

Computed Tomography Market - A Global and Regional Analysis: Focus on Type, Technology, End User, and Country - Analysis and Forecast, 2024-2033

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Abstracts

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Global Computed Tomography Market Overview

The global computed tomography market is projected to reach \$10.21 billion by 2033 from \$6.17 billion in 2023, growing at a CAGR of 5.22% during the forecast period 2024-2033. The key factors driving the growth of the global computed tomography market include the increasing number of CT scan procedures and rising demand for CT scanners, growing emphasis on effective and early disease diagnosis, and increasing focus on mobile CT scanners.

Market Introduction

The global computed tomography market consists of types of CT, such as stationary CT scanners and portable CT scanners.

Impact Analysis:

The computed tomography market has made an impact in the following ways:

Increasing Product Approval by Regulatory Authorities Leading to Various New Offerings Shaping the Market: The rising number of CT scanner product approvals by regulatory authorities reflects a growing trend in the medical technology sector. This increase signifies a positive shift in the industry, with several key factors contributing to

this phenomenon:

The realm of CT scanners has been experiencing a notable uptick in product approvals by regulatory authorities, marking a pivotal trend in the medical technology sector. This surge in approvals underscores the dynamic nature of innovation within CT scanner technology. As manufacturers constantly advance and refine these imaging devices, regulatory authorities are expected to play a crucial role in evaluating and approving new products to ensure they meet stringent standards of safety, efficacy, and performance.

Increasing Partnerships and Collaborations between Hospitals and Companies: The scanner domain signifies a strategic synergy where technological innovation meets clinical expertise to advance diagnostic capabilities and overall patient care. Companies such as Siemens Healthineers and Canon Medical are collaborating with research institutions such as the Mayo Clinic and the University of California, San Francisco, to develop photon-counting detectors. These detectors offer superior image quality with lower radiation doses, potentially revolutionizing patient safety and diagnostic accuracy. This collaboration brings together the expertise of industry leaders in detector technology with the clinical research prowess of renowned medical institutions, accelerating the development and implementation of this groundbreaking technology.

Market Segmentation:

Segmentation 1: by Type

Stationary CT scanners

Portable CT scanners

Stationary CT Scanners Segment to Continue Dominating the Computed Tomography Market (by Type)

Stationary CT scanners: Stationary CT scanners refer to computed tomography devices that remain fixed in a specific location within a facility, such as a hospital or diagnostic imaging center. These scanners are contrasted with portable or mobile CT scanners, which can be transported to different locations within a facility or even between different facilities.

Here are some key features and considerations related to stationary CT scanners:

Fixed Installation:

Stationary CT scanners are permanently installed in a dedicated room or suite within a medical facility. This room is designed to accommodate the equipment's size, provide appropriate radiation shielding, and ensure the safety of both patients and operators.

Versatility:

Stationary CT scanners are versatile and can accommodate a wide range of diagnostic imaging needs. They are capable of imaging various parts of the body, including the head, chest, abdomen, and musculoskeletal system.

High Image Quality:

Stationary CT scanners typically offer high image quality, providing detailed cross-sectional images of internal structures. Advances in technology have led to improved spatial resolution, faster scan times, and enhanced diagnostic capabilities.

Dedicated Rooms:

The rooms housing stationary CT scanners are designed to meet specific technical and safety requirements. These rooms include features such as lead-lined walls for radiation protection and proper ventilation systems.

Portable CT Scanners: Portable CT scanners are compact and mobile computed tomography devices designed for flexibility in imaging and patient care. Unlike traditional stationary CT scanners, portable CT scanners can be moved to different locations within a medical facility or transported to various healthcare settings, including intensive care units, operating rooms, or even in remote emergencies.

Here are some key features and considerations related to portable CT scanners:

Mobility:

The primary feature of portable CT scanners is their mobility. They are designed to be moved easily between different areas of a hospital or healthcare facility, allowing for on-demand imaging wherever it is needed.

Point-of-Care Imaging:

Portable CT scanners are well-suited for point-of-care imaging, providing healthcare professionals with the flexibility to bring the imaging technology directly to the patient, particularly in critical care settings.

