

## **Surgical Robots Market Report and Forecast 2025-2034**

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### **Report description:**

The global surgical robots market was valued at USD 11.10 Billion in 2024, driven by the increasing demand for minimally invasive surgeries across the globe. The market is anticipated to grow at a CAGR of 16.50% during the forecast period of 2025-2034 to achieve a value of USD 51.12 Billion by 2034.

#### Surgical Robots Market Overview

Surgical robots are medical devices that are used by surgeons in the healthcare industry to perform robot assisted surgeries. The use of surgical robots has revolutionized the field of surgery. With the use of these surgical robots, surgeons are now achieving better results, precision, accuracy, and control over surgical procedures. Robot-assisted surgical procedures provide more patient safety and shorter recovery time. These robots are manipulated by the surgeons sitting at another end and managing them through a console while the robot interprets the controls and performs actions accordingly.

#### Surgical Robots Market Growth Drivers

##### Robotic Surgical System Innovation Set to Boost Market Growth

The growing demand for minimally invasive procedures and advancements in robotic technology are key market drivers for the surgical robot sector. For instance, In November 2024, Johnson & Johnson MedTech received FDA approval for its OTTAVA robotic surgical system, marking a significant milestone for robotic surgery. This approval allows for clinical trials in U.S. hospitals, paving the way for the system's deployment in various surgical specialties. The OTTAVA system aims to address gaps in current robotic surgery systems, enhancing surgical precision and efficiency. As clinical trials progress, the system is poised to drive adoption and competition, expanding the market significantly in the forecast period.

#### Integration of Robotics to Accelerate Surgical Robots Market Value

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The global shortage of skilled medical professionals, exacerbated by an ageing population, is a key driver for the adoption of robotic assistance in surgery. Sony's development of a microsurgery assistance robot, unveiled in May 2024, aims to alleviate these challenges. The robot features automatic surgical instrument exchange and precision control, particularly for delicate microsurgical procedures. The robot's ability to assist in highly complex surgeries, such as microvascular anastomosis, is set to revolutionise the field. As this technology matures, it will likely expand the scope of surgical robots, enabling more surgeons to perform intricate operations and driving market growth.

### Surgical Robots Market Trends

The market is witnessing several trends and developments to improve the current scenario. Some of the notable trends are as follows:

#### Rapid Growth in Adoption of Robotic-Assisted Surgery Driving Market Growth

The market is experiencing accelerated growth due to rising adoption of minimally invasive surgeries. Hospitals and healthcare providers increasingly prefer robotic systems for their precision, reduced recovery times, and lower complication rates. Advancements in artificial intelligence and machine learning further enhance robotic capabilities, driving demand. Key regions such as North America, Europe, and Asia-Pacific are leading this adoption, supported by improved healthcare infrastructure and increased patient awareness. Additionally, the surge in chronic diseases and the ageing population globally are contributing to market growth, ensuring sustained demand for robotic surgical systems.

#### Technological Innovations to Fuel Surgical Robots Market Demand

Continuous technological advancements are transforming the market, introducing improved capabilities and expanding applications. Features such as AI-powered decision-making, advanced imaging, and haptic feedback enable greater precision during surgeries. Innovations like single-port robotic systems and wireless connectivity are enhancing usability and efficiency. Start-ups and established players are investing heavily in R&D to introduce cost-effective and compact robotic systems. Additionally, collaborations between technology firms and healthcare providers are boosting innovation. These developments are not only making robotic surgery more accessible but also driving its integration into varied specialities like orthopaedics, neurology, and general surgery.

#### Increased Investments and Funding Activities to Bolster Surgical Robots Market Growth

The market value of surgical robots is witnessing a robust increase due to growing investments from private and public sectors. Healthcare providers are allocating higher budgets for robotic systems to enhance service quality and attract patients. Venture capital firms and investors recognise the market's growth potential, which leads to significant funding for innovative start-ups. Governments in developed and developing regions are also supporting robotic surgery adoption through subsidies and infrastructure development. With the entry of new players and mergers in the industry, the competitive landscape is fostering value creation and pushing market growth.

