

Global PET and SPECT Cyclotrons Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G84B65C30AEBEN.html>

Date: July 2026

Pages: 112

Price: US\$ 4,480.00 (Single User License)

ID: G84B65C30AEBEN

Abstracts

The global PET and SPECT Cyclotrons market size is expected to reach \$ 360 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global PET and SPECT Cyclotrons production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PET and

SPECT Cyclotrons 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 PET and SPECT Cyclotrons that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PET and SPECT Cyclotrons total production and demand, 2021-2032, (Units)

Global PET and SPECT Cyclotrons total production value, 2021-2032, (USD Million)

Global PET and SPECT Cyclotrons production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global PET and SPECT Cyclotrons consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: PET and SPECT Cyclotrons domestic production, consumption, key domestic manufacturers and share

Global PET and SPECT Cyclotrons production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global PET and SPECT Cyclotrons production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global PET and SPECT Cyclotrons production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global PET and SPECT Cyclotrons 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PET and SPECT Cyclotrons market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/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 PET and SPECT Cyclotrons Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PET and SPECT Cyclotrons Market, Segmentation by Type:

PET Cyclotrons

SPECT Cyclotrons

Global PET and SPECT Cyclotrons Market, Segmentation by Capability:

10-18 MeV

>30 MeV

Others

Global PET and SPECT Cyclotrons Market, Segmentation by Application:

Pharmaceutical Industry

Research & Academics

Others

Companies Profiled:

GE Healthcare

IBA

Best Cyclotron Systems

Advanced Cyclotron Systems (ACSI)

Sumitomo Heavy Industries

Longevous Beamtech

Key Questions Answered:

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

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