

Global Positron Emission Tomography (PET) Scanners Market Growth 2026-2032

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Abstracts

The global Positron Emission Tomography (PET) Scanners market size is predicted to grow from US\$ 838 million in 2025 to US\$ 1139 million in 2032; it is expected to grow at a CAGR of 4.6% from 2026 to 2032.

Positron emission tomography scanners are advanced medical imaging systems that use positron-emitting radiotracers to visualize molecular and functional processes within the human body. After a tracer participates in metabolic, receptor-binding or perfusion pathways, emitted positrons annihilate with electrons and generate pairs of photons that are detected simultaneously by the scanner. Computer reconstruction then produces three-dimensional images reflecting tissue physiology and molecular activity. Major product forms include standalone PET, PET/CT combining functional and anatomical information, and PET/MR integrating molecular imaging with superior soft-tissue characterization. A typical system consists of scintillation-crystal detectors, photodetectors, data-acquisition electronics, a gantry, patient table, reconstruction software and a CT or MR subsystem. Principal applications include oncology diagnosis and staging, treatment-response assessment, neurology, cardiology and radiopharmaceutical theranostics. In 2025, global Positron Emission Tomography (PET) Scanners production reached approximately 980 units.

Population aging and the expanding clinical burden of cancer, neurodegenerative disorders and cardiovascular diseases are shifting medical imaging from anatomical observation toward the assessment of cellular metabolism, receptor expression and disease mechanisms. The development of precision medicine and theranostics is strengthening the strategic role of PET in patient selection, treatment planning, response monitoring and recurrence evaluation. Total-body and long-axial-field-of-view PET, digital detectors, AI-enabled reconstruction and automated quantification are also

reducing scan times and injected doses while improving system throughput. In China, large medical-equipment configuration planning, tiered healthcare development and equipment-renewal programs are creating additional opportunities for regional nuclear-medicine centers and advanced hospitals.

PET scanners involve high acquisition costs, long project-development cycles and complex supporting infrastructure. Healthcare institutions must obtain applicable equipment-configuration approvals and establish nuclear-medicine operations that meet radiation-protection, room-environment, performance-testing and continuous quality-control requirements. Because many positron-emitting radiopharmaceuticals have short half-lives, scanner utilization depends heavily on cyclotrons, radiopharmacy centers and reliable regional distribution networks. Limited tracer availability can restrict operational efficiency outside major medical hubs. The market also faces shortages of nuclear-medicine physicians, medical physicists and technologists, reimbursement and examination-pricing pressure, and supply risks involving advanced detectors, electronic components and critical software.

Procurement demand is evolving from basic access to PET examinations toward higher sensitivity, faster acquisition, lower-dose imaging, accurate quantification and broader disease coverage. Oncology remains the principal application, while myocardial-perfusion, neurological receptor and brain-metabolism imaging are expanding demand from cardiology and neurology. Theranostics is also integrating PET more closely with radiopharmaceutical selection, dosimetry and treatment follow-up. Large hospital networks increasingly prioritize standardized protocols, remote interpretation, intelligent quality control and utilization management, while academic institutions favor long-axial-field-of-view systems, dynamic whole-body imaging and multi-tracer research capabilities. These trends are transforming the market from conventional equipment procurement into integrated clinical, research and digital-imaging platforms.

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

This Insight Report provides a comprehensive analysis of the global Positron Emission

Tomography (PET) Scanners 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 Positron Emission Tomography (PET) Scanners portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Positron Emission Tomography (PET) Scanners market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Positron Emission Tomography (PET) Scanners and breaks down the forecast by Type, 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 Positron Emission Tomography (PET) Scanners.

This report presents a comprehensive overview, market shares, and growth opportunities of Positron Emission Tomography (PET) Scanners market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

PET/CT Scanner

PET/MRI Scanner

Other

Segmentation by Detector Technology:

LSO/LYSO Detector

Digital SiPM Detector

Analog PMT Detector

Other

Segmentation by Clinical Application:

Oncology

Neurology

Cardiology

Other

Segmentation by Application:

Hospitals

Diagnostic Centers

Research Centers

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.

Siemens Healthineers

GE HealthCare

United Imaging Healthcare

Canon Medical Systems

Philips

Neusoft Medical

MinFound Medical

Key Questions Addressed in this Report

What is the 10-year outlook for the global Positron Emission Tomography (PET) Scanners market?

What factors are driving Positron Emission Tomography (PET) Scanners market growth, globally and by region?

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

How do Positron Emission Tomography (PET) Scanners market opportunities vary by end market size?

How does Positron Emission Tomography (PET) Scanners break out by Type, by Application?

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