#### Surge in Regulatory Approvals to Impact Surgical Robots Market Size

In November 2024, Sysmex Corporation announced the successful performance of the first overseas surgery (robot-assisted radical prostatectomy) using the "hinotori Surgical Robot System" at Singapore General Hospital. This milestone follows the regulatory approval of the hinotori in Singapore and Malaysia in 2023 and 2024, respectively. The hinotori system, originally approved in Japan in 2020, supports more precise procedures in medical specialties such as urology, gastrointestinal surgery, and gynecology. The system's expansion beyond Japan into the global market, particularly in Asia, is expected to contribute to the

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growing demand for robotic-assisted surgery, driving market growth. The increasing adoption of minimally invasive surgeries and the need for precision will continue to propel the global market in the forecast period.

#### Surgical Robots Market Segmentation

Surgical Robots Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

##### Market Breakup by Component

- Robotic Systems
- Instruments and Accessories
- Services

##### Market Breakup by Mechanism of Control

- Computer Control
- Direct Telemanipulator

##### Market Breakup by Application

- Orthopedic Surgery
- Endometriosis
- General Surgery
- Neurosurgery
- Thoracic Surgery
- Colorectal Surgery
- Gynaecology
- Heart Surgery
- Urologic Surgery
- Others

##### Market Breakup by End User

- Hospitals and Clinics
- Ambulatory Surgical Centers
- Others

##### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

##### Surgical Robots Market Share

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## Robotic Systems to Lead the Segment by Component

Robotic systems are expected to hold a substantial market share due to their widespread adoption is driven by advancements in robotic technology, offering greater precision, flexibility, and control during surgeries. Increasing investments in R&D by major players and the rising demand for minimally invasive procedures fuel their growth. Robotic systems, being essential and high-cost components, significantly contribute to the market's revenue. This segment is poised for robust growth as healthcare providers continue upgrading surgical infrastructure, and emerging economies increasingly adopt robotic systems, creating a lucrative opportunity for manufacturers in the forecast period.

## Surgical Robots Market Segmentation by Mechanism of Control to Hold a Significant Share

Computer-controlled surgical robots will likely dominate the mechanism of control segment due to their ability to provide precise, consistent, and real-time assistance during surgeries. These systems leverage advanced imaging and data processing to enhance accuracy and reduce human error. Their integration with artificial intelligence and machine learning further strengthens their position, offering predictive insights and optimising surgical outcomes. The increasing preference for automation in surgical procedures and continuous technological advancements are key drivers. This segment is expected to maintain its dominance as healthcare facilities globally prioritise adopting computer-controlled systems to improve patient care and streamline surgical processes.

## Surgical Robots Market Share by Application to Witness Substantial Growth

The urologic surgery segment is predicted to hold a major share driven by the prevalence of urological conditions and the growing demand for minimally invasive procedures. Robotic-assisted techniques such as prostatectomies and nephrectomies are widely preferred for their precision and reduced recovery times. Increasing awareness among patients and practitioners about the benefits of robotic surgery further supports this segment's dominance. The integration of advanced imaging and robotic tools continues to enhance outcomes in urological applications. As the incidence of urological diseases rises globally, this segment is well-positioned to drive future market growth.

## Hospitals and Clinics to Hold a Significant Surgical Robots Market by End User

Hospitals and clinics are estimated to dominate the segment by end users due to the benefit of higher budgets and advanced infrastructure to adopt robotic systems, ensuring improved patient outcomes. The increasing demand for minimally invasive surgeries and the concentration of skilled professionals in hospitals further bolster their leadership. Government funding and private investments in hospital modernisation projects are also key drivers. As healthcare institutions worldwide strive to offer state-of-the-art surgical solutions, this segment is expected to maintain its dominance and significantly contribute to market growth during the forecast period.

## Surgical Robots Market Analysis by Region

North America is expected to hold a major share of the market, driven by a high adoption rate of advanced medical technologies, significant healthcare expenditure, and a robust network of skilled surgeons. The region's dominance is further bolstered by favourable reimbursement policies and continuous innovation from prominent manufacturers headquartered in the region.

