

Global Cyclotrons for PET Market Growth 2026-2032

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Abstracts

The global Cyclotrons for PET market size is predicted to grow from US\$ 435 million in 2025 to US\$ 587 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

In 2025, global cyclotron for PET production reached approximately 159 units, the average price is 2600 k usd/unit. A cyclotron for PET is a particle accelerator that rapidly accelerates a beam of charged particles (protons) in a ring-shaped tube. Bombarding non-radioactive materials (stable isotopes) with these protons can yield medical radioisotopes. When a proton beam interacts with a stable isotope, a nuclear reaction occurs that turns the stable isotope into a radioisotope that can be used for cancer diagnosis and treatment.

Market Concentration and Key Players:

Internationally, PET cyclotron market concentration is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, GE and Sumitomo Heavy Industries and other large manufacturers; from the domestic point of view, PET cyclotron still has a lot of room for development.

Manufacturing Processes and Market Trends:

The core of the manufacturing process of PET cyclotron is to drive charged particles to spiral accelerate to a high energy state through a precision electromagnetic field system and bombard a specific target to generate short-lived radionuclides. Its manufacturing involves highly collaborative integration of multiple modules such as ion source, radio frequency system, vacuum system and extraction target system. The current technical evolution focuses on miniaturization of equipment, reduction of maintenance cost and improvement of nuclide yield through vertical square magnetic pole design.

In terms of market trends, the global market scale is growing, which is mainly driven by the improvement of precision medical demand, the popularization of PET imaging technology and the construction of nuclear medicine disciplines in primary hospitals. In the future, equipment will emphasize compactness, high output and versatility. Meanwhile, Asia-Pacific region, especially China, has performed significantly in terms of market growth and technological autonomy.

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

This Insight Report provides a comprehensive analysis of the global Cyclotrons for PET 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 Cyclotrons for PET portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cyclotrons for PET market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cyclotrons for PET and breaks down the forecast by Energy, 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 Cyclotrons for PET.

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

Segmentation by Energy:

Low Energy Cyclotron

High Energy Cyclotron

Segmentation by Particle:

Proton Cyclotron

Deuteron Cyclotron

Proton + Deuteron Double Particle

Segmentation by Beam Pattern:

Low Beam Pattern

Intermediate Beam Pattern

High Beam Pattern

Segmentation by Application:

Hospital

Laboratory

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.

Sumitomo Heavy Industries

General Electric

Best ABT

Best Cyclotron Systems

Siemens

Advanced Cyclotron Systems

Comecer

IBA

IONETIX

AVELION

Key Questions Addressed in this Report

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

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

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

How do Cyclotrons for PET market opportunities vary by end market size?

How does Cyclotrons for PET break out by Energy, by Application?

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