

AI-based Surgical Robots Market Size, Trends, Analysis, and Outlook By Type (Services, Instruments and Accessories), By Application (Orthopedics, Neurology, Urology, Gynecology, Others), by Region, Country, Segment, and Companies, 2024-2030

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Abstracts

The global AI-based Surgical Robots market size is poised to register 20.43% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global AI-based Surgical Robots market across By Type (Services, Instruments and Accessories), By Application (Orthopedics, Neurology, Urology, Gynecology, Others).

The AI-based surgical robots market is experiencing significant growth, driven by increasing demand for minimally invasive surgical procedures, expanding applications in robotic-assisted surgery, and advancements in artificial intelligence (AI) and robotic technologies. AI-based surgical robots utilize advanced algorithms, computer vision, and machine learning techniques to enhance surgical precision, dexterity, and autonomy, enabling surgeons to perform complex procedures with improved accuracy, efficiency, and patient outcomes. With a focus on surgical innovation, patient safety, and healthcare efficiency, surgeons, hospitals, and medical device manufacturers are investing in AI-driven robotic platforms for various surgical specialties such as urology, gynecology, and general surgery. Moreover, advancements in sensor technology, haptic feedback, and teleoperation are driving market expansion, offering new opportunities to develop next-generation surgical robots with enhanced capabilities for real-time navigation, tissue manipulation, and intraoperative decision support. Additionally, collaborations between robotic technology developers, healthcare institutions, and regulatory agencies are driving innovation in AI-based surgical robotics, fostering the development of integrated systems, standardized protocols, and training

programs to facilitate the adoption of robotic-assisted surgery and improve surgical outcomes for patients worldwide.

AI-based Surgical Robots Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The AI-based Surgical Robots market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of AI-based Surgical Robots survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the AI-based Surgical Robots industry.

Key market trends defining the global AI-based Surgical Robots demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

AI-based Surgical Robots Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The AI-based Surgical Robots industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support AI-based Surgical Robots companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the AI-based Surgical Robots industry

Leading AI-based Surgical Robots companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report

provides key strategies opted for by the top 10 AI-based Surgical Robots companies.

AI-based Surgical Robots Market Study- Strategic Analysis Review

The AI-based Surgical Robots market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

AI-based Surgical Robots Market Size Outlook- Historic and Forecast Revenue in Three Cases

The AI-based Surgical Robots industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

AI-based Surgical Robots Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America AI-based Surgical Robots Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various AI-based Surgical Robots market segments. Similarly, Strong end-user demand is encouraging Canadian AI-based Surgical Robots companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico AI-based Surgical Robots market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe AI-based Surgical Robots Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European AI-based Surgical Robots industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European AI-based Surgical Robots market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific AI-based Surgical Robots Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for AI-based Surgical Robots in Asia Pacific. In particular, China, India, and South East Asian AI-based Surgical Robots markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America AI-based Surgical Robots Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa AI-based Surgical Robots Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East AI-based Surgical Robots market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for AI-based Surgical Robots.

AI-based Surgical Robots Market Company Profiles

The global AI-based Surgical Robots market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Accuray Inc, Activ Surgical Inc, CMR Surgical Inc, Intuitive Surgical Inc, Medrobotics Corp, Medtronic plc, Smith and Nephew, Stereotaxis Inc, Stryker Corp, Titan Medical Inc, Transenterix Inc (Asensus Inc), Zimmer Biomet

Recent AI-based Surgical Robots Market Developments

The global AI-based Surgical Robots market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

AI-based Surgical Robots Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Type

Services

Instruments and Accessories

By Application

Orthopedics

Neurology

Urology

Gynecology

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Accuray Inc

Activ Surgical Inc

CMR Surgical Inc

Intuitive Surgical Inc

Medrobotics Corp

Medtronic plc

Smith and Nephew

Stereotaxis Inc

Stryker Corp

Titan Medical Inc

Transenterix Inc (Asensus Inc)

Zimmer Biomet

Formats Available: Excel, PDF, and PPT

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Activ Surgical Inc

CMR Surgical Inc

Intuitive Surgical Inc

Medrobotics Corp

Medtronic plc

Smith and Nephew

Stereotaxis Inc

Stryker Corp

Titan Medical Inc

Transenterix Inc (Asensus Inc)

Zimmer Biomet

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