Medical Robotic Systems Market Size, Market Share, Application Analysis, Regional Outlook, Growth Trends, Competitive Scenario And Forecasts, 2012 To 2020

Description:

Industry Insights

Rising penetration of automated or computerized surgical technologies such as nanorobots or telemedicine or bacteriobots for treating fatal diseases such as cancer is expected to boost market growth in coming six years. Other drivers of medical robotic systems market are advancement in technologies such as software or applications, capsule robot system, and imaging technology and increasing geriatric population as old age is considered as the highest risk factor for the development of disorders related to neurological, orthopedics and others.

The medical robotic systems are an evolving field which is designed to work with CT scan, MRI, ultrasound imaging and fluoroscopy. Introduction of technological advancements on the ground of dexterity, stability and precision is expected to serve medical robotic systems market as a high impact rendering driver. Other technological advances in the medical robotic systems include incorporation of magnetic resonance imaging and 3D ultrasound to facilitate real-time imaging for efficient procedure planning and easy future reference. The growing use of da Vinci surgical system for complex surgeries using a minimally invasive approach is expected to serve this market as a driver by catering to users in healthcare facilities. The introduction of cheaper and smaller SPORT medical robotic systems by Titan Medical and growing market penetration rates of advanced technologies such as lightweight robotics for medical applications to assist in surgical operations is also likely to boost market growth during the forecast period. There are several opportunities for in-vivo robotics in the area of medicine that are commercialized and a new revolution is brought about in the medical field. Researchers are trying to develop nanorobots for treating cancer as well as for noninvasive surgeries at the cellular level on patients with tumors.

Segment Insights

Medical robotic systems segment market consists of non-invasive surgery robots, surgical robots, rehabilitation robots and hospital/pharmacy robots. Surgical robots dominated the overall market in 2013 owing to presence of an extensive portfolio of FDA and CE approved products coupled with high usage rates is one of the primary drivers of this market. The rapid growth in surgical robotics is driven by a combination of advancement in medical robotic systems imaging such as 3D ultrasound, higher resolution, magnetic resonance imaging and technological improvements like control theory and acceptance of both laparoscopic procedures and robotic assistance. Surgical medical robotic systems include laparoscopy systems, orthopedic surgical robots, steerable robotic catheters and neurological surgical systems.

Application Insight

Application segment of medical robotic systems market includes orthopedics, Neurology, laparoscopy and special education. Laparoscopy is considered as one of the largest segments with share over 35% in 2013 due to growing demand for minimally invasive surgeries. Laparoscopy helps in reducing pain which in turn reduces morbidity along with hospital stay duration of the patient in comparison with conventional open surgeries. Laparoscopic robotic systems perform a wide range of surgical procedures with an established efficiency which has resulted in increased number of surgical procedures performed with the use of these systems. Robotic-assisted laparoscopic surgery is a relatively new field of gynecologic surgery.

Regional Insights

North America dominated the overall medical robotic systems market in 2013 owing to presence of sophisticated healthcare infrastructure, high healthcare expenditure and patient awareness levels coupled with higher market penetration rates of healthcare IT system are some drivers of this market. Asia Pacific is considered as the fastest growing regional market in the coming six years on accounts of rising healthcare investment, rapid development in rural healthcare services disposable income levels and the presence of high unmet medical needs and are some factors attributing to the rapid growth for medical robotic systems.
market in this region. In addition, growing geriatric population base, changing lifestyle of people, increasing awareness about system and growth in number of hospitals are also responsible to accelerate growth rate in Asia Pacific countries.

Contents:
Table of Contents

Chapter 1. Executive Summary
1.1. Medical Robotic Systems – Industry Summary and Critical Success Factors (CSFs)

Chapter 2. Medical Robotic Systems Industry Outlook
2.1. Market Segmentation
2.2. Market Size and Growth Prospects
2.3. Medical Robotic Systems Market Dynamics
2.3.1. Market Driver Analysis
2.3.2. Market Restraint Analysis
2.4. Key Opportunities Prioritized
2.5. Industry Analysis – Porter’s
2.6. Medical Robotic Systems – Company Market Share Analysis
2.7. Medical Robotic Systems Market PESTEL Analysis, 2012

Chapter 3. Medical Robotic Systems Product Outlook
3.1. Surgical Robot
3.2. Rehabilitation Robots
3.2.1. Rehabilitation Robots Market Estimates and Forecasts, 2012 – 2020 (USD Million)
3.2.2. Assistive Robots Market Estimates and Forecasts, 2012 – 2020 (USD Million)
3.2.3. Prosthetics Market Estimates and Forecasts, 2012 – 2020 (USD Million)
3.2.4. Orthotics Market Estimates and Forecasts, 2012 – 2020 (USD Million)
3.2.5. Therapeutic Robots Market Estimates and Forecasts, 2012 – 2020 (USD Million)
3.3. Noninvasive Radiosurgery Robots
3.3.1. Noninvasive Radiosurgery Robots Market Estimates and Forecasts, 2012 – 2020 (USD Million)
3.3.2. TrueBeam STx radiosurgery system Market Estimates and Forecasts, 2012 – 2020 (USD Million)

