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

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Abstracts

Global Medical Robotics and Computer-Assisted Surgical System Market is valued at approximately USD 20.5 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 12.21% over the forecast period 2024-2032. Medical Robotics and Computer-Assisted Surgical Systems (MRCASS) are advanced technologies designed to enhance surgical procedures' precision, efficiency, and safety. These systems integrate robotics, computer imaging, and sensor technology to assist surgeons in performing minimally invasive surgeries. By providing high-definition, 3D visualizations and real-time feedback, MRCASS enables surgeons to make more accurate movements and reduce human error. Applications in orthopedics, cardiology, and neurosurgery are common, as these fields require precise and stable robotic help. These systems can lead to shorter recovery times, less postoperative pain, and fewer complications, thereby improving overall patient outcomes and advancing the field of surgical medicine. The growing popularity of less invasive surgical techniques is driving the market for medical robotics and computer-aided surgical systems. Advances in robotics technology and AI integration enhance surgical precision and outcomes, shifting market growth. Additionally, rising healthcare investments and the growing prevalence of chronic diseases are fueling demand for these advanced surgical systems.

The growing demand for minimally invasive surgeries, which offer reduced recovery times and fewer complications, is a significant driver of this market. Technological advancements, such as AI and improved imaging, enhance surgical precision and

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outcomes, boosting market adoption. The rising prevalence of chronic diseases, combined with an aging global population, increases the need for advanced surgical interventions. Additionally, increased healthcare spending and favorable government initiatives supporting medical technology innovation further propel market growth. The emphasis on improving patient outcomes and healthcare efficiency underscores the continued expansion and investment in this market. However, the high cost of these advanced systems limits their adoption, especially in low and middle-income countries. Furthermore, the need for specialized training for surgeons and medical staff to effectively use these technologies can be a barrier. Regulatory challenges and lengthy approval processes also hinder market growth.

The key regions considered for the global Medical Robotics and Computer-Assisted Surgical System Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America dominates the Medical Robotics and Computer-Assisted Surgical System Market in terms of revenue due to its advanced healthcare infrastructure, characterized by state-of-the-art medical facilities and comprehensive healthcare services. High healthcare spending in the region supports continuous upgrades and adoption of cutting-edge medical technologies. The early uptake of novel surgical technologies is fueled by a strong network of premier hospitals and research institutes. Technological developments are fueled by significant expenditures in research and development, which are frequently supported by both the public and private sectors. Additionally, favorable government initiatives, such as funding for medical innovation and streamlined regulatory approvals, facilitate the integration of advanced robotic systems into clinical practice, reinforcing the region's market leadership. On the other hand, the Asia-Pacific region is the fastest-growing market for Medical Robotics and Computer-Assisted Surgical System.

Major market player included in this report are:
KUKA AG
Hitachi Medical Corporation
Renishaw PLC.
Titan Medical Inc.
Siemens Healthcare AG
Stanmore Implants Worldwide Ltd.
Smith and Nephew
Mazor Robotics
MAKO Surgical Corp.
Hansen Medical Inc.

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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

By Region:
North America
U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Middle East & Africa
Saudi Arabia
South Africa
RoMEA

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 regional 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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Contents

CHAPTER 1. GLOBAL MEDICAL ROBOTICS AND COMPUTER-ASSISTED SURGICAL SYSTEM MARKET DEFINITION AND RESEARCH ASSUMPTIONS

1.1. Research Objective
1.2. Market Definition
1.3. Research Assumptions
  1.3.1. Inclusion & Exclusion
  1.3.2. Limitations
  1.3.3. Supply Side Analysis
    1.3.3.1. Availability
    1.3.3.2. Infrastructure
    1.3.3.3. Regulatory Environment
    1.3.3.4. Market Competition
    1.3.3.5. Economic Viability (Consumer’s Perspective)
  1.3.4. Demand Side Analysis
    1.3.4.1. Regulatory frameworks
    1.3.4.2. Technological Advancements
    1.3.4.3. Environmental Considerations
    1.3.4.4. Consumer Awareness & Acceptance
1.4. Estimation Methodology
1.5. Years Considered for the Study
1.6. Currency Conversion Rates

CHAPTER 2. EXECUTIVE SUMMARY

2.1. Global Medical Robotics and Computer-Assisted Surgical System Market Size & Forecast (2022- 2032)
2.2. Regional Summary
2.3. Segmental Summary
  2.3.1. By Type
2.4. Key Trends
2.5. Recession Impact
2.6. Analyst Recommendation & Conclusion

CHAPTER 3. GLOBAL MEDICAL ROBOTICS AND COMPUTER-ASSISTED SURGICAL SYSTEM MARKET DYNAMICS

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3.1. Market Drivers
3.2. Market Challenges
3.3. Market Opportunities

