

Global Medical Cyclotron Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Medical Cyclotron market size is expected to reach \$ 333 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

In 2024, global Medical Cyclotron production reached approximately 94 units, with an average global market price of around US\$ 2.47 million per unit.

Medical Cyclotron is a particle accelerator used in medical applications to produce medical isotopes for diagnostic imaging and therapy. The cyclotron accelerates charged particles, typically protons or deuterons, which interact with target materials to produce short-lived radionuclides. These isotopes are then used in techniques such as positron emission tomography (PET) and single-photon emission computed tomography (SPECT), which are crucial for diagnosing conditions like cancer, heart disease, and neurological disorders. The main raw materials involved in the manufacturing of medical cyclotrons include high-purity copper, advanced superconducting magnets, and sophisticated electronic components. These devices are primarily used in hospitals, imaging centers, and research institutions. The medical cyclotron industry generally enjoys relatively high profit margins due to the specialized nature of the equipment and the high demand for medical imaging. However, the production process is capital-intensive and requires specialized manufacturing lines and skilled labor to assemble, calibrate, and maintain the systems.

The market for Medical Cyclotrons has been steadily growing due to the increasing global demand for advanced medical imaging and radionuclide therapy. With the rising incidence of chronic diseases, particularly cancer, and the increasing focus on early diagnosis, the need for high-precision diagnostic tools has grown significantly. Medical cyclotrons play an essential role in producing the isotopes required for positron

emission tomography (PET), which is a key technology for cancer detection, monitoring treatment progress, and conducting research in molecular imaging. The demand for cyclotrons is strongest in developed countries with well-established healthcare infrastructures, but emerging markets are also beginning to see a rise in adoption due to increasing healthcare investments and advancements in medical technology. Hospitals, research institutions, and diagnostic imaging centers are the main consumers of these systems. However, the market faces challenges such as the high cost of production, maintenance, and regulatory complexities. Despite these challenges, the market continues to expand due to ongoing innovations in cyclotron technology, such as the development of compact and more efficient models. These innovations, along with the growing recognition of the value of nuclear medicine, are expected to drive continued growth in the medical cyclotron market over the coming years.

This report studies the global Medical Cyclotron production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Medical Cyclotron total production and demand, 2021-2032, (Units)

Global Medical Cyclotron total production value, 2021-2032, (USD Million)

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

Global Medical Cyclotron consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Medical Cyclotron domestic production, consumption, key domestic manufacturers and share

Global Medical Cyclotron production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Medical Cyclotron production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Medical Cyclotron production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Medical Cyclotron 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, Longevous 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 Medical Cyclotron market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (M 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 Medical Cyclotron Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medical Cyclotron Market, Segmentation by Type:

Cyclotron Less than 12 MeV

Cyclotron 13-18 MeV

Cyclotron 19-24 MeV

Cyclotron More than 24 MeV

Global Medical Cyclotron Market, Segmentation by Disease:

Cancer Treatment

Cardiology

Neurology

Infectious Diseases

Others

Global Medical Cyclotron Market, Segmentation by Usage Scenario:

Diagnostic Imaging

Therapeutic Isotope Production

Global Medical Cyclotron Market, Segmentation by Application:

Hospital

Pharmaceutical Industry

Research & Academics

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 Medical Cyclotron market?
2. What is the demand of the global Medical Cyclotron market?
3. What is the year over year growth of the global Medical Cyclotron market?
4. What is the production and production value of the global Medical Cyclotron market?
5. Who are the key producers in the global Medical Cyclotron market?
6. What are the growth factors driving the market demand?

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