3.3.3. CyberKnife robotic radiosurgery system Market Estimates and Forecasts, 2012 – 2020 (USD Million)

3.4. Hospital and Pharmacy Robots

3.4.1. Hospital and Pharmacy Robots Market Estimates and Forecasts, 2012 – 2020 (USD Million)

3.4.2. Telemedicine Robots Market Estimates and Forecasts, 2012 – 2020 (USD Million)

3.4.3. V. Robots Market Estimates and Forecasts, 2012 – 2020 (USD Million)

3.4.4. Pharmacy Robots Market Estimates and Forecasts, 2012 – 2020 (USD Million)

3.4.5. Cart Transportation Robots Market Estimates and Forecasts, 2012 – 2020 (USD Million)

3.5. Emergency response robotic systems

3.5.1. LS-1 robotic system Market Estimates and Forecasts, 2012 – 2020 (USD Million)


Chapter 4. Medical Robotic Systems Application Outlook

4.1. Neurology


4.2. Orthopedics


4.3. Laparoscopy

4.3.1. Laparoscopy Application Market Estimates and Forecasts, 2012 – 2020 (USD Million)

4.4. Special Education


Chapter 5. Medical Robotic Systems Regional Outlook

5.1. North America


5.2. Europe


5.3. Asia Pacific


5.3.2. Market Estimates and Forecasts, by Application, 2012 – 2020 (USD Million)

5.4. RoW


Chapter 6. Competitive Landscape

6.1. Revenue Analysis

6.2. Product Benchmarking

6.3. Strategic Development

Chapter 7. Methodology and Scope

7.1. Research Methodology

7.2. Research Scope & Assumption

7.3. List of Data Sources

Companies analyzed in competitive landscape

iRobot Corporation
Medrobotics Corporation
Titan Medical Inc.
Hansen Medical, Inc.
Renishaw Plc
Health Robotics S.R.L
Or Productivity Plc
Intuitive Surgical Inc.
Mazor Robotics Ltd.
Accuray Inc.
Mako Surgical Corp.
Varian Medical Systems
Stereotaxis, Inc.

List of Tables

1. Medical Robotic Systems– Industry summary & Critical Success Factors (CSFs)
2. Global Medical Robotic Systems revenue, 2012 – 2020
5. Global Surgical Robots market, 2012 to 2020 (USD million)
6. Global Orthopedic Surgical Robots market, 2012 to 2020 (USD million)
9. Global Steerable Robotic Catheters market, 2012 to 2020 (USD million)
10. Global Rehabilitation Robots market, 2012 to 2020 (USD million)
12. Global Prosthetics market, 2012 to 2020 (USD million)
14. Global Therapeutic Robots market, 2012 to 2020 (USD million)
17. Global Hospital and Pharmacy Robots market, 2012 to 2020 (USD million)
18. Global Telemedicine Robots market, 2012 to 2020 (USD million)
20. Global Pharmacy Robots market, 2012 to 2020 (USD million)
23. Global Medical Robotic Systems for Orthopedics market, 2012 to 2020 (USD million)
25. Global Medical Robotic System for Special Education market, 2012 to 2020 (USD million)
29. Europe Medical Robotic Systems demand, by segments, (USD million), 2012 – 2020
30. Europe Medical Robotic Systems demand, by applications, (USD million), 2012 – 2020
31. Asia Pacific Medical Robotic Systems demand, by segments, (USD million), 2012 – 2020
32. Asia Pacific Medical Robotic Systems demand, by applications, (USD million), 2012 – 2020
33. RoW Medical Robotic Systems demand, by segments, (USD million), 2012 – 2020
34. RoW Medical Robotic Systems demand, by applications, (USD million), 2012 – 2020
35. Global Medical Robotic Systems Market – Competitive Landscape

List of Figures

1. Medical Robotic Systems Market Segmentation
2. Global Medical Robotic Systems Market Revenue, 2012 – 2020
3. Medical Robotic Systems Market Dynamics
5. Key Opportunities Prioritized
6. Industry Analysis – Porter’s
7. Medical Robotic Systems PESTEL Analysis, 2012
9. Global Surgical Robots market, by region, (USD million), 2012 – 2020
17. Global Orthotics market, by region, (USD million), 2012 – 2020
18. Global Therapeutic Robots market, by region, (USD million), 2012 – 2020
27. Global Medical Robotic Systems for Orthopedics market, by region, (USD million), 2012 – 2020
29. Global Medical Robotic Systems for Special Education market, by region, (USD million), 2012 – 2020
31. Medical Robotic Systems market – company market share analysis, 2013 (%)

Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Medical Robotic Systems Market Size, Market Share, Application Analysis, Regional Outlook, Growth Trends, Competitive Scenario And Forecasts, 2012 To 2020
Web Address: http://www.researchandmarkets.com/reports/3067722/
Office Code: SCH3X2U3

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 4700</td>
</tr>
<tr>
<td>Hard Copy:</td>
<td>USD 6500 + USD 58 Shipping/Handling</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>USD 8000</td>
</tr>
<tr>
<td>Electronic (PDF) - Entprisewide:</td>
<td>USD 10500</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
First Name: ___________________________________________ Last Name: ___________________________________________
Email Address: * _______________________________________
Job Title: ___________________________________________
Organisation: _________________________________________
Address: ____________________________________________
City: _________________________________________________
Postal / Zip Code: ____________________________________
Country: _____________________________________________
Phone Number: _______________________________________
Fax Number: __________________________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:
Marketing Code:

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World