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Robotic Assisted Surgery Systems Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: By Product Type [Systems, Consumables and Accessories, and Software and Services], Application (Gynecological Surgery, Cardiovascular Procedure, Neurosurgery, Orthopedic Surgery, Laparoscopy, Urology, and Other Applications), End User (Hospitals, Ambulatory Surgery Centers, and Other End Users), and Geography (North America, Europe, Asia Pacific, South & Central America, and Middle East & Africa)

https://marketpublishers.com/r/RA448AE5DBFAEN.html
Date: November 2023
Pages: 150
Price: US$ 5,190.00 (Single User License)
ID: RA448AE5DBFAEN

Abstracts

The robotic-assisted surgery systems market is expected to grow from US$ 7.831 billion in 2022 to US$ 23.816 billion by 2030; it is anticipated to record a CAGR of 14.9% from 2022 to 2030.

The robotic-assisted surgery systems market encompasses a growing array of technologically advanced surgical platforms that integrate robotics, imaging, and navigation systems to assist surgeons in performing minimally invasive procedures with increased precision and control. These systems are designed to enhance surgical capabilities, improve patient outcomes, and minimize the invasiveness of traditional surgical techniques. Robotic-assisted surgery systems offer a range of benefits, including enhanced dexterity, three-dimensional visualization, and tremor filtration,

allowing surgeons to perform complex procedures with greater accuracy and maneuverability. These systems often enable surgeons to access difficult-to-reach anatomical areas, leading to reduced trauma and faster patient recovery times. Additionally, the integration of robotic technology in surgery is known to minimize the risk of complications, lower the need for blood transfusions, and ultimately contribute to improved post-operative outcomes.

The increasing prevalence of chronic diseases drives the growth of the drug discovery services market.

Throughout the projected period, increasing research studies utilizing robotic-assisted operations are anticipated to fuel market expansion. For instance, in September 2022, a study comparing robotic-assisted fluoroscopic-guided and ultrasound-guided renal access for percutaneous nephrolithotomy was carried out by the Nagoya City University (NCU) Graduate School of Medical Sciences team. The study's findings supported the revolutionary robotic device's safety and ease of use, which may lessen the training burden on surgeons and enable more hospitals to perform PCNL procedures. This method, which uses robotics driven by artificial intelligence, may open the door to the automation of comparable interventional surgery procedures, which might speed up the process and possibly lower the risk of complications.

Additionally, the market for robotically assisted surgical systems is expanding as a result of the rise in chronic disease cases and the growing popularity of minimally invasive surgeries due to their advantages over open surgery and success rate. For example, according to news released by The Hindu in August 2022, Apollo Health City in Hyderabad has completed more than 500 robotically assisted gynecological procedures in India. As a result, the country's growing use of MIS procedures—which are less painful than open surgery—is fueling the market's rise.

In November 2022, the first urological treatment in north India to be completed with the Hugo robotic-assisted surgery (RAS) system was also reported by India Medtronic Private Limited, a wholly-owned subsidiary of Medtronic plc, and Venkateshwar Hospital in Delhi.

The robotic-assisted surgery systems market is divided on the basis of process, type, molecule type, therapeutic area, and end user. Based on the process, the robotic assisted surgery systems market is segmented into target selection and validation, hit to lead identification, and others - assay development and screening, etc. By type, the robotic assisted surgery systems market is segmented into biology services, medicinal

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chemistry drug metabolism, and pharmacokinetics. In terms of molecule type, the robotic assisted surgery systems market is classified as biologics and small molecules. On the basis of therapeutic areas, the robotic assisted surgery systems market is differentiated into cardiovascular diseases, oncology, neurology, diabetes, respiratory diseases, and others. Furthermore, the end-user segment is classified into Pharmaceutical and Biotechnology Companies, Academic Institutes, and Others.

The robotic assisted surgery systems market is divided on the basis of product type, application, and end user. Based on the product type, the robotic assisted surgery systems market is segmented into systems, consumables and accessories, and software and services. By application, the robotic assisted surgery systems market is segmented into gynecological surgery, cardiovascular, neurosurgery, orthopedic surgery, laparoscopy, urology, and other applications. Furthermore, the end-user segment is classified into hospitals, ambulatory surgery centers, and other end-users. Based on geography, the robotic assisted surgery systems market is divided into North America (the US, Canada, and Mexico), Europe (the UK, Germany, France, Italy, Spain, and the Rest of Europe), Asia Pacific (China, Japan, India, South Korea, Australia, and the Rest of Asia Pacific), Middle East & Africa (the UAE, Saudi Arabia, South Africa, and the Rest of Middle East & Africa), and South & Central America (Brazil, Argentina, and the Rest of South & Central America).

Based on geography, the robotic assisted surgery systems market is divided into North America, Europe, Asia Pacific, Middle East & Africa, and South & Central America. North America is the most significant contributor to the growth of the robotic assisted surgery systems market. The regional market is being driven by the growing use of automated surgical instruments and the growth of next-generation healthcare system facilities in the US. Furthermore, it is projected that the lack of surgeons and medical professionals in the US compared to the patient population will push the regional market for robot-assisted surgical systems. Furthermore, the need for robot-assisted surgical systems in this region is being driven by the increased prevalence of chronic diseases like diabetes, cancer, and cardiovascular disease in the US. Major players in the market for robot-assisted surgical systems mostly focus on technology development and launch new robotic instruments to keep their leading positions. Furthermore, the growing need for automated surgical equipment across the globe would likely promote the entry of new companies into the market. Furthermore, it is anticipated that rivals would become more competitive as a result of strategic industrial market advancements made by significant industry players through mergers, acquisitions, and cooperative partnerships.

Centers for Disease Control and Prevention (CDC) and Food and Drug Administration

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(FDA) are a few key primary and secondary sources referred to while preparing the report on the drug discovery services market.

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Contents

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11. PRE AND POST COVID-19 IMPACT

12. INDUSTRY LANDSCAPE

12.1 Mergers and Acquisitions
12.2 Agreements, Collaborations, Joint Ventures
12.3 New Product Launches
12.4 Expansions and Other Strategic Developments

13. COMPETITIVE LANDSCAPE

13.1 Heat Map Analysis by Key Players
13.2 Company Positioning and Concentration

14. ROBOTIC ASSISTED SURGERY SYSTEMS MARKET - KEY COMPANY PROFILES

14.1 Intuitive Surgical Inc.
  14.1.1 Key Facts
  14.1.2 Business Description
  14.1.3 Products and Services
  14.1.4 Financial Overview
  14.1.5 SWOT Analysis
  14.1.6 Key Developments
Note - Similar information would be provided for below list of companies
14.2 Stryker Corporation
14.3 Johnson and Johnson Inc.
14.4 SRI International Inc.
14.5 Accuray Incorporated
14.6 Renishaw PLC
14.7 Medtronic PLC
14.8 Smith and Nephew PLC
14.9 Brainlab
14.10 Globus Medical

15. APPENDIX

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