

# Global PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons market size was valued at US\$ 257 million in 2025 and is forecast to a readjusted size of US\$ 360 million by 2032 with a CAGR of 4.9% during review period.

A PET Cyclotron is a particle accelerator used to produce short-lived radioactive tracers required for Positron Emission Tomography (PET) imaging. It works by accelerating protons to high energies using electromagnetic fields and bombarding a target material (such as enriched [18]O water) to induce nuclear reactions, yielding medical radionuclides like F-18 or C-11. Due to the extremely short half-life of these isotopes, PET cyclotrons are typically situated within hospitals or nearby 'radiopharmacies' to ensure timely delivery before significant radioactive decay occurs. A SPECT Cyclotron operates on similar physical principles but is utilized to produce isotopes for Single Photon Emission Computed Tomography (SPECT), such as I-123, Tl-201, and In-111. Compared to PET radionuclides, SPECT isotopes generally possess longer half-lives, allowing for greater flexibility in transport. It is important to note that the most widely used SPECT isotope in clinical practice, Technetium-99m ( $^{99m}\text{Tc}$ ), is primarily derived from the decay of Molybdenum-99 ( $^{99}\text{Mo}$ ), which is produced in nuclear reactors rather than by cyclotrons.

In 2025, global PET and SPECT Cyclotrons production reached approximately 100 units, with an average global market price of around US\$ 2.5 million per unit.

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

Global PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons

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 PET and SPECT Cyclotrons 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 GE Healthcare, IBA, Best Cyclotron Systems, Advanced Cyclotron Systems (ACSI), Sumitomo Heavy Industries, Longevious Beamtech, etc.

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

## Market Segmentation

PET and SPECT Cyclotrons 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

PET Cyclotrons

SPECT Cyclotrons

### Market segment by Capability

10-18 MeV

>30 MeV

Others

### Market segment by Application

Pharmaceutical Industry

Research & Academics

Others

### Major players covered

GE Healthcare

IBA

Best Cyclotron Systems

Advanced Cyclotron Systems (ACSI)

Sumitomo Heavy Industries

Longevous Beamtech

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 PET and SPECT Cyclotrons product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons.

Chapter 14 and 15, to describe PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons Consumption Value by Type: 2021 Versus 2025 Versus 2032

