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US Medical Robotics and Computer-Assisted Surgical System Market Size study, by Type (Surgical Robotics, Rehabilitation Robotics, Noninvasive Robotic Radiosurgery, Hospital and Pharmacy Robots) Forecasts 2022-2032

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Abstracts

US Medical Robotics and Computer-Assisted Surgical System Market is valued at approximately USD 7.8 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 12.23% over the forecast period 2024-2032. Medical Robotics and Computer-Assisted Surgical Systems (MRCASS) are modern technologies that improve surgical precision, efficiency, and safety. These technologies let surgeons execute minimally invasive surgery by combining robots, sensor technology, and computer imaging. Using real-time feedback and high-definition 3D visualizations, Medical Robotics and Computer-Assisted Surgical Systems help surgeons make precise motions and minimize human error. Applications in neurosurgery, cardiology, and orthopedics are frequent since these specialties need accurate and reliable robotic assistance. By decreasing recovery times, post-operative discomfort, and complications, these technologies can improve overall patient outcomes and advance the surgical medicine field. The growing popularity of less invasive surgical techniques is shifting the market for medical robotics and computer-aided surgical systems. The surgical precision and results are being improved by robotic technology advancements and AI integration, which is propelling market expansion. The need for these cutting-edge surgical devices is also being propelling by increased spending on healthcare and the increased incidence of chronic illnesses.

The Medical Robotics and Computer-Assisted Surgical System Market in the US is propelled by multiple factors. A significant driver is the increasing demand for minimally invasive surgeries, which provide benefits such as shorter recovery times and reduced

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risk of complications. Technological advancements, particularly in AI and imaging systems, are enhancing surgical precision and outcomes, encouraging further adoption of these systems. The rising prevalence of chronic diseases and an aging population amplify the need for advanced surgical solutions. Furthermore, substantial investments in healthcare research and development, coupled with supportive government policies and funding, are fueling market growth. Additionally, high healthcare spending in the US fosters continuous innovation and the integration of these advanced systems. However, the significant investment needed to train surgeons and medical staff to effectively utilize these technologies can be a significant barrier. Comprehensive training programs are essential due to the complexity and specialized nature of robotic and computer-assisted surgical systems. Moreover, navigating complex regulatory approval processes adds further challenges, potentially prolonging the time it takes for new innovations to reach clinical practice.

Major market player included in this report are:
Titan Medical Inc.
MAKO Surgical Corp.
Hansen Medical Inc.
Ekso Bionics Holding Inc.
Intuitive Surgical, Inc.
THINK Surgical, Inc.
Accuray Incorporated
Blue Belt Technologies, Inc.
Company 9
Company 10

The detailed segments and sub-segment of the market are explained below:

By Type
Surgical Robotics
Rehabilitation Robotics
Noninvasive Robotic Radiosurgery
Hospital and Pharmacy Robots

Years considered for the study are as follows:
Historical year – 2022
Base year – 2023
Forecast period – 2024 to 2032

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Key Takeaways:
Market Estimates & Forecast for 10 years from 2022 to 2032.
Annualized revenues and Country level analysis for each market segment.
Detailed analysis of geographical landscape with Country level analysis of major regions.
Competitive landscape with information on major players in the market.
Analysis of key business strategies and recommendations on future market approach.
Analysis of competitive structure of the market.
Demand side and supply side analysis of the market.

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