Emergency and Trauma Imaging:

These scanners are often utilized in emergency departments and trauma centers, where quick and immediate imaging is crucial for diagnosing and managing critical conditions.

Bedside Imaging:

Portable CT scanners can be brought to the bedside, allowing for imaging of critically ill or immobile patients without the need for patient transportation to a dedicated imaging suite.

Based on type, the computed tomography market has been led by stationary CT scanners, which held a 65.51% share in 2022.

Segmentation 2: by Technology

High-Slice CT

Mid-Slice CT

Low-Slice CT

Cone Beam CT

High-Slice CT Segment to Continue Dominating the Computed Tomography Market (by Technology)

Based on technology, the computed tomography market has been led by high-slice CT, which held a 38.82% share in 2022.

Segmentation 3: by End User

Hospitals and Ambulatory Surgery Centers

Diagnostic Centers

Others

Hospitals and Ambulatory Surgery Centres Segment to Continue Dominating the Computed Tomography Market (by End User)

Based on end user, the computed tomography market has been led by hospitals and ambulatory surgery centers, which held a 57.66% share in 2022.

Segmentation 4: by Region

North America

U.S.

Canada

Europe

U.K.

Germany

France

Italy

Spain

Rest-of-Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest-of-Asia-Pacific

Latin America

Brazil

Mexico

Rest-of-Latin America

Middle East and Africa

Turkiye

Israel

Rest-of-Middle East and Africa

China dominated the Asia-Pacific computed tomography market in 2022. China has been actively investing in the adoption of advanced CT technologies, including multi-slice CT scanners and innovations in image reconstruction and dose reduction.

Recent Developments in the Computed Tomography Market

In November 2023, Canon Medical Systems revealed substantial enhancements to its CT portfolio, which involved the launch of two new scanners. These include a new flagship system, the Aquilion ONE/INSIGHT Edition, and a high-throughput system, the Aquilion Serve SP, both unveiled at the ongoing

Radiological Society of North America Congress (RSNA) in Chicago, Illinois, U.S.

In May 2023, Glidewell agreed to distribute Carestream Health Dental's cone beam computed tomography (CBCT) imaging systems in both the U.S. and Canada.

In November 2022, Fujifilm unveiled the SCENARIA View Focus Edition CT Scanner featuring Cardio StillShot, a novel Cardiac Motion Correction feature.

In May 2023, St. Luke's University Health Network chose GE Healthcare for a \$30 million acquisition of state-of-the-art CT technology driven by artificial intelligence.

In December 2023, Koning Health and Gentle Scan Health, LP, a venture firm committed to advancing improved breast imaging solutions, declared their strategic partnership. This collaboration would transform breast cancer imaging by deploying 20 cutting-edge Koning Vera Breast CT devices throughout the U.S. in 2024

In November 2023, Philips extended mobile CT lung screening to underserved communities globally.

In December 2022, NeuroLogica Corp. reported the inaugural deployment of its SmartMSU featuring OmniTom Elite. This specialized ambulance has been equipped with a compact computed tomography (CT) scanner designed for head imaging in the Asia-Pacific region.

In December 2023, Siemens Healthineers declared FDA clearance for the SOMATOM Pro.Pulse Dual-Source CT Scanner.

Demand – Drivers and Limitations

Market Demand Drivers:

Increasing Number of CT Scan Procedures and Rising Demand for CT Scanners: The escalating demand for CT scans is closely linked to the rising number of procedures conducted globally. This surge in demand can be attributed to several factors

contributing to the widespread adoption of CT imaging across diverse medical applications.

The diagnostic versatility of CT scans, owing to their ability to provide detailed and cross-sectional images, has led to their extensive use in various medical specialties, including radiology, oncology, cardiology, neurology, and emergency medicine. Additionally, the prevalence of chronic diseases, such as cancer and cardiovascular conditions, has prompted an increased reliance on CT scans for accurate diagnosis, staging, and treatment monitoring.

In emergency and trauma care settings, the rapid imaging capabilities of CT scans make them indispensable for assessing injuries and guiding prompt medical interventions. Technological advancements, including multi-slice CT scanners and features such as dose reduction technologies and artificial intelligence integration, have further enhanced the diagnostic capabilities of CT scans.