##### 1.3.2 PET Cyclotrons

##### 1.3.3 SPECT Cyclotrons

#### 1.4 Market Analysis by Capability

##### 1.4.1 Overview: Global PET and SPECT Cyclotrons Consumption Value by Capability: 2021 Versus 2025 Versus 2032

##### 1.4.2 10-18 MeV

##### 1.4.3 >30 MeV

##### 1.4.4 Others

#### 1.5 Market Analysis by Application

##### 1.5.1 Overview: Global PET and SPECT Cyclotrons Consumption Value by Application: 2021 Versus 2025 Versus 2032

##### 1.5.2 Pharmaceutical Industry

##### 1.5.3 Research & Academics

##### 1.5.4 Others

#### 1.6 Global PET and SPECT Cyclotrons Market Size & Forecast

##### 1.6.1 Global PET and SPECT Cyclotrons Consumption Value (2021 & 2025 & 2032)

##### 1.6.2 Global PET and SPECT Cyclotrons Sales Quantity (2021-2032)

##### 1.6.3 Global PET and SPECT Cyclotrons Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

#### 2.1 GE Healthcare

##### 2.1.1 GE Healthcare Details

##### 2.1.2 GE Healthcare Major Business

##### 2.1.3 GE Healthcare PET and SPECT Cyclotrons Product and Services

##### 2.1.4 GE Healthcare PET and SPECT Cyclotrons Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

##### 2.1.5 GE Healthcare Recent Developments/Updates

#### 2.2 IBA

##### 2.2.1 IBA Details

- 2.2.2 IBA Major Business
- 2.2.3 IBA PET and SPECT Cyclotrons Product and Services
- 2.2.4 IBA PET and SPECT Cyclotrons Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 IBA Recent Developments/Updates
- 2.3 Best Cyclotron Systems
  - 2.3.1 Best Cyclotron Systems Details
  - 2.3.2 Best Cyclotron Systems Major Business
  - 2.3.3 Best Cyclotron Systems PET and SPECT Cyclotrons Product and Services
  - 2.3.4 Best Cyclotron Systems PET and SPECT Cyclotrons Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Best Cyclotron Systems Recent Developments/Updates
- 2.4 Advanced Cyclotron Systems (ACSI)
  - 2.4.1 Advanced Cyclotron Systems (ACSI) Details
  - 2.4.2 Advanced Cyclotron Systems (ACSI) Major Business
  - 2.4.3 Advanced Cyclotron Systems (ACSI) PET and SPECT Cyclotrons Product and Services
  - 2.4.4 Advanced Cyclotron Systems (ACSI) PET and SPECT Cyclotrons Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 Advanced Cyclotron Systems (ACSI) Recent Developments/Updates
- 2.5 Sumitomo Heavy Industries
  - 2.5.1 Sumitomo Heavy Industries Details
  - 2.5.2 Sumitomo Heavy Industries Major Business
  - 2.5.3 Sumitomo Heavy Industries PET and SPECT Cyclotrons Product and Services
  - 2.5.4 Sumitomo Heavy Industries PET and SPECT Cyclotrons Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Sumitomo Heavy Industries Recent Developments/Updates
- 2.6 Longevous Beamtech
  - 2.6.1 Longevous Beamtech Details
  - 2.6.2 Longevous Beamtech Major Business
  - 2.6.3 Longevous Beamtech PET and SPECT Cyclotrons Product and Services
  - 2.6.4 Longevous Beamtech PET and SPECT Cyclotrons Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.6.5 Longevous Beamtech Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: PET AND SPECT CYCLOTRONS BY MANUFACTURER**

#### **3.1 Global PET and SPECT Cyclotrons Sales Quantity by Manufacturer (2021-2026)**



- 3.2 Global PET and SPECT Cyclotrons Revenue by Manufacturer (2021-2026)
- 3.3 Global PET and SPECT Cyclotrons Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of PET and SPECT Cyclotrons by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 PET and SPECT Cyclotrons Manufacturer Market Share in 2025
  - 3.4.3 Top 6 PET and SPECT Cyclotrons Manufacturer Market Share in 2025
- 3.5 PET and SPECT Cyclotrons Market: Overall Company Footprint Analysis
  - 3.5.1 PET and SPECT Cyclotrons Market: Region Footprint
  - 3.5.2 PET and SPECT Cyclotrons Market: Company Product Type Footprint
  - 3.5.3 PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons Market Size by Region
  - 4.1.1 Global PET and SPECT Cyclotrons Sales Quantity by Region (2021-2032)
  - 4.1.2 Global PET and SPECT Cyclotrons Consumption Value by Region (2021-2032)
  - 4.1.3 Global PET and SPECT Cyclotrons Average Price by Region (2021-2032)
- 4.2 North America PET and SPECT Cyclotrons Consumption Value (2021-2032)
- 4.3 Europe PET and SPECT Cyclotrons Consumption Value (2021-2032)
- 4.4 Asia-Pacific PET and SPECT Cyclotrons Consumption Value (2021-2032)
- 4.5 South America PET and SPECT Cyclotrons Consumption Value (2021-2032)
- 4.6 Middle East & Africa PET and SPECT Cyclotrons Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global PET and SPECT Cyclotrons Sales Quantity by Type (2021-2032)
- 5.2 Global PET and SPECT Cyclotrons Consumption Value by Type (2021-2032)
- 5.3 Global PET and SPECT Cyclotrons Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global PET and SPECT Cyclotrons Sales Quantity by Application (2021-2032)
- 6.2 Global PET and SPECT Cyclotrons Consumption Value by Application (2021-2032)
- 6.3 Global PET and SPECT Cyclotrons Average Price by Application (2021-2032)

