

Minimally Invasive Surgery Market by Type (Surgical Device, Imaging System, Electrosurgical Device, Endoscopy Device, Medical Robotics), Application (Urological, Vascular, Oncological), End User (Hospital, Clinic, ASC) Region-Global Forecast to 2030

Market Report | 2025-09-02 | 390 pages | MarketsandMarkets

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Report description:

The global minimally invasive surgery market is projected to reach USD 199.30 million by 2030 from USD 94.45 million in 2025, at a CAGR of 16.1% during the forecast period. The growth of the minimally invasive surgery market is fueled by the increasing prevalence of chronic diseases such as gastrointestinal disorders, cancer, and cardiovascular conditions, which often require frequent surgical intervention. Patients and providers are more and more favoring MIS because of its advantages over open surgery, including shorter recovery times, fewer complications, and reduced hospital stays. Furthermore, the expanding number of hospitals, better healthcare infrastructure, and rising hospital admissions are boosting the demand for advanced surgical options. These factors, along with continuous technological innovation, are speeding up the global adoption of MIS procedures across various specialties.

<https://www.marketsandmarkets.com/Images/minimally-invasive-medical-robotics-imaging-visualization-systems-market1-Overview.webp>

The handheld instruments segment of the minimally invasive surgery market, by type of surgical device, had the highest market share in 2024.

By product, the global minimally invasive surgery market is segmented into surgical devices, imaging & visualization systems, electrosurgical devices, endoscopy devices, and medical robotics. Among these, in 2024, the surgical devices segment held the largest market share. This segment is further broken down into handheld instruments, guiding devices, inflation systems, and

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laparoscopy devices. In 2024, the handheld instruments segment had the highest share, due to their wide application, affordability, and ease of use across various surgical fields. These mechanical tools-such as graspers, retractors, dilators, forceps, and suturing devices-are vital in laparoscopic, cardiothoracic, urological, neurological, and cardiovascular surgeries. Their versatility and compatibility with standard MIS systems make them essential in both advanced and resource-limited healthcare environments. Surgeons favor these instruments for their ergonomic design, tactile feedback, and precise control. Moreover, their reusability and lower maintenance costs improve hospital procurement efficiency. The global rise in MIS procedures, especially in general and specialized surgeries, continues to boost demand, maintaining this segment's market leadership.

The cardiothoracic surgery segment of the minimally invasive surgery market had the second-highest market share in 2024, based on application.

Based on application, the minimally invasive surgery market is segmented into cardiothoracic surgery, vascular surgery, neurological surgery, ENT & respiratory surgery, cosmetic surgery, gastrointestinal & abdominal surgery, gynecological surgery, urological surgery, orthopedic surgery, oncology surgery, dental surgery, and other applications. In 2024, the cardiothoracic surgery segment held the second-highest market share, driven by the global high burden of cardiovascular diseases. According to the CDC, heart disease remains the leading cause of death in the U.S., with 919,032 deaths in 2023, equal to one in every three deaths and one death every 34 seconds. This alarming rate of prevalence increases the demand for effective, less invasive surgical options. Minimally invasive cardiothoracic procedures provide notable advantages, such as less trauma, shorter hospital stays, and quicker recovery, making them more favored by both patients and healthcare providers. Innovations like robotic-assisted systems and minimally invasive valve replacements further boost adoption, strengthening this segment's prominent role in the overall MIS market.

In 2024, North America accounted for the largest share of the minimally invasive surgery market.

The global minimally invasive surgery market is segmented into five major regions, namely, North America, Europe, the Asia Pacific, Latin America, and the Middle East & Africa. Among these in 2024, the North American region held the largest share in the minimally invasive surgery market, driven by the high prevalence of chronic diseases, increasing demand for cosmetic procedures, and the presence of leading medical device manufacturers. According to the CDC, as of 2024, 129 million Americans have at least one chronic disease, with 6 in 10 Americans having at least one, and 4 in 10 having two or more chronic diseases. This growing disease burden drives demand for less invasive, more effective surgical options. Additionally, cosmetic minimally invasive procedures are experiencing strong growth, with over 9.8 million neuromodulator injections (up 4%) and 3.7 million skin resurfacing procedures (up 6%) performed in 2024, indicating rising patient preference. The region also benefits from advanced healthcare infrastructure, favorable reimbursement policies, and widespread adoption of innovative technologies. Furthermore, the presence of major industry players like Johnson & Johnson, Stryker, Boston Scientific, Abbott, and Intuitive Surgical ensures ongoing product innovation and availability, solidifying North America's leadership in the global MIS 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 minimally invasive surgery market include Medtronic (Ireland), Johnson & Johnson (US), Stryker (US), Boston Scientific Corporation (US), Siemens Healthineers AG (Germany), Abbott (US), GE HealthCare (US), Koninklijke Philips N.V. (Netherlands), Intuitive Surgical Operations, Inc. (US), FUJIFILM Corporation (Japan), B Braun SE (Germany), Globus Medical, Inc. (US), Integra LifeSciences Corporation (US), KARL STORZ SE & Co. KG (Germany), Nipro (Japan), Smith+Nephew (UK), Getinge AB (Sweden), CONMED Corporation (US), Teleflex Incorporated (US), Olympus Corporation (Japan), CooperSurgical, Inc. (US), Applied Medical Resources Corporation (US), OTU Medical Inc. (US), and ATMOS MedizinTechnik GmbH & Co. KG (Germany).

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Research Coverage

This report examines the minimally invasive surgery market based on component, technology, end user, and region. It also analyzes factors such as drivers, restraints, opportunities, and challenges that influence market growth, and outlines the competitive landscape of market leaders. Additionally, the report reviews micro markets and their individual growth trends, and forecasts the revenue of market segments across five major regions and their respective countries.

Reasons to Buy the Report

The report will help both established and smaller firms gauge the market pulse, which can, in turn, assist them in gaining a larger market share. Firms purchasing the report can use one or a combination of the strategies mentioned below to strengthen their market presence.

This report provides insights on the following pointers:

- Analysis of key drivers (increasing number of hospitals and surgeries, Increasing adoption of MIS over open surgeries, advantages of robot-assisted surgery & training in rehabilitation therapy), restraints (high cost of robotic systems), opportunities (emerging markets, increasing adoption of advanced robotics in ambulatory surgical centers), challenges (changing regulatory landscape in medical devices).
- Market Penetration: Complete knowledge of the spectrum of products presented by the major companies in the minimally invasive surgery market
- Product Development/Innovation: Comprehensive understanding of the forthcoming trends, research and development initiatives, and product launches within the minimally invasive surgery market
- Market Development: Complete knowledge about profitable developing regions
- Market Diversification: Exhaustive knowledge of new goods, expanding geographies, and current changes in the minimally invasive surgery industry helps to diversify the market
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Medtronic (Ireland), Johnson & Johnson (US), Stryker (US), Boston Scientific Corporation (US), Siemens Healthineers AG (Germany), Abbott (US), GE HealthCare (US), Koninklijke Philips N.V. (Netherlands), Intuitive Surgical Operations, Inc. (US), FUJIFILM Corporation (Japan), and among others.

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