CHAPTER 4. GLOBAL MEDICAL ROBOTICS AND COMPUTER-ASSISTED SURGICAL SYSTEM MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model
  4.1.1. Bargaining Power of Suppliers
  4.1.2. Bargaining Power of Buyers
  4.1.3. Threat of New Entrants
  4.1.4. Threat of Substitutes
  4.1.5. Competitive Rivalry
  4.1.6. Futuristic Approach to Porter's 5 Force Model
  4.1.7. Porter's 5 Force Impact Analysis
4.2. PESTEL Analysis
  4.2.1. Political
  4.2.2. Economical
  4.2.3. Social
  4.2.4. Technological
  4.2.5. Environmental
  4.2.6. Legal
4.3. Top investment opportunity
4.4. Top winning strategies
4.5. Disruptive Trends
4.6. Industry Expert Perspective
4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL MEDICAL ROBOTICS AND COMPUTER-ASSISTED SURGICAL SYSTEM MARKET SIZE & FORECASTS BY TYPE 2022-2032

5.1. Surgical Robotics Market
5.2. Rehabilitation Robotics Market
5.3. Noninvasive Robotic Radiosurgery Market
5.4. Hospital and Pharmacy Robots Market

CHAPTER 6. GLOBAL MEDICAL ROBOTICS AND COMPUTER-ASSISTED SURGICAL SYSTEM MARKET SIZE & FORECASTS BY REGION 2022-2032

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6.1. North America Medical Robotics and Computer-Assisted Surgical System Market
6.1.1. U.S. Medical Robotics and Computer-Assisted Surgical System Market
6.1.1.1. Type breakdown size & forecasts, 2022-2032
6.1.2. Canada Medical Robotics and Computer-Assisted Surgical System Market
6.2. Europe Medical Robotics and Computer-Assisted Surgical System Market
6.2.1. U.K. Medical Robotics and Computer-Assisted Surgical System Market
6.2.2. Germany Medical Robotics and Computer-Assisted Surgical System Market
6.2.3. France Medical Robotics and Computer-Assisted Surgical System Market
6.2.4. Spain Medical Robotics and Computer-Assisted Surgical System Market
6.2.5. Italy Medical Robotics and Computer-Assisted Surgical System Market
6.2.6. Rest of Europe Medical Robotics and Computer-Assisted Surgical System Market
6.3. Asia-Pacific Medical Robotics and Computer-Assisted Surgical System Market
6.3.1. China Medical Robotics and Computer-Assisted Surgical System Market
6.3.2. India Medical Robotics and Computer-Assisted Surgical System Market
6.3.3. Japan Medical Robotics and Computer-Assisted Surgical System Market
6.3.4. Australia Medical Robotics and Computer-Assisted Surgical System Market
6.3.5. South Korea Medical Robotics and Computer-Assisted Surgical System Market
6.3.6. Rest of Asia Pacific Medical Robotics and Computer-Assisted Surgical System Market
6.4. Latin America Medical Robotics and Computer-Assisted Surgical System Market
6.4.1. Brazil Medical Robotics and Computer-Assisted Surgical System Market
6.4.2. Mexico Medical Robotics and Computer-Assisted Surgical System Market
6.4.3. Rest of Latin America Medical Robotics and Computer-Assisted Surgical System Market
6.5. Middle East & Africa Medical Robotics and Computer-Assisted Surgical System Market
6.5.1. Saudi Arabia Medical Robotics and Computer-Assisted Surgical System Market
6.5.2. South Africa Medical Robotics and Computer-Assisted Surgical System Market
6.5.3. Rest of Middle East & Africa Medical Robotics and Computer-Assisted Surgical System Market

CHAPTER 7. COMPETITIVE INTELLIGENCE

7.1. Key Company SWOT Analysis
7.1.1. Company
7.1.2. Company
7.1.3. Company
7.2. Top Market Strategies

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7.3. Company Profiles
7.3.1. KUKA AG
7.3.1.1. Key Information
7.3.1.2. Overview
7.3.1.3. Financial (Subject to Data Availability)
7.3.1.4. Product Summary
7.3.1.5. Market Strategies
7.3.2. Hitachi Medical Corporation
7.3.3. Renishaw PLC.
7.3.4. Titan Medical Inc.
7.3.5. Siemens Healthcare AG
7.3.6. Stanmore Implants Worldwide Ltd.
7.3.7. Smith and Nephew
7.3.8. Mazor Robotics
7.3.9. MAKO Surgical Corp.
7.3.10. Hansen Medical Inc.

CHAPTER 8. RESEARCH PROCESS

8.1. Research Process
8.1.1. Data Mining
8.1.2. Analysis
8.1.3. Market Estimation
8.1.4. Validation
8.1.5. Publishing
8.2. Research Attributes "Chapter 1. Global Medical Robotics and Computer-Assisted Surgical System Market Definition and Research Assumptions

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