## **7 NORTH AMERICA**



7.1 North America PET and SPECT Cyclotrons Sales Quantity by Type (2021-2032)

7.2 North America PET and SPECT Cyclotrons Sales Quantity by Application (2021-2032)

7.3 North America PET and SPECT Cyclotrons Market Size by Country

7.3.1 North America PET and SPECT Cyclotrons Sales Quantity by Country (2021-2032)

7.3.2 North America PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons Sales Quantity by Type (2021-2032)

8.2 Europe PET and SPECT Cyclotrons Sales Quantity by Application (2021-2032)

8.3 Europe PET and SPECT Cyclotrons Market Size by Country

8.3.1 Europe PET and SPECT Cyclotrons Sales Quantity by Country (2021-2032)

8.3.2 Europe PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific PET and SPECT Cyclotrons Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific PET and SPECT Cyclotrons Market Size by Region

9.3.1 Asia-Pacific PET and SPECT Cyclotrons Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons Sales Quantity by Type (2021-2032)

### 10.2 South America PET and SPECT Cyclotrons Sales Quantity by Application (2021-2032)

### 10.3 South America PET and SPECT Cyclotrons Market Size by Country

#### 10.3.1 South America PET and SPECT Cyclotrons Sales Quantity by Country (2021-2032)

#### 10.3.2 South America PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons Sales Quantity by Type (2021-2032)

### 11.2 Middle East & Africa PET and SPECT Cyclotrons Sales Quantity by Application (2021-2032)

### 11.3 Middle East & Africa PET and SPECT Cyclotrons Market Size by Country

#### 11.3.1 Middle East & Africa PET and SPECT Cyclotrons Sales Quantity by Country (2021-2032)

#### 11.3.2 Middle East & Africa PET and SPECT Cyclotrons 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 PET and SPECT Cyclotrons Market Drivers

### 12.2 PET and SPECT Cyclotrons Market Restraints

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

Table 2. Global PET and SPECT Cyclotrons Consumption Value by Capability, (USD Million), 2021 & 2025 & 2032

Table 3. Global PET and SPECT Cyclotrons Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. GE Healthcare Basic Information, Manufacturing Base and Competitors

Table 5. GE Healthcare Major Business

Table 6. GE Healthcare PET and SPECT Cyclotrons Product and Services

Table 7. GE Healthcare PET and SPECT Cyclotrons Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. GE Healthcare Recent Developments/Updates

Table 9. IBA Basic Information, Manufacturing Base and Competitors

Table 10. IBA Major Business

Table 11. IBA PET and SPECT Cyclotrons Product and Services

Table 12. IBA PET and SPECT Cyclotrons Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. IBA Recent Developments/Updates

Table 14. Best Cyclotron Systems Basic Information, Manufacturing Base and Competitors

Table 15. Best Cyclotron Systems Major Business

Table 16. Best Cyclotron Systems PET and SPECT Cyclotrons Product and Services

Table 17. Best Cyclotron Systems PET and SPECT Cyclotrons Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Best Cyclotron Systems Recent Developments/Updates

Table 19. Advanced Cyclotron Systems (ACSI) Basic Information, Manufacturing Base and Competitors

Table 20. Advanced Cyclotron Systems (ACSI) Major Business

Table 21. Advanced Cyclotron Systems (ACSI) PET and SPECT Cyclotrons Product and Services

