosynthesis Equipment Average Price by Number of Hot Chambers (2027-2032) & (USD/Unit)

Table 61. World Radiosynthesis Equipment Production Value by Product Categories That Can Be Formed, (USD Million), 2021 & 2025 & 2032

Table 62. World Radiosynthesis Equipment Production by Product Categories That Can Be Formed (2021-2026) & (K Units)

Table 63. World Radiosynthesis Equipment Production by Product Categories That Can Be Formed (2027-2032) & (K Units)

Table 64. World Radiosynthesis Equipment Production Value by Product Categories That Can Be Formed (2021-2026) & (USD Million)

Table 65. World Radiosynthesis Equipment Production Value by Product Categories That Can Be Formed (2027-2032) & (USD Million)

Table 66. World Radiosynthesis Equipment Average Price by Product Categories That Can Be Formed (2021-2026) & (USD/Unit)

Table 67. World Radiosynthesis Equipment Average Price by Product Categories That Can Be Formed (2027-2032) & (USD/Unit)

Table 68. World Radiosynthesis Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Radiosynthesis Equipment Production by Application (2021-2026) & (K Units)

Table 70. World Radiosynthesis Equipment Production by Application (2027-2032) & (K Units)

Table 71. World Radiosynthesis Equipment Production Value by Application (2021-2026) & (USD Million)

Table 72. World Radiosynthesis Equipment Production Value by Application (2027-2032) & (USD Million)

Table 73. World Radiosynthesis Equipment Average Price by Application (2021-2026) & (USD/Unit)

Table 74. World Radiosynthesis Equipment Average Price by Application (2027-2032) & (USD/Unit)

Table 75. Siemens Healthineers?Germany? Basic Information, Manufacturing Base and Competitors

Table 76. Siemens Healthineers?Germany? Major Business

Table 77. Siemens Healthineers?Germany? Radiosynthesis Equipment Product and Services

Table 78. Siemens Healthineers?Germany? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Siemens Healthineers?Germany? Recent Developments/Updates

Table 80. Siemens Healthineers?Germany? Competitive Strengths & Weaknesses

Table 81. GE?United States? Basic Information, Manufacturing Base and Competitors

Table 82. GE?United States? Major Business

Table 83. GE?United States? Radiosynthesis Equipment Product and Services

Table 84. GE?United States? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. GE?United States? Recent Developments/Updates

Table 86. GE?United States? Competitive Strengths & Weaknesses

Table 87. IBA Radiopharma Solutions?Belgium? Basic Information, Manufacturing Base and Competitors

Table 88. IBA Radiopharma Solutions?Belgium? Major Business

Table 89. IBA Radiopharma Solutions?Belgium? Radiosynthesis Equipment Product and Services

Table 90. IBA Radiopharma Solutions?Belgium? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. IBA Radiopharma Solutions?Belgium? Recent Developments/Updates

Table 92. IBA Radiopharma Solutions?Belgium? Competitive Strengths & Weaknesses

Table 93. Eckert & Ziegler Group?Germany? Basic Information, Manufacturing Base and Competitors

Table 94. Eckert & Ziegler Group?Germany? Major Business

Table 95. Eckert & Ziegler Group?Germany? Radiosynthesis Equipment Product and Services

Table 96. Eckert & Ziegler Group?Germany? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Eckert & Ziegler Group?Germany? Recent Developments/Updates

Table 98. Eckert & Ziegler Group?Germany? Competitive Strengths & Weaknesses

Table 99. Synthra?Germany? Basic Information, Manufacturing Base and Competitors

Table 100. Synthra?Germany? Major Business

Table 101. Synthra?Germany? Radiosynthesis Equipment Product and Services

Table 102. Synthra?Germany? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Synthra?Germany? Recent Developments/Updates

