

Global PET and SPECT Cyclotrons Market Growth 2026-2032

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Abstracts

The global PET and SPECT Cyclotrons market size is predicted to grow from US\$ 245 million in 2025 to US\$ 348 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

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}Tc), is primarily derived from the decay of Molybdenum-99 (^{99}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.

United States market for PET and SPECT Cyclotrons is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for PET and SPECT Cyclotrons is estimated to increase from US\$ million

in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for PET and SPECT Cyclotrons is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key PET and SPECT Cyclotrons players cover GE Healthcare, IBA, Best Cyclotron Systems, Advanced Cyclotron Systems (ACSI), Sumitomo Heavy Industries, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of PET and SPECT Cyclotrons market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

PET Cyclotrons

SPECT Cyclotrons

Segmentation by Capability:

10-18 MeV

>30 MeV

Others

Segmentation by Application:

Pharmaceutical Industry

Research & Academics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

GE Healthcare

IBA

Best Cyclotron Systems

Advanced Cyclotron Systems (ACSI)

Sumitomo Heavy Industries

Longevous Beamtech

Key Questions Addressed in this Report

What is the 10-year outlook for the global PET and SPECT Cyclotrons market?

What factors are driving PET and SPECT Cyclotrons market growth, globally and by region?

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

How do PET and SPECT Cyclotrons market opportunities vary by end market size?

How does PET and SPECT Cyclotrons break out by Type, by Application?

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