

# Medical Robotics and Computer-assisted Surgery: The Global Market

https://marketpublishers.com/r/MD8904F75FDEN.html

Date: June 2021

Pages: 109

Price: US\$ 4,650.00 (Single User License)

ID: MD8904F75FDEN

## **Abstracts**

#### Report Scope

The scope of this report is broad and covers different types of MRCAS, along with the applications for medical robots and computer-assisted surgery for different kinds of treatment. The market is broken down by types of medical robotics, types of computer-assisted surgery, applications and regional markets. Revenue forecasts from 2019 to 2025 are given for each major type of medical robotics, computer-assisted surgery, application and regional market, and the estimated values are derived from the manufacturers' total revenues.

The report also includes a discussion of the major players across each of the regional MRCAS markets; it explains the major market drivers of the global MRCAS industry, current trends within the industry, major applications and the regional dynamics of the global MRCAS market.

The report concludes with a special focus on the vendor landscape, which includes detailed profiles of the major vendors in the global MRCAS industry.

#### Report Includes

42 tables

An up-to-date analysis of the global medical robotics and computer-assisted surgery (MRCAS) market

Analyses of the global market trends, with data from 2019, 2020, estimates for



2021, and projections of compound annual growth rates (CAGRs) through 2025

Estimation of market size and revenue forecast for global MRCAS market, and corresponding market share analysis by type, application (disease), and region for each market segment

Highlights of emerging technology trends, gaps and opportunities in the market estimating current and future demand for MRCAS, identification of the companies that are best positioned to meet this demand

In-depth information (facts and figures) concerning market drivers, restraints and other forces affecting the progress of this market

Identification of promising new surgical procedures and products still in the development and testing stages, and their probability of successful commercial launch within the next five years

Impact of COVID-19 on the medical robotics and computer-assisted surgery market as compared to overall global economy

Insight into the growth development strategies of major MRCAS manufacturers and their key competitive landscape

Descriptive company profiles of the leading market participants, including Medtech Global Ltd., Siemens AG, Zimmer Biomet Holding Inc., Titan Medical Inc., Panasonic Corp. and Hitachi Ltd.



### **Contents**

#### **CHAPTER 1 INTRODUCTION**

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Research Methodology
Geographic Breakdown
Analyst's Credentials
BCC Custom Research

**CHAPTER 2 SUMMARY AND HIGHLIGHTS** 

Related BCC Research Reports

**CHAPTER 3 OVERVIEW** 

**Medical Robotics** 

History of Medical Robotics and Computer-assisted Surgery

Surgical Imaging Technologies

Image Registration Techniques

Computer Image Processing

**Medical Robotics** 

Intelligent Operating Rooms

Surgical Simulation

Advantages and Disadvantages

Advantages

Disadvantages

Types of Medical Robotics

Noninvasive Radio Surgery Robots

Rehabilitation Robots

**Disinfection Robots** 

Laboratory Robots

Hospital and Pharmacy Automation

**Assistive Robots** 

Telemedicine Robots

Applications of Surgical Robotics and Computer-assisted Surgery

Orthopedic Surgery



Ear-Nose-Throat Surgery

Assistive and Rehabilitation Therapy/Prosthetic and Exoskeleton

Cardiac/Cardiothoracic Surgery

Gastrointestinal Surgery

Neurosurgery

**Urologic Surgery** 

Other Applications

Technologies and Products of Computer-assisted Surgery

Medical Robotics

Surgical Navigation Systems

Surgical Planners and Simulators

Intelligent Operating Rooms

Industry Structure and Competition

Global Market Leaders by Segment

Impact of COVID-19 on the Market for Medical Robotics and Computer-assisted Surgery

## CHAPTER 4 GLOBAL MARKET FOR MEDICAL ROBOTICS AND COMPUTER-ASSISTED SURGERY

Global Market for Medical Robotics by Type

Global Market for Surgical Robotics and Computer-assisted Surgery by Type

Surgical Navigation Systems by Component Technology

Intelligent Operating Rooms by Mode of Delivery

Surgical Simulators and Planners by Type

Global Market for Medical Robotics and Computer-assisted Surgery by Application

Global Market for Medical Robotics and Computer-assisted Surgery Applications by

Region

Global Market for Applications of Medical Robotics and Computer-assisted Surgery by Type

#### **CHAPTER 5 DRIVERS AND CHALLENGES**

Growth in Laparoscopic Surgery

**Bariatric Surgeries** 

Hysterectomy and Myomectomy Surgeries

Growth in Cardiac Surgery

Increasing Expenditures for Healthcare Industries



#### **CHAPTER 6 SUPPLIER LANDSCAPE AND COMPANY PROFILES**

AESCULAP INC.