Table 104. Synthra?Germany? Competitive Strengths & Weaknesses

Table 105. Sumitomo?Japan? Basic Information, Manufacturing Base and Competitors

Table 106. Sumitomo?Japan? Major Business

Table 107. Sumitomo?Japan? Radiosynthesis Equipment Product and Services

Table 108. Sumitomo?Japan? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Sumitomo?Japan? Recent Developments/Updates

Table 110. Sumitomo?Japan? Competitive Strengths & Weaknesses

Table 111. Scintomics?Germany? Basic Information, Manufacturing Base and Competitors

Table 112. Scintomics?Germany? Major Business

Table 113. Scintomics?Germany? Radiosynthesis Equipment Product and Services

Table 114. Scintomics?Germany? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Scintomics?Germany? Recent Developments/Updates

Table 116. Scintomics?Germany? Competitive Strengths & Weaknesses

Table 117. Trasis?Belgium? Basic Information, Manufacturing Base and Competitors

Table 118. Trasis?Belgium? Major Business

Table 119. Trasis?Belgium? Radiosynthesis Equipment Product and Services

Table 120. Trasis?Belgium? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Trasis?Belgium? Recent Developments/Updates

Table 122. Trasis?Belgium? Competitive Strengths & Weaknesses

Table 123. Comecer?Italy? Basic Information, Manufacturing Base and Competitors

Table 124. Comecer?Italy? Major Business

Table 125. Comecer?Italy? Radiosynthesis Equipment Product and Services

Table 126. Comecer?Italy? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Comecer?Italy? Recent Developments/Updates

Table 128. Comecer?Italy? Competitive Strengths & Weaknesses

Table 129. iPHASE technologies?Australia? Basic Information, Manufacturing Base and Competitors

Table 130. iPHASE technologies?Australia? Major Business

Table 131. iPHASE technologies?Australia? Radiosynthesis Equipment Product and Services

Table 132. iPHASE technologies?Australia? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. iPHASE technologies?Australia? Recent Developments/Updates

Table 134. iPHASE technologies?Australia? Competitive Strengths & Weaknesses

Table 135. Hangzhou Jirui Technology?China? Basic Information, Manufacturing Base and Competitors

Table 136. Hangzhou Jirui Technology?China? Major Business

Table 137. Hangzhou Jirui Technology?China? Radiosynthesis Equipment Product and Services

Table 138. Hangzhou Jirui Technology?China? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Hangzhou Jirui Technology?China? Recent Developments/Updates

Table 140. Hangzhou Jirui Technology?China? Competitive Strengths & Weaknesses

Table 141. PET CO., LTD.?China? Basic Information, Manufacturing Base and Competitors

Table 142. PET CO., LTD.?China? Major Business

Table 143. PET CO., LTD.?China? Radiosynthesis Equipment Product and Services

Table 144. PET CO., LTD.?China? Radiosynthesis Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. PET CO., LTD.?China? Recent Developments/Updates

Table 146. PET CO., LTD.?China? Competitive Strengths & Weaknesses

Table 147. Global Key Players of Radiosynthesis Equipment Upstream (Raw Materials)

Table 148. Global Radiosynthesis Equipment Typical Customers

Table 149. Radiosynthesis Equipment Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Radiosynthesis Equipment Picture

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

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

Figure 4. World Radiosynthesis Equipment Production (2021-2032) & (K Units)

Figure 5. World Radiosynthesis Equipment Average Price (2021-2032) & (USD/Unit)

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

Figure 7. World Radiosynthesis Equipment Production Market Share by Region (2021-2032)

Figure 8. North America Radiosynthesis Equipment Production (2021-2032) & (K Units)

Figure 9. Europe Radiosynthesis Equipment Production (2021-2032) & (K Units)

Figure 10. Asia-Pacific Radiosynthesis Equipment Production (2021-2032) & (K Units)

Figure 11. Radiosynthesis Equipment Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Radiosynthesis Equipment Consumption (2021-2032) & (K Units)

Figure 14. World Radiosynthesis Equipment Consumption Market Share by Region (2021-2032)

