

Global Medical Robotic Systems Market is Expected to Reach USD 13.64 Billion by 2018: Transparency Market Research

PR Newswire

ALBANY, New York, April 17, 2013 /PRNewswire/ -- According to a new market report published by Transparency Market Research (<http://www.transparencymarketresearch.com> [1]) "Medical Robotic Systems Market (Surgical Robots, Non-Invasive Radiosurgery Robotic Systems, Prosthetics and Exoskeletons, Assistive and Rehabilitation Robots, Non-Medical Robotics in Hospitals and Emergency Response Robotic Systems) - Global Industry Analysis, Size, Share, Growth, Trends and Forecast, 2012 - 2018," the global medical robotic systems market was worth USD 5.48 billion in 2011 and is expected to reach USD 13.64 billion in 2018, growing at a CAGR of 12.6% from 2012 to 2018. The surgical robots segment is expected to enjoy the largest revenue share in the given period of forecast.

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The major markets analyzed in the report are surgical robots, non-invasive radiosurgery robotic systems, robotic prosthetics and exoskeletons, assistive and rehabilitation robots, non-medical robotics in hospitals and emergency response robotic systems. All these segments hold high growth potential in the global market. The global market for medical robotic systems is driven by factors such as technological advancement in the automation of the healthcare industry, increase in elderly population and high prevalence of motion-restricting medical conditions. On the other hand, the high cost of medical robots is at present a prime factor which is holding back their demand, especially in the developing markets.

Surgical robots form the largest segment which was worth USD 3.77 billion in 2011 and is expected to reach USD 8.47 billion in 2018, growing at a CAGR of 11.5% from 2012 to 2018. Prime surgical robots such as the da Vinci robotic system are pioneers in this market segment. However, the high cost of this system and introduction of cheaper robotic laparoscopy surgery solutions such as Telelap ALF-X system may turn out to be a major competition for this segment in the future.

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Rapid growth is expected in other segments such as non-medical robots in hospitals and assistive and rehabilitation systems. The non-medical robots in hospitals comprise a wide range of robots such as telemedicine robots, cart transportation robots and robotic hospital pharmacy systems. At present, thousands of hospitals in the U.S. and Europe have integrated transportation robots in their operation systems. It is believed that incorporation of automation in day-to-day non-critical tasks in hospitals would result in saving human labor and also ultimately lower healthcare costs.

Geographically, the overall medical robotic systems market is led by North America followed by Europe. High awareness about the technological advancement in healthcare both among healthcare providers and the general population is the prime factor which contributes to the market leadership of these regions. However, with the improvement in healthcare infrastructure and simultaneous growth in healthcare expenditure will result into growth in demand for medical robots in the emerging markets such as Asia-Pacific, Middle-East and Africa.

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Some of the key players in this market include Intuitive Surgical, Inc., MAKO Surgical, iRobot Corporation, Hansen Medical, and Accuray, Inc. Rapid innovation in robotic technology in healthcare and increase in demand for automation of healthcare services will lead to introduction of more market players in the future. Some of the other important players in this market are Swisslog Holding Ltd., Varian Medical Systems, McKesson Corporation, Renishaw plc, Stereotaxis, Inc. and others.

This research is designed to study and forecast the demand and market performance of major medical robotic systems in the global market. The research incorporates in-depth analysis of device manufacturers, product sales and segment-wise trend analysis. The report analyzes the product segments extensively and

offers detailed analysis with their historical data and statistical forecast. The global medical robotic systems market is segmented as follows:

Global medical robotic systems market, by segments

Surgical Robots

- **Orthopedic Robotic Systems**
 - **Robodoc surgical system**
 - **MAKO RIO surgical system**
 - **iBlock surgical system**
 - **Navio PFS surgical system**
 - **Stanmore Sculptor surgical system**
- **Neurosurgery robotic systems**
 - **NeuroMate surgical system**
 - **Pathfinder surgical system**
 - **Renaissance surgical system**
- **General laparoscopy robotic systems**
 - **Da Vinci robotic surgery system**
 - **FreeHand endoscope holder system**
 - **Telelap ALF-X surgical system**
- **Noncatheter percutaneous robotic systems**
 - **InnoMotion robot arm system**
- **Steerable catheters**
 - **Sensei X robotic catheter system**
 - **Niobe remote magnetic navigation systems**

Non-invasive Radiosurgery Robotic Systems

- **CyberKnife robotic radiosurgery system**
- **TrueBeam STx radiosurgery system**
- **Gamma Knife Perfexion radiosurgery system**

Emergency response robotic systems

- **AutoPulse Plus robotic system**
- **LS-1 robotic system**
- **Others**

Prosthetics/Exoskeletons

- **Rheo - knee prosthetic**
- **C-leg - knee prosthetic**
- **i-limb ultrahand - hand prosthetic**
- **ReWalk - walking assistance exoskeleton**

Assistive and rehabilitation systems

- Handy 1 assistive robot
- iARM - robotic arm
- Mobility System - muscle re-education device
- Lokomat rehabilitation system

Non-medical robotics in hospitals

- Telemedicine robots
- Cart transportation robots
- Robotic hospital pharmacy

Global medical robotic systems market, by geography

North-America

Europe

Asia-Pacific

Rest of the World (RoW)

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