AURIS HEALTH INC.

BIOBOT SURGICAL PTE LTD.

BOULDER INNOVATION GROUP INC.

**BRAINLAB AG** 

CAE HEALTHCARE

CORINDUS INC.

HITACHI LTD.

**HOCOMA AG** 

HONDA MOTOR CO., LTD.

IMRIS, DEERFIELD IMAGING

INTUITIVE SURGICAL INC.

KARL STORZ GMBH & CO. KG

KINAMED INC.

KINOVA ROBOTICS

KIRBY LESTER

MAXON MOTOR AG

MEDROBOTICS CORP.

MEDTECH GLOBAL LTD.

**MEDTRONIC** 

**MENTICE AB** 

OMNI LIFE SCIENCE INC.

**OSSUR** 

PANASONIC CORP.

SCHAERER MEDICAL USA INC.

SIEMENS AG

SIMBIONIX LTD.

**SIMQUEST** 

SIMULATED INANIMATE MODELS, LLC

**SMITH & NEPHEW PLC** 

**SONOWAND AS** 

STRYKER CORP.

SURGICAL SCIENCE SWEDEN AB

SWISSLOG HOLDING AG

THINK SURGICAL INC.

TITAN MEDICAL INC.

VIRTAMED AG



VOXEL-MAN
ZIMMER BIOMET HOLDINGS, INC.



### **List Of Tables**

#### LIST OF TABLES

Summary Table: Global Surgical Robotics and Computer-assisted Surgery Market, by

Type, Through 2025

Table 1: Surgical Robotics

Table 2: Image-Guided Surgical Navigation Systems

Table 3: Interventional Surgical Navigation Systems

Table 4: Standalone Surgical Planners and Simulators

Table 5: Intelligent Operating Room Solutions and Components

Table 6: Global Medical Robotics Market, by Type, Through 2025

Table 7: Global Surgical Robotics and Computer-assisted Surgery Market, by Type,

Through 2025

Table 8: Global Market for Surgical Navigation Systems, by Component Technology

Type, Through 2025

Table 9: Global Market for Intelligent Operating Rooms, by Mode of Delivery, Through 2025

Table 10: Global Market for Surgical Simulators and Planners, by Type, Through 2025

Table 11: Global Market for Medical Robotics and Computer-assisted Surgery, by

Application, Through 2025

Table 12: Global Market for Medical Robotics and Computer-assisted Surgery in

Orthopedic Applications, by Region, Through 2025

Table 13: Global Market for Medical Robotics and Computer-assisted Surgery in

Neurosurgical Applications, by Region, Through 2025

Table 14: Global Market for Medical Robotics and Computer-assisted Surgery in ENT

Applications, by Region, Through 2025

Table 15: Global Market for Medical Robotics and Computer-assisted Surgery in

Cardiac Applications, by Region, Through 2025

Table 16: Global Market for Medical Robotics and Computer-assisted Surgery in

Prosthetic Applications, by Region, Through 2025

Table 17: Global Market for Medical Robotics and Computer-assisted Surgery in

Gastrointestinal Applications, by Region, Through 2025

Table 18: Global Market for Medical Robotics and Computer-assisted Surgery in

Urology Applications, by Region, Through 2025

Table 19: Global Market for Medical Robotics and Computer-assisted Surgery in

Multipurpose/Other Applications, by Region, Through 2025

Table 20: Global Market for Medical Robotics and Computer-assisted Surgery in

Orthopedic Applications, by Type, Through 2025



Table 21: Global Market for Medical Robotics and Computer-assisted Surgery in Neurosurgical Applications, by Type, Through 2025

Table 22: Global Market for Medical Robotics and Computer-assisted Surgery in ENT Applications, by Type, Through 2025

Table 23: Global Market for Medical Robotics and Computer-assisted Surgery in Cardiac Applications, by Type, Through 2025

Table 24: Global Market for Medical Robotics and Computer-assisted Surgery in Prosthetic Applications, by Type, Through 2025

Table 25: Global Market for Medical Robotics and Computer-assisted Surgery in Gastrointestinal Applications, by Type, Through 2025

Table 26: Global Market for Medical Robotics and Computer-assisted Surgery in Urology Applications, by Type, Through 2025

Table 27: Global Market for Medical Robotics and Computer-assisted Surgery in Multipurpose/Other Applications, by Type, Through 2025

