

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

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Abstracts

The global Cyclotrons for PET market size is expected to reach \$ 607 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

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.

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

This report is a detailed and comprehensive analysis of the world market for Cyclotrons for PET 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 Cyclotrons for PET that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

Global Cyclotrons for PET production by Energy, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Cyclotrons for PET 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 Sumitomo Heavy Industries, General Electric, Best ABT, Best Cyclotron Systems, Siemens, Advanced Cyclotron Systems, Comecer, IBA, IONETIX, AVELION, 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 Cyclotrons for PET 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 Energy, 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 Cyclotrons for PET Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cyclotrons for PET Market, Segmentation by Energy:

Low Energy Cyclotron

High Energy Cyclotron

Global Cyclotrons for PET Market, Segmentation by Particle:

Proton Cyclotron

Deuteron Cyclotron

Proton + Deuteron Double Particle

Global Cyclotrons for PET Market, Segmentation by Beam Pattern:

Low Beam Pattern

Intermediate Beam Pattern

High Beam Pattern

Global Cyclotrons for PET Market, Segmentation by Application:

Hospital

Laboratory

Others

Companies Profiled:

Sumitomo Heavy Industries

General Electric

Best ABT

Best Cyclotron Systems

Siemens

Advanced Cyclotron Systems

Comecer

IBA

IONETIX

AVELION

Key Questions Answered:

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

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