Table 22. Advanced Cyclotron Systems (ACSI) PET and SPECT Cyclotrons Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

|                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table 23. Advanced Cyclotron Systems (ACSI) Recent Developments/Updates                                                                                                            |
| Table 24. Sumitomo Heavy Industries Basic Information, Manufacturing Base and Competitors                                                                                          |
| Table 25. Sumitomo Heavy Industries Major Business                                                                                                                                 |
| Table 26. Sumitomo Heavy Industries PET and SPECT Cyclotrons Product and Services                                                                                                  |
| Table 27. Sumitomo Heavy Industries PET and SPECT Cyclotrons Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026) |
| Table 28. Sumitomo Heavy Industries Recent Developments/Updates                                                                                                                    |
| Table 29. Longevous?Beamtech Basic Information, Manufacturing Base and Competitors                                                                                                 |
| Table 30. Longevous?Beamtech Major Business                                                                                                                                        |
| Table 31. Longevous?Beamtech PET and SPECT Cyclotrons Product and Services                                                                                                         |
| Table 32. Longevous?Beamtech PET and SPECT Cyclotrons Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)        |
| Table 33. Longevous?Beamtech Recent Developments/Updates                                                                                                                           |
| Table 34. Global PET and SPECT Cyclotrons Sales Quantity by Manufacturer (2021-2026) & (Units)                                                                                     |
| Table 35. Global PET and SPECT Cyclotrons Revenue by Manufacturer (2021-2026) & (USD Million)                                                                                      |
| Table 36. Global PET and SPECT Cyclotrons Average Price by Manufacturer (2021-2026) & (K US\$/Unit)                                                                                |
| Table 37. Market Position of Manufacturers in PET and SPECT Cyclotrons, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025                                                     |
| Table 38. Head Office and PET and SPECT Cyclotrons Production Site of Key Manufacturer                                                                                             |
| Table 39. PET and SPECT Cyclotrons Market: Company Product Type Footprint                                                                                                          |
| Table 40. PET and SPECT Cyclotrons Market: Company Product Application Footprint                                                                                                   |
| Table 41. PET and SPECT Cyclotrons New Market Entrants and Barriers to Market Entry                                                                                                |
| Table 42. PET and SPECT Cyclotrons Mergers, Acquisition, Agreements, and Collaborations                                                                                            |
| Table 43. Global PET and SPECT Cyclotrons Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR                                                                      |
| Table 44. Global PET and SPECT Cyclotrons Sales Quantity by Region (2021-2026) & (Units)                                                                                           |
| Table 45. Global PET and SPECT Cyclotrons Sales Quantity by Region (2027-2032) &                                                                                                   |

(Units)

Table 46. Global PET and SPECT Cyclotrons Consumption Value by Region (2021-2026) & (USD Million)

Table 47. Global PET and SPECT Cyclotrons Consumption Value by Region (2027-2032) & (USD Million)

Table 48. Global PET and SPECT Cyclotrons Average Price by Region (2021-2026) & (K US\$/Unit)

Table 49. Global PET and SPECT Cyclotrons Average Price by Region (2027-2032) & (K US\$/Unit)

Table 50. Global PET and SPECT Cyclotrons Sales Quantity by Type (2021-2026) & (Units)

Table 51. Global PET and SPECT Cyclotrons Sales Quantity by Type (2027-2032) & (Units)

Table 52. Global PET and SPECT Cyclotrons Consumption Value by Type (2021-2026) & (USD Million)

Table 53. Global PET and SPECT Cyclotrons Consumption Value by Type (2027-2032) & (USD Million)

Table 54. Global PET and SPECT Cyclotrons Average Price by Type (2021-2026) & (K US\$/Unit)

Table 55. Global PET and SPECT Cyclotrons Average Price by Type (2027-2032) & (K US\$/Unit)

Table 56. Global PET and SPECT Cyclotrons Sales Quantity by Application (2021-2026) & (Units)

Table 57. Global PET and SPECT Cyclotrons Sales Quantity by Application (2027-2032) & (Units)

Table 58. Global PET and SPECT Cyclotrons Consumption Value by Application (2021-2026) & (USD Million)

Table 59. Global PET and SPECT Cyclotrons Consumption Value by Application (2027-2032) & (USD Million)

