

Medical Cyclotron Market Report by Type (Ring Cyclotron, Azimuthally Varying Field (AVF) Cyclotron), Product Type (Cyclotron 10-12 MeV, Cyclotron 16-18 MeV, Cyclotron 19-24 MeV, Cyclotron 24 MeV and Above), End User (Hospitals, Diagnostic Centers, Research and Academic Institutes, and Others), and Region 2023-2028

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Abstracts

The global medical cyclotron market size reached US\$ 211.6 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 349.1 Million by 2028, exhibiting a growth rate (CAGR) of 8.70% during 2022-2028.

A medical cyclotron is a type of particle accelerator that is used in the diagnosis and treatment of cancer. It utilizes electromagnetic fields to propel charged particles, which produce radioactive isotopes for medical drugs. These isotopes are further used in positron emission tomography (PET) and single-photon emission computed tomography (SPECT) for cancer diagnosis and treatment planning. As compared to research reactors that produce radioisotopes, medical cyclotrons generate less hazardous waste.

Medical Cyclotron Market Trends:

The increasing geriatric population, which is more likely to develop cancer, represents one of the primary factors contributing to the market growth. Moreover, on account of changing lifestyles, inflating disposable incomes and increasing awareness about the use of medical cyclotrons in the diagnosis of tumors, there is a rise in the demand for diagnostics treatments with PET scan. This, in confluence with significant investments in the healthcare infrastructure and the increasing shift from nuclear reactors to medical cyclotrons, is creating a favorable outlook for the market. Besides this, the rising

number of cancer cases has increased the demand for nuclear scans for accurate diagnosis across the world. In addition to this, medical cyclotrons are increasingly being utilized in cardiology, neurology, and oncology in hospitals and diagnostic centers. Furthermore, the leading players are introducing technologically advanced diagnostic devices, which is anticipated to expand their overall market reach and positively influence the demand for medical cyclotron around the world.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global medical cyclotron market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, product type and end user.

Breakup by Type:

- Ring Cyclotron
- Azimuthally Varying Field (AVF) Cyclotron

Breakup by Product Type:

- Cyclotron 10-12 MeV
- Cyclotron 16-18 MeV
- Cyclotron 19-24 MeV
- Cyclotron 24 MeV and Above

Breakup by End User:

- Hospitals
- Diagnostic Centers
- Research and Academic Institutes
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
- China

Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Advanced Cyclotron Systems Inc., Alcen, Best Medical International Inc., General Electric Company, IBA RadioPharma Solutions, Ionetix Corporation, Isosolution Inc., Siemens AG, Sumitomo Heavy Industries Ltd. and Varian Medical Systems Inc.

Key Questions Answered in This Report

1. What was the size of the global medical cyclotron market in 2022?
2. What is the expected growth rate of the global medical cyclotron market during 2023-2028?
3. What are the key factors driving the global medical cyclotron market?
4. What has been the impact of COVID-19 on the global medical cyclotron market?
5. What is the breakup of the global medical cyclotron market based on the type?
6. What is the breakup of the global medical cyclotron market based on the product type?
7. What is the breakup of the global medical cyclotron market based on the end user?
8. What are the key regions in the global medical cyclotron market?
9. Who are the key players/companies in the global medical cyclotron market?

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