

Global Flexible Surgical Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Flexible Surgical Robot market size was valued at US\$ 2903 million in 2025 and is forecast to a readjusted size of US\$ 6291 million by 2032 with a CAGR of 11.8% during review period.

In 2024, global flexible surgical robot production reached approximately 2.8k units, with an average global market price of around US\$ 0.9 million per unit. Flexible surgical robots are a type of surgical robotic system used for minimally invasive surgery. They feature flexible or bendable instrument arms, soft catheters, or continuum mechanical structures to adapt to complex, narrow, or curved body cavities, achieving greater accessibility and tissue protection than traditional rigid instruments. These robots typically combine minimally invasive intubation, endoscopic imaging, force/tactile feedback, and precise remote control. They are capable of performing procedures such as puncture, sampling, suturing, or ablation in gastrointestinal, thoracic, urological, reproductive, and neurosurgery settings requiring curved access paths. Their design goals are to minimize mechanical damage to normal tissue, improve surgical field of view and precision, and accelerate patient recovery and minimize postoperative complications. Technically, flexible surgical robots focus on flexible materials and structural engineering, miniaturized actuators, closed-loop control, and advanced imaging integration. They are often equipped with specialized end-use instruments and artificial intelligence-assisted positioning and path planning. Clinical deployment requires the devices to meet surgical-grade standards for controllability, reliability, and repeatability, and to undergo rigorous clinical validation and regulatory approval to ensure safety and effectiveness in complex anatomical environments.

The upstream of the flexible surgical robot industry chain mainly relies on high-precision

components and core raw material suppliers, such as precision motors, optical devices, medical-grade metals and polymer materials. Representative companies include Japan's Yaskawa, Germany's Zeiss, and the United States' Johnson & Johnson medical device material supplier; the midstream is dominated by flexible surgical robot R&D and manufacturers, including Intuitive Surgical, CMR Surgical, Medtronic, Sino-US Mutual Benefit, Minimally Invasive Medical Robotics and other companies, which are responsible for system integration and innovative design; the downstream is mainly aimed at general hospitals, specialized hospitals and medical service groups, promoting their clinical application and promotion in minimally invasive surgery, urology, gynecology and cardiothoracic surgery.

The annual production capacity of a single line is approximately 30 units, with a gross profit margin of approximately 35%-45%.

The flexible surgical robot market is undergoing rapid R&D and clinical trials. Driven by the trend toward minimally invasive surgery, an aging population, and the need to reduce hospital stays and complications, market attention and capital investment continue to rise. Furthermore, technological advances in soft robotics, nano-/micro-actuators, endoscopic imaging, and AI-powered image navigation are expanding the indications and surgical feasibility of flexible robots, creating clear long-term growth potential. The competitive landscape in the industry exhibits a hybrid dynamic of startup innovation and mergers and acquisitions/partnerships with major companies. On the one hand, innovative companies are rapidly validating applicable scenarios through differentiated technologies and clinical collaborations; on the other hand, traditional medical device and large robotics companies are seeking scale through technology integration, channel acquisition, and regulatory experience. Short-term constraints include high R&D and clinical trial costs, stringent regulatory requirements, hospital procurement budgets, the learning curve for surgeons, and the need for demonstrable efficacy and long-term cost-effectiveness (including reimbursement/reimbursement coverage). Therefore, market adoption still requires expansion from a narrow range of high-value indications to a wider range of common surgical procedures. Overall, if technology can continue to improve to simplify operating procedures, reduce unit costs and accumulate solid clinical evidence, flexible surgical robots are expected to become an important supplement to minimally invasive surgery and achieve significant commercial breakthroughs in the next few years through vertical scenario entry and deep integration with imaging/AI.

This report is a detailed and comprehensive analysis for global Flexible Surgical Robot market. Both quantitative and qualitative analyses are presented by manufacturers, by

region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Flexible Surgical Robot market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flexible Surgical Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flexible Surgical Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flexible Surgical Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Flexible Surgical Robot

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Flexible Surgical Robot market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Endotics, Johnson & Johnson, Boston Scientific, CMR Surgical, TransEnterix, Maxmore, Novus Medical, MicroPort Medical, LungHealth Medtech, Edge Medical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Flexible Surgical Robot market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Laparoscopic Surgical Robot

- Cardiac Surgery Robot

- Urologic Procedures Robot

- Others

Market segment by Application

- Hospital

- Ambulatory Surgical Centers

- Others

Major players covered

- Endotics

- Johnson & Johnson

- Boston Scientific

CMR Surgical

TransEnterix

Maxmore

Novus Medical

MicroPort Medical

LungHealth Medtech

Edge Medical

Agilis Robotics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Flexible Surgical Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flexible Surgical Robot, with price, sales quantity, revenue, and global market share of Flexible Surgical Robot from 2021 to 2026.

Chapter 3, the Flexible Surgical Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flexible Surgical Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Flexible Surgical Robot market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Flexible Surgical Robot.

Chapter 14 and 15, to describe Flexible Surgical Robot sales channel, distributors, customers, research findings and conclusion.

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