Table 60. Global PET and SPECT Cyclotrons Average Price by Application (2021-2026) & (K US\$/Unit)

Table 61. Global PET and SPECT Cyclotrons Average Price by Application (2027-2032) & (K US\$/Unit)

Table 62. North America PET and SPECT Cyclotrons Sales Quantity by Type (2021-2026) & (Units)

Table 63. North America PET and SPECT Cyclotrons Sales Quantity by Type (2027-2032) & (Units)

Table 64. North America PET and SPECT Cyclotrons Sales Quantity by Application (2021-2026) & (Units)



Table 65. North America PET and SPECT Cyclotrons Sales Quantity by Application (2027-2032) & (Units)

Table 66. North America PET and SPECT Cyclotrons Sales Quantity by Country (2021-2026) & (Units)

Table 67. North America PET and SPECT Cyclotrons Sales Quantity by Country (2027-2032) & (Units)

Table 68. North America PET and SPECT Cyclotrons Consumption Value by Country (2021-2026) & (USD Million)

Table 69. North America PET and SPECT Cyclotrons Consumption Value by Country (2027-2032) & (USD Million)

Table 70. Europe PET and SPECT Cyclotrons Sales Quantity by Type (2021-2026) & (Units)

Table 71. Europe PET and SPECT Cyclotrons Sales Quantity by Type (2027-2032) & (Units)

Table 72. Europe PET and SPECT Cyclotrons Sales Quantity by Application (2021-2026) & (Units)

Table 73. Europe PET and SPECT Cyclotrons Sales Quantity by Application (2027-2032) & (Units)

Table 74. Europe PET and SPECT Cyclotrons Sales Quantity by Country (2021-2026) & (Units)

Table 75. Europe PET and SPECT Cyclotrons Sales Quantity by Country (2027-2032) & (Units)

Table 76. Europe PET and SPECT Cyclotrons Consumption Value by Country (2021-2026) & (USD Million)

Table 77. Europe PET and SPECT Cyclotrons Consumption Value by Country (2027-2032) & (USD Million)

Table 78. Asia-Pacific PET and SPECT Cyclotrons Sales Quantity by Type (2021-2026) & (Units)

Table 79. Asia-Pacific PET and SPECT Cyclotrons Sales Quantity by Type (2027-2032) & (Units)

Table 80. Asia-Pacific PET and SPECT Cyclotrons Sales Quantity by Application (2021-2026) & (Units)

Table 81. Asia-Pacific PET and SPECT Cyclotrons Sales Quantity by Application (2027-2032) & (Units)

Table 82. Asia-Pacific PET and SPECT Cyclotrons Sales Quantity by Region (2021-2026) & (Units)

Table 83. Asia-Pacific PET and SPECT Cyclotrons Sales Quantity by Region (2027-2032) & (Units)

Table 84. Asia-Pacific PET and SPECT Cyclotrons Consumption Value by Region



(2021-2026) & (USD Million)

Table 85. Asia-Pacific PET and SPECT Cyclotrons Consumption Value by Region

(2027-2032) & (USD Million)

Table 86. South America PET and SPECT Cyclotrons Sales Quantity by Type

(2021-2026) & (Units)

Table 87. South America PET and SPECT Cyclotrons Sales Quantity by Type

(2027-2032) & (Units)

Table 88. South America PET and SPECT Cyclotrons Sales Quantity by Application

(2021-2026) & (Units)

Table 89. South America PET and SPECT Cyclotrons Sales Quantity by Application

(2027-2032) & (Units)

Table 90. South America PET and SPECT Cyclotrons Sales Quantity by Country

(2021-2026) & (Units)

Table 91. South America PET and SPECT Cyclotrons Sales Quantity by Country

(2027-2032) & (Units)

Table 92. South America PET and SPECT Cyclotrons Consumption Value by Country

(2021-2026) & (USD Million)