Figure 15. United States Radiosynthesis Equipment Consumption (2021-2032) & (K Units)

Figure 16. China Radiosynthesis Equipment Consumption (2021-2032) & (K Units)

Figure 17. Europe Radiosynthesis Equipment Consumption (2021-2032) & (K Units)

Figure 18. Japan Radiosynthesis Equipment Consumption (2021-2032) & (K Units)

Figure 19. South Korea Radiosynthesis Equipment Consumption (2021-2032) & (K Units)

Figure 20. ASEAN Radiosynthesis Equipment Consumption (2021-2032) & (K Units)

Figure 21. India Radiosynthesis Equipment Consumption (2021-2032) & (K Units)

Figure 22. Producer Shipments of Radiosynthesis Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Radiosynthesis Equipment Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Radiosynthesis Equipment Markets in 2025

Figure 25. United States VS China: Radiosynthesis Equipment Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Radiosynthesis Equipment Production Market

Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Radiosynthesis Equipment Consumption Market

Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Radiosynthesis Equipment Production Market Share 2025

Figure 29. China Based Manufacturers Radiosynthesis Equipment Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Radiosynthesis Equipment Production Market Share 2025

Figure 31. World Radiosynthesis Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Radiosynthesis Equipment Production Value Market Share by Type in 2025

Figure 33. Fully Automated Radiosynthesis Equipment

Figure 34. Semi-Automated Radiosynthesis Equipment

Figure 35. World Radiosynthesis Equipment Production Market Share by Type (2021-2032)

Figure 36. World Radiosynthesis Equipment Production Value Market Share by Type (2021-2032)

Figure 37. World Radiosynthesis Equipment Average Price by Type (2021-2032) & (USD/Unit)

Figure 38. World Radiosynthesis Equipment Production Value by Number of Hot Chambers, (USD Million), 2021 & 2025 & 2032

Figure 39. World Radiosynthesis Equipment Production Value Market Share by Number of Hot Chambers in 2025

Figure 40. 1

Figure 41. 2

Figure 42. Others

Figure 43. World Radiosynthesis Equipment Production Market Share by Number of Hot Chambers (2021-2032)

Figure 44. World Radiosynthesis Equipment Production Value Market Share by Number of Hot Chambers (2021-2032)

Figure 45. World Radiosynthesis Equipment Average Price by Number of Hot Chambers (2021-2032) & (USD/Unit)

Figure 46. World Radiosynthesis Equipment Production Value by Product Categories That Can Be Formed, (USD Million), 2021 & 2025 & 2032

Figure 47. World Radiosynthesis Equipment Production Value Market Share by Product

Categories That Can Be Formed in 2025

Figure 48. Standardized Production Type

Figure 49. Multi-Nucleoside Universal Synthesis Type

Figure 50. Others

Figure 51. World Radiosynthesis Equipment Production Market Share by Product

Categories That Can Be Formed (2021-2032)

Figure 52. World Radiosynthesis Equipment Production Value Market Share by Product

Categories That Can Be Formed (2021-2032)

Figure 53. World Radiosynthesis Equipment Average Price by Product Categories That Can Be Formed (2021-2032) & (USD/Unit)

Figure 54. World Radiosynthesis Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Radiosynthesis Equipment Production Value Market Share by Application in 2025

Figure 56. Hospitals

Figure 57. Diagnostic Laboratories

Figure 58. Ambulatory Surgical Centers

Figure 59. World Radiosynthesis Equipment Production Market Share by Application (2021-2032)

Figure 60. World Radiosynthesis Equipment Production Value Market Share by Application (2021-2032)

Figure 61. World Radiosynthesis Equipment Average Price by Application (2021-2032) & (USD/Unit)

Figure 62. Radiosynthesis Equipment Industry Chain

Figure 63. Radiosynthesis Equipment Procurement Model

Figure 64. Radiosynthesis Equipment Sales Model

Figure 65. Radiosynthesis Equipment Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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