Surgical Instrument Tracking Systems Market by Component (Software, Hardware, Services), Technology (Barcode, Radiofrequency Identification), End User (Hospitals, Ambulatory Surgical Centers, Other End Users), Region - Global Forecast to 2030

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Report description:

The global surgical instrument tracking systems market is projected to reach USD 751.2 million by 2030 from USD 371.4 million in 2025, at a CAGR of 15.2% during the forecast period. The surgical instrument tracking systems market is seeing consistent growth due to various factors. Growth in this market is mainly driven by the growing prevalence of chronic diseases requiring surgical interventions and severe traumatic injuries. Owing to the increasing growth in such incidences, the volume of elective surgical procedures is increasing, which is driving the demand for surgical instrument tracking systems products. In addition, rising demand for effective blood loss management and increasing availability of advanced surgical instrument tracking systems products are expected to drive market. However, the high cost of surgical instrument tracking systems products, dearth of skilled professionals, and stringent regulatory framework are expected to hamper the growth of this market during the forecast period.

https://www.marketsandmarkets.com/Images/surgical-instrument-tracking-system-market-Overview.webp

The readers segment of the surgical instrument tracking systems market, by type of hardware, led the market in 2024.
Based on the component, the surgical instrument tracking systems market is divided into software, hardware, and services. Among these, the hardware segment is expected to grow at the fastest rate during the forecast period. The hardware segment is further segmented into readers, tags, and other hardware components. Among these, the readers segment is expected to grow at the fastest rate during the forecast period, owing to the increasing adoption of RFID and barcode technologies in hospitals for efficient tracking and management of surgical instruments. RFID readers, available in handheld, fixed, and mobile forms, offer real-time data capture through radio waves, enabling fast and accurate instrument identification, minimizing human errors, and streamlining surgical workflows. The growing demand to reduce data entry errors, improve supply chain efficiency, and prevent

loss or misplacement of valuable surgical tools further accelerates the deployment of readers. Additionally, as healthcare institutions prioritize digital transformation and automation, the integration of readers with software platforms facilitates enhanced visibility, asset tracking, and regulatory compliance. The rising need for cost-effective, scalable tracking solutions and continuous advancements in reader technology reinforce the segment's rapid growth trajectory across global healthcare facilities.

The RFID segment of the surgical instrument tracking systems market is expected to grow at the fastest rate during the forecast period.

The surgical instrument tracking systems market, based on technology, is divided into barcode and Radiofrequency Identification (RFID). The Radiofrequency Identification (RFID) segment is projected to be the fastest-growing segment in the surgical instrument tracking systems market over the forecast period. This is due to its superior capabilities over traditional barcode systems. RFID enables high-speed, batch, and non-line-of-sight scanning, allowing for efficient tracking of multiple instruments simultaneously, even in challenging environments where labels may be unreadable. Its ability to store and update dynamic data, offer higher transmission rates, and operate under extreme sterilization conditions makes it highly suitable for surgical workflows. Additionally, RFID tags uniquely identify each instrument, facilitating real-time visibility and better inventory management. For hospitals and medical device manufacturers, RFID simplifies compliance with regulations like UDI, reduces manual errors, and improves workflow accuracy. Despite higher upfront costs and low adoption in emerging markets, the increasing need for automation, safety, and traceability in surgical procedures is expected to drive the accelerated adoption of RFID technology during the forecast period, particularly in advanced healthcare settings.

In 2024, the North America region accounted for the highest market share in the surgical instrument tracking systems market.

The global surgical instrument tracking systems market is segmented into five major regions, namely, North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. In 2024, the North American region accounted for the largest share across the surgical instrument tracking systems market. North America accounts for the highest share in the surgical instrument tracking systems market, primarily due to the strong presence of advanced healthcare infrastructure, high surgical volumes, and stringent regulatory mandates. The region is bifurcated into the US and Canada, with the US holding the largest share owing to early adoption of innovative healthcare technologies and the enforcement of the FDA's Unique Device Identification (UDI) regulations. These regulations mandate comprehensive tracking of medical instruments, driving widespread deployment of tracking solutions. Furthermore, hospitals and surgical centers in the region are focused on improving workflow efficiency, minimizing surgical errors, and enhancing patient safety, all of which contribute to the increased demand for surgical instrument tracking systems. The presence of leading market players and robust investments in healthcare IT also support the dominance of North America in this market.

