India CT Scanners Market By Technology (16-slice, 32-slice, 128 & Above slice, 64-slice, 8-slice and less than 8 slices), By Modality (Fixed and Mobile), By Device Architecture (O-Arm and C-Arm), By Application (Cardiology, Oncology, Neurology, Others), By End User (Hospital, Diagnostic Centers, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F

Market Report | 2024-06-28 | 80 pages | TechSci Research

AVAILABLE LICENSES:

- Single User License $3500.00
- Multi-User License $4500.00
- Custom Research License $7500.00

Report description:

India CT Scanners Market was valued at USD 223.55 Million in 2024 and is anticipated to project impressive growth in the forecast period with a CAGR of 4.43% through 2030. The India CT Scanners Market is being propelled by several key factors. An increasing prevalence of chronic diseases such as cancer, cardiovascular disorders, and neurological conditions is driving the demand for advanced diagnostic imaging technologies like CT scanners. Rising healthcare expenditures, coupled with a growing emphasis on early disease detection and prevention, are spurring investments in medical infrastructure and diagnostic facilities across the country. Technological advancements in CT scanner systems, such as multi-slice and high-resolution imaging capabilities, are enabling more accurate diagnoses and treatment planning, further fueling market growth. Government initiatives to improve healthcare access, expand insurance coverage, and promote medical tourism are contributing to the expansion of the India CT Scanners Market. Overall, these factors converge to create a favorable environment for market expansion, with increasing demand for CT scanners expected to drive sustained growth in the coming years.

Key Market Drivers

Technological Advancements

Technological advancements in CT scanner systems are driving innovation and shaping the India CT Scanners Market. Manufacturers are continuously improving scanner hardware, software, and imaging techniques to enhance diagnostic accuracy, image quality, and patient safety. Innovations such as multi-slice CT scanners, dual-energy CT scanners, and spectral imaging capabilities enable healthcare providers to obtain detailed anatomical and functional information with greater speed and

precision. Advancements in artificial intelligence (AI) and machine learning algorithms are facilitating automated image analysis, workflow optimization, and decision support, further enhancing the clinical utility and efficiency of CT scanners. As technology continues to evolve, the adoption of advanced CT scanner systems is expected to increase, driving market growth and expanding the scope of diagnostic imaging applications. For instance in January 2019, one of the recent developments in CT Scanners in India was Siemen's Somatom Go.top CT Scanner (cardiovascular edition). First installed in Madurai, Tamil Nadu, the machine uses Stellar detector technology and can perform a whole-body scan up to 200 cm, having a speed of 175 mm per second and a rotation time of 0.33 seconds.

Growing Healthcare Expenditure

Increasing healthcare expenditures in India are fueling investments in medical infrastructure, diagnostic facilities, and equipment such as CT scanners. With rising incomes, expanding insurance coverage, and growing awareness about the importance of healthcare, consumers are willing to spend more on medical services and treatments. Government initiatives such as Ayushman Bharat and National Health Mission are aimed at improving healthcare access, affordability, and quality, driving investments in healthcare infrastructure and diagnostic capabilities across the country. Healthcare providers are expanding their imaging departments, upgrading existing equipment, and investing in advanced technologies to meet the growing demand for diagnostic imaging services, including CT scans. This trend is expected to continue as India's healthcare sector undergoes rapid expansion and modernization, driving market growth in the CT scanners segment.

Increasing Adoption of Minimally Invasive Procedures

The growing adoption of minimally invasive procedures is driving the demand for CT scanners in India. Minimally invasive techniques such as image-guided interventions, biopsy procedures, and minimally invasive surgeries rely on CT imaging for accurate localization, planning, and navigation. CT scanners provide real-time visualization of anatomical structures, pathology, and surgical instruments, enabling precise targeting and minimally invasive access to target sites. These procedures offer several advantages over traditional open surgeries, including reduced trauma, faster recovery times, and improved patient outcomes. As healthcare providers and patients increasingly favor minimally invasive approaches, the demand for CT scanners for interventional and surgical applications is expected to rise, driving market growth in the India CT Scanners Market.

Expanding Applications in Oncology

CT scanners play a critical role in the diagnosis, staging, and monitoring of cancer, driving their adoption in oncology practices across India. With cancer incidence on the rise and the need for early detection and personalized treatment strategies becoming increasingly important, the demand for advanced imaging technologies such as CT scanners is growing. CT scans are used for tumor detection, characterization, and assessment of treatment response, providing valuable information for oncologists to guide treatment decisions and monitor disease progression. Advancements in CT imaging techniques such as perfusion imaging, diffusion-weighted imaging, and dual-energy CT enable the evaluation of tumor vascularity, tissue perfusion, and treatment efficacy, further enhancing the clinical utility of CT scanners in oncology. As cancer continues to be a leading cause of morbidity and mortality in India, the demand for CT scanners for oncological imaging is expected to increase, driving market growth in the coming years.