Table 93. South America PET and SPECT Cyclotrons Consumption Value by Country

(2027-2032) & (USD Million)

Table 94. Middle East & Africa PET and SPECT Cyclotrons Sales Quantity by Type

(2021-2026) & (Units)

Table 95. Middle East & Africa PET and SPECT Cyclotrons Sales Quantity by Type

(2027-2032) & (Units)

Table 96. Middle East & Africa PET and SPECT Cyclotrons Sales Quantity by  
Application (2021-2026) & (Units)

Table 97. Middle East & Africa PET and SPECT Cyclotrons Sales Quantity by  
Application (2027-2032) & (Units)

Table 98. Middle East & Africa PET and SPECT Cyclotrons Sales Quantity by Country  
(2021-2026) & (Units)

Table 99. Middle East & Africa PET and SPECT Cyclotrons Sales Quantity by Country  
(2027-2032) & (Units)

Table 100. Middle East & Africa PET and SPECT Cyclotrons Consumption Value by  
Country (2021-2026) & (USD Million)

Table 101. Middle East & Africa PET and SPECT Cyclotrons Consumption Value by  
Country (2027-2032) & (USD Million)

Table 102. PET and SPECT Cyclotrons Raw Material

Table 103. Key Manufacturers of PET and SPECT Cyclotrons Raw Materials

Table 104. PET and SPECT Cyclotrons Typical Distributors

Table 105. PET and SPECT Cyclotrons Typical Customers



## List Of Figures

### LIST OF FIGURES

Figure 1. PET and SPECT Cyclotrons Picture

Figure 2. Global PET and SPECT Cyclotrons Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global PET and SPECT Cyclotrons Revenue Market Share by Type in 2025

Figure 4. PET Cyclotrons Examples

Figure 5. SPECT Cyclotrons Examples

Figure 6. Global PET and SPECT Cyclotrons Revenue by Capability, (USD Million), 2021 & 2025 & 2032

Figure 7. Global PET and SPECT Cyclotrons Revenue Market Share by Capability in 2025

Figure 8. 10-18 MeV Examples

Figure 9. >30 MeV Examples

Figure 10. Others Examples

Figure 11. Global PET and SPECT Cyclotrons Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 12. Global PET and SPECT Cyclotrons Revenue Market Share by Application in 2025

Figure 13. Pharmaceutical Industry Examples

Figure 14. Research & Academics Examples

Figure 15. Others Examples

Figure 16. Global PET and SPECT Cyclotrons Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 17. Global PET and SPECT Cyclotrons Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 18. Global PET and SPECT Cyclotrons Sales Quantity (2021-2032) & (Units)

Figure 19. Global PET and SPECT Cyclotrons Price (2021-2032) & (K US\$/Unit)

Figure 20. Global PET and SPECT Cyclotrons Sales Quantity Market Share by Manufacturer in 2025

Figure 21. Global PET and SPECT Cyclotrons Revenue Market Share by Manufacturer in 2025

Figure 22. Producer Shipments of PET and SPECT Cyclotrons by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 23. Top 3 PET and SPECT Cyclotrons Manufacturer (Revenue) Market Share in 2025

Figure 24. Top 6 PET and SPECT Cyclotrons Manufacturer (Revenue) Market Share in

2025

Figure 25. Global PET and SPECT Cyclotrons Sales Quantity Market Share by Region (2021-2032)

Figure 26. Global PET and SPECT Cyclotrons Consumption Value Market Share by Region (2021-2032)

Figure 27. North America PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 28. Europe PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 29. Asia-Pacific PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 30. South America PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 31. Middle East & Africa PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 32. Global PET and SPECT Cyclotrons Sales Quantity Market Share by Type (2021-2032)

Figure 33. Global PET and SPECT Cyclotrons Consumption Value Market Share by Type (2021-2032)

Figure 34. Global PET and SPECT Cyclotrons Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 35. Global PET and SPECT Cyclotrons Sales Quantity Market Share by Application (2021-2032)