A breakdown of the primary participants referred to for this report is provided below:

- By Company Type: Tier 1- 40%, Tier 2- 30%, and Tier 3- 30%
- By Designation: C Level- 50%, Director Level- 30%, and Others- 20%
- By Region: North America- 30%, Europe- 25%, Asia Pacific- 20%, Latin America- 15%, and Middle East & Africa- 10%.

Note 1: Companies are classified into tiers based on their total revenue. As of 2024, Tier 1 = >USD 10.0 billion, Tier 2 = USD 1.0 billion to USD 10.0 billion, and Tier 3 = <USD 1.0 billion.

Note 2: C-level primaries include CEOs, CFOs, COOs, and VPs.

Note 3: Others include sales managers, marketing managers, business development managers, product managers, distributors, and suppliers.

The players operating in the surgical instrument tracking systems market include Fortive Corporation (US), Becton, Dickinson and Company (US), Getinge AB (Sweden), STERIS (US), Securitas Healthcare LLC (US), Mobile Aspects (US), Integra LifeSciences Holdings Corporation (US), Xerafy (Singapore), B. Braun Melsungen AG (Germany), SpaTrack Medical Limited (UK), Syrma SGS (India), Scanlan International, Inc. (US), Case Medical (US), ASANUS Medizintechnik GmbH (Germany), Keir Surgical Ltd. (Canada), TechnoSource Australia Pty Ltd. (Australia), NuTrace (US), ASSA ABLOY AB (Sweden), ScanCARE Pty. Ltd. (US), RFID Discovery (UK), Healthtech Pivot LLP (India), RMS Omega Healthcare (US), Avery Dennison Corporation (US), Caretag (Denmark), and RapID

Surgical (US).

Research Coverage

This report studies the surgical instrument tracking systems market based on component, technology, end user, and region. The report also studies factors (such as drivers, restraints, opportunities, and challenges) affecting market growth and provides details of the competitive landscape for market leaders. Furthermore, the report analyzes micro markets with respect to their individual growth trends and forecasts the revenue of the market segments with respect to five major regions (and the respective countries in these regions).

Reasons to Buy the Report

The report will enable established firms as well as entrants/smaller firms to gauge the pulse of the market, which, in turn, would help them to gain a larger market share. Firms purchasing the report could use one or a combination of the following strategies to strengthen their market presence.

This report provides insights on the following pointers:

-□Analysis of key drivers (Need to meet FDA Unique Device Identification mandates, requirement for better inventory and asset management practices, Growing medical device and surgical instruments market), restraints (high system costs, long investment cycles and low ROIs), opportunities (Emerging economies, development of active RFID technology for instruments), challenges (Technology limitations)

-□Market Penetration: Complete knowledge of the spectrum of products presented by the major companies in the surgical instrument tracking systems market

-□Product Development/Innovation: Comprehensive understanding of the forthcoming trends, research and development initiatives, and product launches within the surgical instrument tracking systems market

-□Market Development: Complete knowledge about profitable developing regions

-□Market Diversification: Exhaustive knowledge of new goods, expanding geographies, and current changes in the surgical instrument tracking systems industry helps to diversify the market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players such as Fortive Corporation (US), Becton, Dickinson and Company (US), Getinge AB (Sweden), STERIS (US), Securitas Healthcare LLC (US), Mobile Aspects (US), Xerafy (Singapore), B. Braun SE (Germany), SpaTrack Medical Limited (UK), Syrma SGS (India), Scanlan International, Inc. (US), and Case Medical (US), among others.

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