Key Market Challenges

High Initial Investment and Maintenance Costs

One of the primary challenges confronting the India CT Scanners Market is the high initial investment and ongoing maintenance costs associated with acquiring and operating CT scanner systems. The capital expenditure required to purchase state-of-the-art CT scanners, particularly advanced models with multi-slice capabilities and specialized imaging functionalities, can be prohibitively expensive for many healthcare facilities, especially smaller clinics and rural hospitals with limited budgets. The costs associated with installation, training, and ongoing maintenance contracts further add to the financial burden. These high upfront and recurring expenses pose a significant barrier to market entry and adoption, limiting access to advanced diagnostic imaging technologies in underserved areas and among economically disadvantaged populations. Addressing this challenge requires innovative financing options, government subsidies, and collaborative procurement models to make CT scanners more affordable and accessible to a wider range of healthcare providers.

Shortage of Skilled Personnel and Training

Another critical challenge facing the India CT Scanners Market is the shortage of skilled personnel and training opportunities for

operating and maintaining CT scanner systems. While the demand for diagnostic imaging services continues to grow, there is a scarcity of qualified radiologists, radiologic technologists, and biomedical engineers with specialized training in CT imaging techniques and protocols. The rapid pace of technological advancements in CT scanner systems requires ongoing training and professional development to ensure optimal utilization and performance. However, training opportunities and educational resources for CT imaging are limited, particularly in rural and remote areas where healthcare infrastructure and educational institutions are scarce. This shortage of skilled personnel and training hampers the effective deployment and utilization of CT scanners, leading to suboptimal imaging quality, longer wait times, and increased risk of errors and inefficiencies. Addressing this challenge requires investments in workforce development, capacity-building initiatives, and public-private partnerships to expand training programs and enhance the skills of healthcare professionals involved in CT imaging.

Key Market Trends

Increasing Medical Tourism

India's growing prominence as a medical tourism destination is driving the demand for advanced healthcare services, including diagnostic imaging with CT scanners. With its world-class healthcare infrastructure, skilled medical professionals, and cost-effective treatment options, India attracts a large number of international patients seeking medical care. Diagnostic imaging plays a crucial role in the medical tourism ecosystem, as patients often require comprehensive evaluations and imaging studies as part of their treatment plans. CT scanners offer high-quality imaging capabilities and rapid turnaround times, making them essential tools for medical tourism destinations. Medical tourists often seek cutting-edge technologies and advanced treatment options not available in their home countries, further driving the demand for CT scanners in India. As medical tourism continues to grow, the demand for CT scanners catering to international patients is expected to rise, driving market growth in the segment.

Rapid Urbanization and Healthcare Infrastructure Development

The rapid urbanization and development of healthcare infrastructure in India are driving the adoption of CT scanners in urban and semi-urban areas. As cities expand, healthcare facilities are mushrooming to cater to the growing population and rising demand for medical services. Hospitals, diagnostic centers, and specialty clinics are investing in state-of-the-art imaging equipment, including CT scanners, to meet the diagnostic needs of their patients. Government initiatives such as Smart Cities Mission and National Urban Health Mission are focused on improving healthcare access and infrastructure in urban areas, further driving investments in medical imaging technology. The concentration of healthcare facilities and diagnostic centers in urban hubs creates a conducive environment for the adoption of advanced imaging technologies, fueling market growth in the CT scanners segment.

Segmental Insights

Technology Insights

Based on the Technology, the 16-slice CT scanners are currently dominating due to their balance between performance and cost-effectiveness. While higher slice machines offer superior image quality and faster scanning speeds, they often come with a higher price tag, making them less accessible to a broader range of healthcare facilities, especially in resource-constrained settings. The 16-slice CT scanners strike a crucial balance between diagnostic capabilities and affordability, making them the preferred choice for many hospitals, diagnostic centers, and clinics across India. These machines provide sufficient imaging resolution and coverage for a wide range of clinical applications, including routine diagnostic imaging, trauma evaluations, and interventional procedures, while offering a more favorable cost-to-performance ratio compared to higher slice machines.

The versatility and reliability of 16-slice CT scanners make them well-suited for various healthcare settings, from urban tertiary care hospitals to rural primary health centers, catering to the diverse needs of patients and healthcare providers nationwide. While higher slice machines such as 64-slice, 128 & above slice scanners offer advanced imaging capabilities and are increasingly being adopted by larger healthcare facilities and academic institutions, the 16-slice CT scanners remain the cornerstone of diagnostic imaging in India, driving market demand and shaping the landscape of CT scanning technology.

