

# Global AI-based Surgical Robots Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global AI-based Surgical Robots market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Surgical Robots is a type of minimally invasive surgery. “Minimally invasive” means that instead of operating on patients through large incisions, we use miniaturized surgical instruments that fit through a series of quarter-inch incisions. When performing surgery with the da Vinci Si—the world’s most advanced surgical robot—these miniaturized instruments are mounted on three separate robotic arms, allowing the surgeon maximum range of motion and precision. The da Vinci’s fourth arm contains a magnified high-definition 3-D camera that guides the surgeon during the procedure.

According to our research, the global market for medical devices is estimated at US\$ 603 billion in the year 2023, and will be growing at a CAGR of 5% during next six years. The global healthcare spending contributes to occupy 10% of the global GDP and is continuously rising in recent years due to the increasing health needs of the aging population, the growing prevalence of chronic and infectious diseases and the expansion of emerging markets. The medical devices market plays a significant role in the healthcare industry. The market is driven by several factors, including the increasing demand for advanced healthcare services globally, advancements in medical technology, growing geriatric population, rising healthcare expenditure, and increasing awareness about early disease diagnosis and treatment.

The Global Info Research report includes an overview of the development of the AI-based Surgical Robots industry chain, the market status of General Surgery (Services,

Instrument and Accessories), Urology (Services, Instrument and Accessories), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of AI-based Surgical Robots.

Regionally, the report analyzes the AI-based Surgical Robots markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global AI-based Surgical Robots market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the AI-based Surgical Robots market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the AI-based Surgical Robots industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Services, Instrument and Accessories).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the AI-based Surgical Robots market.

**Regional Analysis:** The report involves examining the AI-based Surgical Robots market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the AI-based Surgical Robots market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to AI-based Surgical Robots:

**Company Analysis:** Report covers individual AI-based Surgical Robots manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards AI-based Surgical Robots. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (General Surgery, Urology).

**Technology Analysis:** Report covers specific technologies relevant to AI-based Surgical Robots. It assesses the current state, advancements, and potential future developments in AI-based Surgical Robots areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the AI-based Surgical Robots market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

AI-based Surgical Robots market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Services

Instrument and Accessories

### Market segment by Application

General Surgery

Urology

Orthopedic

Gynecology

Others

#### Major players covered

Accuray Incorporated

Hansen Medical

Intuitive Surgical, Inc.

Mazor Robotics

Medrobotics Corporation

Medtech Surgical

Stereotaxis, Inc.

TransEnterix

Titan Medical, Inc.

#### 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 AI-based Surgical Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI-based Surgical Robots, with price, sales, revenue and global market share of AI-based Surgical Robots from 2019 to 2024.

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

Chapter 4, the AI-based Surgical Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and AI-based Surgical Robots market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 AI-based Surgical Robots.

Chapter 14 and 15, to describe AI-based Surgical Robots sales channel, distributors, customers, research findings and conclusion.

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