Table 28: Global Bariatric Surgeries, 2013-2016

Table 29: U.S. Bariatric Surgeries, 2011-2019

Table 30: Global Health Expenditures, 1995-2022

Table 31: Global Health Expenditures, by Country, 2015-2019

Table 32: Aesculap Inc.: Product Portfolio

Table 33: CAE Healthcare: Financial Performance, 2019 and 2020

Table 34: Hitachi Inc.: Financial Performance, 2018 and 2019

Table 35: Intuitive Surgical: Financial Performance, 2018-2020

Table 36: Medtech Global Ltd.: Financial Performance, 2017 and 2018

Table 37: Medtronic: Financial Performance, Through 2020

Table 38: Siemens AG: Financial Performance, 2019 and 2020

Table 39: Smith & Nephew: Financial Performance, Through 2020

Table 40: Stryker Corp.: Financial Performance, 2019 and 2020

Table 41: Zimmer Biomet Holdings Inc.: Financial Performance, Through 2020



# **List Of Figures**

#### LIST OF FIGURES

Summary Figure: Global Surgical Robotics and Computer-assisted Surgery Market, by Type, 2019-2025

Figure 1: Global Market Share of Major Medical Robotics and Computer-assisted Surgery Vendors, 2020

Figure 2: Global Market Share of Major Surgical Planners and Simulator Vendors, 2020

Figure 3: Global Market Share of Major Surgical Planners and Simulator Vendors, 2020

Figure 4: Global Market Share of Major Surgical Robotic Vendors, 2020

Figure 5: Global Market Share of Major Intelligent Operating Room Vendors, 2020

Figure 6: Global Medical Robotics Market Share, by Type, 2021

Figure 7: Global Surgical Robotics and Computer-assisted Surgery Market Share, by Type, 2021

Figure 8: Global Market Shares of Surgical Navigation Systems, by Component Technology Type, 2021

Figure 9: Global Market Shares of Intelligent Operating Rooms, by Mode of Delivery, 2021

Figure 10: Global Market Shares of Surgical Simulators and Planners, by Type, 2021

Figure 11: Global Market Shares of Medical Robotics and Computer-assisted Surgery, by Application, 2021

Figure 12: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Orthopedic Applications, by Region, 2021

Figure 13: Global Market Shares Medical Robotics and Computer-assisted Surgery in Neurosurgical Applications, by Region, 2021

Figure 14: Global Market Shares of Medical Robotics and Computer-assisted Surgery in ENT Applications, by Region, 2021

Figure 15: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Cardiac Applications, by Region, 2021

Figure 16: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Prosthetic Applications, by Region, 2021

Figure 17: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Gastrointestinal Applications, by Region, 2021

Figure 18: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Urology Applications, by Region, 2021

Figure 19: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Multipurpose/Other Applications, by Region, 2021

Figure 20: Global Market Shares of Medical Robotics and Computer-assisted Surgery in



Orthopedic Applications, by Type, 2021

Figure 21: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Neurosurgical Applications, by Type, 2021

Figure 22: Global Market Shares of Medical Robotics and Computer-assisted Surgery in ENT Applications, by Type, 2021

Figure 23: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Cardiac Applications, by Type, 2021

Figure 24: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Prosthetic Applications, by Type, 2021

Figure 25: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Gastrointestinal Applications, by Type, 2021

Figure 26: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Urology Applications, by Type, 2021

Figure 27: Global Market Shares of Medical Robotics and Computer-assisted Surgery in Multipurpose/Other Applications, by Type, 2021

Figure 28: Global Shares of Laparoscopic Surgeries, by Region/Country

Figure 29: Medtech Global Ltd.: Revenue Share, by Region, 2018

Figure 30: Medtronic: Revenue Share, by Business Segment, 2020

Figure 31: Medtronic: Revenue Share, by Region, 2020

Figure 32: Siemens AG: Revenue Share, by Business Segment, 2020

Figure 33: Siemens AG: Revenue Share, by Region, 2020

Figure 34: Smith & Nephew: Revenue Share, by Business Segment, 2020

Figure 35: Smith & Nephew: Revenue Share, by Region, 2020

Figure 36: Stryker Corp: Revenue Share, by Business Segment, 2020

Figure 37: Stryker Corp: Revenue Share, by Region, 2020

Figure 38: Zimmer Biomet Holdings Inc.: Revenue Share, by Business Segment, 2020

Figure 39: Zimmer Biomet Holdings Inc.: Revenue Share, by Region, 2020



# I would like to order

Product name: Medical Robotics and Computer-assisted Surgery: The Global Market

Product link: <a href="https://marketpublishers.com/r/MD8904F75FDEN.html">https://marketpublishers.com/r/MD8904F75FDEN.html</a>

Price: US\$ 4,650.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/MD8904F75FDEN.html">https://marketpublishers.com/r/MD8904F75FDEN.html</a>