Growing Emphasis on Effective and Early Disease Diagnosis: The role of computed tomography (CT) has become increasingly pivotal in response to the growing emphasis among patients on effective and early disease diagnosis. As individuals prioritize proactive healthcare management, CT technology is expected to play a crucial role in meeting these expectations. With its high-resolution imaging capabilities, CT scans enable healthcare professionals to detect and diagnose various medical conditions at early stages. This is particularly significant in the context of cancer screening, where CT scans contribute to the early detection of tumors and lesions. The speed and efficiency of CT imaging also align with the desire for swift diagnoses, which is crucial for timely medical interventions.

Increasing Focus on Mobile CT Scanners: The demand for mobile CT scanners has been experiencing a notable surge, driven by the evolving landscape of healthcare and a growing recognition of the practical advantages offered by portable imaging solutions. The ability to deploy CT scanners on a mobile platform provides unprecedented flexibility, making them particularly appealing in emergency scenarios, such as natural disasters or mass casualty events.

Their rapid deployment capabilities prove crucial for timely medical responses, enabling on-the-spot diagnostic assessments. Moreover, mobile CT scanners bridge accessibility gaps in remote or rural areas, ensuring that individuals in underserved regions can benefit from advanced diagnostic imaging without the need for extensive travel.

These units contribute to operational continuity in healthcare facilities facing disruptions, offering a means to continue diagnostic services during maintenance or renovation periods. Increased patient throughput, cost-effectiveness, and technological advancements further underscore the rising demand for mobile CT scanners, making them indispensable tools for healthcare providers seeking efficient, adaptable, and state-of-the-art imaging solutions.

Market Restraints:

Substantial Expenses Associated with Installation and Maintenance: The substantial expenses associated with the installation and maintenance of computed tomography (CT) systems stem from several factors. Firstly, the acquisition of a CT scanner involves a significant upfront cost, which includes the purchase of the hardware, software, and associated components. The complexity and sophistication of CT technology contribute to the initial financial investment.

Installation costs encompass the expenses related to site preparation, including electrical work, shielding, and construction modifications to accommodate the CT scanner. Specialized infrastructure requirements, such as radiation protection measures and environmental controls, contribute to these installation expenses.

Ambiguous Reimbursement Landscape in Developing Countries: The ambiguous reimbursement landscape for CT in developing countries requires concerted efforts from policymakers, healthcare providers, and relevant stakeholders. Establishing transparent reimbursement policies, leveraging international best practices, improving data collection and analysis, and aligning reimbursement structures with the specific needs of diverse healthcare settings are crucial steps toward achieving clarity and fairness in reimbursement for CT services.

Market Opportunities:

Integration with Other Imaging Modalities: The upward trajectory in the integration of computed tomography (CT) with other imaging modalities signifies a progressive evolution in the landscape of medical imaging. This trend has been driven by a multidimensional approach to diagnostics, seeking to harness the complementary strengths of diverse imaging technologies. By combining CT with modalities such as magnetic resonance imaging (MRI), positron emission tomography (PET), and ultrasound, healthcare professionals gain access to a wealth of information that spans both structural and functional dimensions.

The fusion of anatomical and metabolic data enhances diagnostic precision, particularly in fields such as oncology, where nuanced insights are crucial for treatment planning. Real-time guidance during interventional procedures, streamlined workflows, and the potential for personalized medicine further underscore the advantages of this integrative approach. Technological advancements, coupled with a growing emphasis on holistic patient care, have propelled the exploration of synergies between CT and other modalities. As a result, this trend not only contributes to enhanced diagnostic capabilities but also exemplifies a strategic response to the evolving landscape of medical research, innovation, and patient-centric healthcare practices.

AI and Machine Learning Integration in Computed Tomography: The integration of AI and ML in CT imaging holds great promise, and it is essential to address challenges such as data privacy, ethical considerations, and the need for robust validation of AI algorithms. As these technologies continue to evolve, their role in CT is expected to grow, reshaping the landscape of medical imaging and improving patient outcomes.

How can this report add value to an organization?