Figure 36. Global PET and SPECT Cyclotrons Revenue Market Share by Application (2021-2032)

Figure 37. Global PET and SPECT Cyclotrons Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 38. North America PET and SPECT Cyclotrons Sales Quantity Market Share by Type (2021-2032)

Figure 39. North America PET and SPECT Cyclotrons Sales Quantity Market Share by Application (2021-2032)

Figure 40. North America PET and SPECT Cyclotrons Sales Quantity Market Share by Country (2021-2032)

Figure 41. North America PET and SPECT Cyclotrons Consumption Value Market Share by Country (2021-2032)

Figure 42. United States PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 43. Canada PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 44. Mexico PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 45. Europe PET and SPECT Cyclotrons Sales Quantity Market Share by Type (2021-2032)

Figure 46. Europe PET and SPECT Cyclotrons Sales Quantity Market Share by Application (2021-2032)

Figure 47. Europe PET and SPECT Cyclotrons Sales Quantity Market Share by Country (2021-2032)

Figure 48. Europe PET and SPECT Cyclotrons Consumption Value Market Share by Country (2021-2032)

Figure 49. Germany PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 50. France PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 51. United Kingdom PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 52. Russia PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 53. Italy PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 54. Asia-Pacific PET and SPECT Cyclotrons Sales Quantity Market Share by Type (2021-2032)

Figure 55. Asia-Pacific PET and SPECT Cyclotrons Sales Quantity Market Share by Application (2021-2032)

Figure 56. Asia-Pacific PET and SPECT Cyclotrons Sales Quantity Market Share by Region (2021-2032)

Figure 57. Asia-Pacific PET and SPECT Cyclotrons Consumption Value Market Share by Region (2021-2032)

Figure 58. China PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 59. Japan PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 60. South Korea PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 61. India PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 62. Southeast Asia PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 63. Australia PET and SPECT Cyclotrons Consumption Value (2021-2032) &

(USD Million)

Figure 64. South America PET and SPECT Cyclotrons Sales Quantity Market Share by Type (2021-2032)

Figure 65. South America PET and SPECT Cyclotrons Sales Quantity Market Share by Application (2021-2032)

Figure 66. South America PET and SPECT Cyclotrons Sales Quantity Market Share by Country (2021-2032)

Figure 67. South America PET and SPECT Cyclotrons Consumption Value Market Share by Country (2021-2032)

Figure 68. Brazil PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 69. Argentina PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 70. Middle East & Africa PET and SPECT Cyclotrons Sales Quantity Market Share by Type (2021-2032)

Figure 71. Middle East & Africa PET and SPECT Cyclotrons Sales Quantity Market Share by Application (2021-2032)

Figure 72. Middle East & Africa PET and SPECT Cyclotrons Sales Quantity Market Share by Country (2021-2032)

Figure 73. Middle East & Africa PET and SPECT Cyclotrons Consumption Value Market Share by Country (2021-2032)

Figure 74. Turkey PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 75. Egypt PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 76. Saudi Arabia PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 77. South Africa PET and SPECT Cyclotrons Consumption Value (2021-2032) & (USD Million)

Figure 78. PET and SPECT Cyclotrons Market Drivers

Figure 79. PET and SPECT Cyclotrons Market Restraints

Figure 80. PET and SPECT Cyclotrons Market Trends

Figure 81. Porters Five Forces Analysis

Figure 82. Manufacturing Cost Structure Analysis of PET and SPECT Cyclotrons in 2025

Figure 83. Manufacturing Process Analysis of PET and SPECT Cyclotrons

Figure 84. PET and SPECT Cyclotrons Industrial Chain

Figure 85. Sales Channel: Direct to End-User vs Distributors

Figure 86. Direct Channel Pros & Cons

Figure 87. Indirect Channel Pros & Cons

Figure 88. Methodology

Figure 89. Research Process and Data Source



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