Europe is also expected to lead, supported by widespread governmental investments in healthcare infrastructure and training. The Asia Pacific is rapidly emerging, propelled by rising medical tourism and increasing demand for minimally invasive procedures. Latin America and the Middle East & Africa contribute smaller shares due to limited accessibility and economic constraints, though growth potential exists through expanding private healthcare investments and infrastructure development in

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urban centres.

## Leading Players in the Surgical Robots Market

The key features of the market report comprise patent analysis, funding and investment analysis, and strategic initiatives by the leading players. The major companies in the market are as follows:

### Intuitive Surgical Inc.

Intuitive Surgical, headquartered in Sunnyvale, California, was established in 1995. The company is a global leader in robotic-assisted surgical technology, known for its flagship da Vinci Surgical System. It specialises in developing innovative robotic platforms that enable minimally invasive surgeries, improving precision and patient outcomes. Intuitive's portfolio spans across multiple surgical fields, including urology, gynaecology, and general surgery. With a strong focus on research and development, the company continues to set benchmarks in the robotic surgery market, driving advancements in healthcare technologies worldwide.

### Stryker India Private Limited

Stryker India Private Limited, part of Stryker Corporation, is headquartered in Gurgaon, India, and was established in 1998. The company focuses on medical technology and innovation, offering a diverse range of products in orthopaedics, surgical equipment, and neurotechnology. Stryker India delivers advanced robotic systems, including the Mako Robotic-Arm, which enables precise orthopaedic procedures. Its portfolio is tailored to meet the evolving needs of Indian healthcare professionals, promoting minimally invasive solutions. With a commitment to quality and innovation, Stryker India is a key player in the Indian medical devices market.

### Johnson & Johnson Services, Inc.

Johnson & Johnson Services, headquartered in New Brunswick, New Jersey, was founded in 1886. A global leader in healthcare, the company's portfolio encompasses pharmaceuticals, medical devices, and consumer health products. Its surgical robotics division is led by the Ottava platform, designed to enhance minimally invasive surgeries. Johnson & Johnson integrates cutting-edge technology and clinical expertise, focusing on patient-centric innovations. With a legacy of improving global healthcare, the company continues to expand its footprint in robotic surgery, aiming to redefine surgical standards and deliver superior outcomes.

### Medtronic Public Limited Company

Medtronic Public Limited Company, headquartered in Dublin, Ireland, was established in 1949. A leader in medical technology, its portfolio includes solutions for cardiovascular, neurological, and surgical markets. Medtronic's Hugo Robotic-Assisted Surgery System is a significant innovation, enabling minimally invasive procedures with enhanced precision. The company's focus on research and development drives advancements in surgical robotics, aiming to improve patient care and accessibility. With a strong presence in over 150 countries, Medtronic remains dedicated to addressing complex healthcare challenges and shaping the future of surgical technologies globally.

Other key players in the market include Smith & Nephew plc, Zimmer Biomet Holdings, Inc., Asensus Surgical US, Inc., Siemens Healthcare GmbH, CMR Surgical Limited, THINK Surgical, Inc., and Renishaw plc.

## Key Questions Answered in the Surgical Robots Market

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- What was the global surgical robots market value in 2024?
- What is the surgical robots market forecast outlook for 2025-2034?
- What is market segmentation based on components?
- How is the market segmented based on the mechanism of control?
- What is market segmentation based on application?
- How is the market segmented based on end users?
- What are the major factors aiding the surgical robots market demand?
- How has the market performed so far and how is it anticipated to perform in the coming years?
- What are the market's major drivers, opportunities, and restraints?
- What are the major surgical robots market trends?
- Which component will lead the market segment?
- Which mechanism of control will lead the market segment?
- Which application will lead the market segment?
- Which end user will lead the market segment?
- Who are the key players involved in the surgical robots market?
- What is the patent landscape of the market?
- What are the current unmet needs and challenges in the market?
- How are partnerships, collaborations, mergers, and acquisitions among the key market players shaping the market dynamics?

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