Application Insights

Based on Application, cardiology emerges as the dominant domain driving market growth and technological advancements. CT scanners play a crucial role in cardiovascular imaging, offering non-invasive and rapid assessment of cardiac anatomy, function, and pathology. With the rising burden of cardiovascular diseases (CVDs) in India, including coronary artery disease, stroke, and heart failure, there is a growing demand for advanced imaging technologies to support early diagnosis, risk stratification, and

treatment planning. CT coronary angiography (CTA) has emerged as a valuable tool for detecting coronary artery stenosis, assessing plaque burden, and guiding coronary interventions, offering high diagnostic accuracy and clinical utility. Cardiac CT imaging is increasingly being used for pre-procedural planning and post-procedural evaluation of structural heart interventions, transcatheter aortic valve replacement (TAVR), and electrophysiological procedures. The integration of CT scanners with advanced cardiac imaging techniques such as myocardial perfusion imaging, cardiac calcium scoring, and functional assessment further enhances their diagnostic capabilities and clinical value in cardiology practice.

Advancements in CT scanner technology, including high-resolution imaging, dual-source CT, and spectral imaging, enable comprehensive evaluation of cardiac morphology and function, driving the adoption of CT scanners in cardiology departments nationwide. While Oncology and Neurology also represent significant domains for CT imaging applications in India, the dominance of Cardiology in driving market demand underscores the critical role of CT scanners in cardiovascular care and the growing emphasis on preventive cardiology, early disease detection, and personalized treatment approaches in the Indian healthcare landscape.

Regional Insights

The Western region stands out as the dominant region propelling market growth and innovation. Comprising states like Maharashtra, Gujarat, Rajasthan, and Goa, the Western region boasts a confluence of factors that contribute to its market dominance. It is home to several major metropolitan cities such as Mumbai, Pune, and Ahmedabad, which serve as pivotal hubs for healthcare infrastructure, research, and technological advancement. These urban centers house a dense network of hospitals, diagnostic centers, and specialty clinics equipped with state-of-the-art CT scanner facilities, catering to the diagnostic needs of a vast population base.

The Western region's robust economic landscape, characterized by industrialization, trade, and commerce, generates significant demand for advanced healthcare services, including diagnostic imaging. As a result, healthcare providers in the Western region prioritize investments in medical technology, including CT scanners, to meet the growing demand for diagnostic services and maintain competitiveness in the healthcare market. The presence of leading medical institutions, academic centers, and research organizations in the Western region fosters collaboration, innovation, and knowledge exchange in the field of diagnostic imaging, driving advancements in CT scanner technology and clinical applications. While other regions such as North, South, and East also contribute to the India CT Scanners Market, the Western region's economic dynamism, healthcare infrastructure, and commitment to technological innovation position it as the primary driver of market growth and development in the country.

Key Market Players

- Wipro GE Healthcare Private Limited
- Siemens Healthcare Private Limited
- Philips India Limited
- Erbis Engineering Co., Ltd.
- Hitachi, Ltd.
- Allengers Medical Systems Ltd.
- Carestream Health India Pvt. Ltd.
- United Imaging Healthcare Co., Ltd.
- Trivitron Healthcare Pvt. Ltd.
- Medirays Imaging Pvt. Ltd.

Report Scope:

In this report, the India CT Scanners Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- India CT Scanners Market, By Technology:
  - 16-slice
  - 32-slice
  - 128 & Above slice
  - 64-slice
  - 8-slice

- less than 8 slices

India CT Scanners Market, By Modality:

- Fixed
- Mobile

India CT Scanners Market, By Device Architecture:

- O-Arm
- C-Arm

India CT Scanners Market, By Application:

- Cardiology
- Oncology
- Neurology
- Others

India CT Scanners Market, By End User:

- Hospital
- Diagnostic Centers
- Others

India CT Scanners Market, By Region:

- North
- South
- West
- East

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India CT Scanners Market.

Available Customizations:

India CT Scanners Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

India CT Scanners Market By Technology (16-slice, 32-slice, 128 & Above slice, 64-slice, 8-slice and less than 8 slices), By Modality (Fixed and Mobile), By Device Architecture (O-Arm and C-Arm), By Application (Cardiology, Oncology, Neurology, Others), By End User (Hospital, Diagnostic Centers, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F

Market Report | 2024-06-28 | 80 pages | TechSci Research

To place an Order with Scotts International:

- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	$3500.00
	Multi-User License	$4500.00
	Custom Research License	$7500.00
	VAT	
	Total	

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	

Address*		City*	
Zip Code*		Country*	
		Date	2026-02-19
		Signature	