Product/Innovation Strategy: The global computed tomography market has been extensively segmented based on various categories, such as technology, type, end user, and region. This can help readers get a clear overview of which segments account for the largest share and which ones are well-positioned to grow in the coming years.

Growth/Marketing Strategy: The strategy of new offerings accounted for the maximum number of key developments, i.e., nearly 43.55% of the total developments in the global computed tomography market between January 2020 and December 2023.

Competitive Strategy: The global computed tomography market has numerous established players with product portfolios. Key players in the global computed tomography market analyzed and profiled in the study involve established players offering products for computed tomography.

Methodology

Key Considerations and Assumptions in Market Engineering and Validation

Detailed secondary research was performed to ensure maximum coverage of manufacturers/suppliers operational in a country.

Exact revenue information, up to a certain extent, was extracted for each company from secondary sources and databases. The revenues specific to the technology, type, end user, and region were then estimated for each market player based on fact-based proxy indicators as well as primary inputs.

The scope of this report has been carefully derived based on interactions with experts in different companies across the world. This report provides a market study of computed tomography.

The market contribution of the computed tomography anticipated to be launched in the future has been calculated based on historical analysis. This analysis has been supported by proxy factors such as the innovation scale of the companies, the status of funding, collaborations, customer base, and patent scenario.

The scope of availability of computed tomography in a particular region has been assessed based on a comprehensive analysis of companies' prospects, regional end-user perception, and other factors impacting the launch of computed tomography in that region.

The base year considered for the calculation of the market size is 2023. A historical year analysis has been done for the period FY2020-FY2022. The market size has been estimated for FY2023 and projected for the period FY2024-FY2033.

Revenues of the companies have been referenced from their annual reports for FY2020-FY2023. For private companies, revenues have been estimated based on factors such as inputs obtained from primary research, funding history, product approval status, market collaborations, and operational history.

Regional distribution of the market revenue has been estimated based on the companies in each region and the adoption rate of computed tomography. All the numbers have been adjusted to a single digit after the decimal for better presentation in the report. However, the real figures have been utilized for compound annual growth rate (CAGR) estimation. The CAGR has been calculated for the period 2024-2033.

The market has been mapped based on the available computed tomography. All the key companies with significant offerings in this field have been considered

and profiled in this report.

Market strategies and developments of key players have been considered for the calculation of the potential of the market in the forecast period.

Primary Research:

The primary sources involve industry experts in the computed tomography market, including the market players offering computed tomography solutions. Resources such as CXOs, vice presidents, product managers, directors, territory managers, and business development have been interviewed to obtain and verify both qualitative and quantitative aspects of this research study.

The key data points taken from the primary sources include:

- Validation and triangulation of all the numbers and graphs

- Validation of the report's segmentation and key qualitative findings for computed tomography

- Understanding the competitive landscape and business model

- Current and proposed production values of a product by market players

- Validation of the numbers of the different segments of the market in focus

- Percentage split of individual markets for regional analysis

Secondary Research

Open Sources

European Medicines Agency (EMA), Food and Drug Administration (FDA), Frontiers, World Health Organization (WHO), American College of Surgeons (ACS), and National Center for Biotechnology Information (NCBI), among others

Annual reports, SEC filings, and investor presentations of the leading market

players

Company websites and detailed study of their portfolios

Gold standard magazines, journals, whitepapers, press releases, and news articles

Databases

The key data points taken from the secondary sources include:

Segmentation and percentage share estimates

Company and country understanding and data for market value estimation.

Key industry/market trends

Developments among top players

Qualitative insights into various aspects of the market, key trends, and emerging areas of innovation

Quantitative data for mathematical and statistical calculations

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on inputs gathered from primary experts and analyzing company coverage, type portfolio, and market penetration.

Some prominent names in the global computed tomography market include:

Canon Medical Systems Corporation

Carestream Health

Fujifilm Holdings Corporation

GE Healthcare

Neusoft Medical Systems Co., Ltd.

Koninklijke Philips N.V.

Siemens Healthineers AG

Shenzhen Anke High-tech Co., Ltd.

Shanghai United Imaging Healthcare Co., LTD

VATECH

Planmed Oy

Koning Health

NeuroLogica Corp.

Xoran Technologies, LLC

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