

Europe Helical CT Scanner Market Size and Forecast (2021 - 2031)

<https://marketpublishers.com/r/E9EBDAAD4A1CEN.html>

Date: April 2026

Pages: 199

Price: US\$ 3,450.00 (Single User License)

ID: E9EBDAAD4A1CEN

Abstracts

The Europe Helical CT Scanner Market is projected to grow significantly, reaching an estimated US\$ 344.7 million by 2031, up from US\$ 233.3 million in 2024, reflecting a compound annual growth rate (CAGR) of 5.8% from 2025 to 2031. This growth is driven by several factors, including the rising prevalence of chronic diseases such as cancer, cardiovascular, and neurological disorders, which are increasing the demand for advanced diagnostic imaging technologies like helical CT scanners. These scanners are favored for their ability to provide faster and more accurate imaging, which is crucial for effective diagnosis and treatment planning.

Technological advancements in CT imaging have significantly enhanced the appeal of helical CT scanners. Improvements in image resolution, reduced scan times, and lower radiation doses are making these devices more attractive to healthcare providers. Additionally, increased healthcare expenditure and government initiatives aimed at enhancing diagnostic infrastructure across Europe are further propelling market growth. The aging population in Europe, which is more susceptible to complex health conditions requiring detailed imaging, is also contributing to the demand for reliable diagnostic tools. The expansion of private healthcare facilities and the growing trend towards minimally invasive procedures, which rely heavily on precise imaging, are additional factors driving the market.

The Europe helical CT scanner market is segmented by type, slice type, and end user. By type, the market is divided into Double-Layer and Multi-Layer scanners, with the Multi-Layer segment leading the market in 2024. In terms of slice type, the market is categorized into 1-16 Slices, 17-64 Slices, 128-160 Slices, and >160 Slices, with the 17-64 Slices segment dominating in 2024. The end-user segmentation includes Hospitals, Medical Centers, and Ambulatory Surgical Centers, with hospitals being the

largest segment in 2024.

As the field of diagnostic imaging evolves, patient safety, particularly concerning radiation exposure, has become a critical focus. Manufacturers and healthcare providers are prioritizing low-dose radiation technologies to ensure effective diagnostics while safeguarding patient health. Helical CT scanners are known for their speed and precision, performing continuous 360-degree rotations while moving the patient through the gantry to produce detailed 3D images. Their unmatched diagnostic value in trauma, oncology, and cardiovascular imaging is tempered by concerns about radiation exposure, especially for vulnerable populations such as children and patients requiring frequent scans.

To address these concerns, key advancements in helical CT scanners are centered on radiation dose reduction without compromising diagnostic efficacy. Technologies such as Automatic Exposure Control (AEC) systems, found in models like GE's Revolution Apex and Siemens' SOMATOM Force, dynamically adjust tube current based on patient anatomy, significantly reducing radiation doses. For instance, AEC can lower doses by up to 40% in less dense areas while increasing it in denser regions. Studies have shown that optimizing tube current can maintain detection sensitivity while drastically reducing effective doses.

Market players, including GE Healthcare, Siemens Healthineers, and Canon Medical Systems, are integrating advanced dose-reduction technologies into their products. GE's Revolution CT employs Adaptive Statistical Iterative Reconstruction (ASiR-V) to achieve up to an 82% reduction in dose compared to traditional methods, while Siemens' SOMATOM Definition Edge utilizes SAFIRE technology to maintain diagnostic accuracy at lower doses. Iterative reconstruction algorithms, such as Philips' iDose4 and Canon's AIDR 3D, further enhance image quality by refining low-dose images, allowing for significant dose reductions while maintaining diagnostic integrity.

The market is also witnessing innovations such as high-pitch helical modes exclusive to dual-source scanners, which can achieve sub-mSv cardiac scans, minimizing motion artifacts and exposure time. This transformation in the helical CT scanner market is focused on enhancing patient safety and technological innovation, with manufacturers integrating smart dose-reduction features and adhering to safety protocols to improve patient care and expand the applications of CT imaging in preventive medicine and chronic disease management.

Geographically, the market is segmented into Germany, France, the UK, Italy, Spain,

and the Rest of Europe, with Germany holding the largest market share in 2024. The country reported over 605,000 new cancer cases in 2022, highlighting the need for advanced diagnostic tools. Additionally, Germany's high rates of coronary heart disease and the volume of coronary angioplasties performed underscore the reliance on CT imaging for procedural planning and follow-up.

Key players in the Europe Helical CT Scanner Market include Koninklijke Philips NV, Canon Inc, GE HealthCare Technologies Inc, Siemens Healthineers AG, and others, who are employing strategies such as product innovation, expansion, and mergers and acquisitions to enhance their market presence. The research methodology for this market analysis involved comprehensive secondary research and primary interviews with industry stakeholders to validate findings and gain insights into market dynamics.

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