
**Description:** Worldwide surgical robot markets are poised to achieve significant growth as next generation systems provide a way to improve traditional open surgery and decrease the number of ports needed for minimally invasive surgery.

The automated process revolution in surgery and communications is being implemented via robots. Robots automation of systems is providing significant improvement in the accuracy of surgery and the repeatability of process.

Existing open surgery can be replaced in large part by robotic minimally invasive surgery (MIS). Minimally invasive robotic surgery, new robotic radiation treatment, and emerging robotic surgical approaches complement existing surgery techniques. Soon, all surgery will be undertaken with at least some aspects of robotic surgery replacing or complementing open surgery.

During a robot assisted surgical procedure, the patient-side cart is positioned next to the operating table with the electromechanical arms arranged to provide access to the initial ports selected by the surgeon. Metal tubes attached to the arms are inserted through the ports, and the cutting and visualization instruments are introduced through the tubes into the patient's body.

The surgeon performs the procedure while sitting at a console, manipulating the instrument controls and viewing the operation through a vision system. When a surgeon needs to change an instrument the instrument is withdrawn from the surgical field using the controls at the console. This is done many times during an operation.

The companies that get an early foothold in the market have significant strategic advantage. The robotic surgical technique benefits hospitals by reducing the length of patient stays, thereby enabling better cost management. This factor is driving demand for surgery robot systems. Since robotics provide surgeons with a precise, repeatable and controlled ability to perform procedures in tight spaces, they are increasingly in demand.

The aging US population has supported demand, since the occurrence of health issues that require medical devices is higher in the elderly population. Buoyed by strong demand and sales, industry profit margins have increased considerably during the past five years.

Hospitals are adopting robotic surgical devices to improve their outcomes numbers. Hospitals are measured on outcomes, robots for surgery, when used by a trained physician are improving outcomes significantly.

Hundreds of universities worldwide have research programs in robotics and many are awarding degrees in robotics. These “roboticists” are increasingly being hired by Global 2000 organizations to link mobile robots (mobile computers) into existing IT systems.

Compared with other minimally invasive surgery approaches, robot-assisted surgery gives the surgeon better control over the surgical instruments and a better view of the surgical site. Surgeons no longer have to stand throughout the surgery and do not tire as quickly. Hand tremors are filtered out by the robot's computer software. The surgical robot can continuously be used by rotating surgery teams.

Surgical robot device markets at $3.2 billion in 2012 are anticipated to reach $19.96 billion by 2019 as next generation devices, systems, and instruments are introduced to manage surgery through small ports in the body instead of large open wounds.

**Contents:**
- Surgical Robot Executive Summary
- Surgical Robot Market Driving Forces
- Robotics Market Driving Forces
- Healthcare Robotics Enabling Technology
1. Surgical Robots Market Description and Market Dynamics
   1.1 Robotic Surgical System
       1.1.1 Market Strategy for the Robotic Surgical System
       1.1.2 Focus on Key Institutions
   1.2 Focus on Leading Surgeons to Drive Rapid and Broad Adoption
       1.2.1 Maintain Market Leadership
       1.2.2 Develop Industry Alliances
       1.2.3 Increasing Patient Awareness
   1.3 Clinical Applications For Technology
   1.4 Elder Assistance Robot Market Strategy
   1.5 Medical / Surgical Delivery Robots
       1.5.1 Assistive Technology
   1.6 Rehabilitation Robots
   1.7 Neuroscience Unveiling The Basic Mechanisms Of Neurogenesis And Neuroplasticity
       1.7.1 Neuro-Developmental Engineering
       1.7.2 Intelligent Rehabilitation
       1.7.3 Bilateral and Unilateral ADL-Focused Robot Therapies
       1.7.4 Robotic Rehabilitation Assistive Technology
       1.7.5 Robots, Aged Care, And Emotional Bonding With Machines
       1.7.6 InTouch Health Remote Presence
       1.7.7 InTouch Platforms Integrate Seamlessly With da Vinci Systems
       1.7.8 In Touch Health Remote Presence RP-7s Robot Doctors
   1.8 Educational Robots For Children in Hospitals
   1.9 Hospital Robots
       1.10 Mechanized Couriers
       1.10.1 Man vs. Machine: Robots at Japanese Hospital

2. Surgical Robot Market Shares and Forecasts
   2.1 Surgical Robot Market Driving Forces
       2.1.1 Robotics Market Driving Forces
       2.1.2 Healthcare Robotics Enabling Technology
       2.1.3 Robotic-Assisted Minimally Invasive Surgery Market Driving Forces
   2.2 Robotic-Assisted Minimally Invasive Surgery Market Shares
       2.2.1 Robotic-Assisted Minimally Invasive Surgery Market Shares
       2.2.2 Intuitive Surgical Robotics da Vinci® Surgical System
       2.2.3 Intuitive Surgical
       2.2.4 Intuitive Surgical da Vinci Surgical System U.S. Procedures
       2.2.5 Hansen Medical
       2.2.6 Curexo Robodoc
       2.2.7 iRobot and InTouch Health
       2.2.8 MAKO Surgical
       2.2.9 Accuray Surgical
       2.2.10 Accuray Q3 FY 2012 Results
       2.2.11 Restoration Robotics
       2.2.12 Titan Robot
       2.2.13 Titan Robot Partners
   2.3 Robotic Surgery Equipment Market Forecasts
       2.3.1 Surgical Robot Systems Forecasts
       2.3.2 Surgical Robot Disposable Instruments Forecasts
       2.3.3 Surgical Robot Systems vs. Disposable Instruments Forecasts
       2.3.4 Surgical Robot Market Segment Forecasts
       2.3.5 Robotic Surgery Market Opportunity
       2.3.6 Robotic Surgery Equipment
   2.4 Medical Robotic Surgery Challenges
   2.5 Surgical Robot Applications
       2.5.1 Urology
       2.5.2 Gynecology
       2.5.3 General Surgery
2.5.4 Cardiac
2.5.5 Head and Neck Surgery
2.5.6 US Target Procedures:
2.5.7 Intuitive Surgical da Vinci Surgical System Procedure Volume
2.5.8 Reported Clinical Benefits of da Vinci® hysterectomy Procedures for Benign Conditions
2.5.9 Robotic Surgery ENT Opportunity
2.5.10 General Surgery Robot Market Opportunities
2.6 Robotic Surgery Equipment Prices
2.6.1 Intuitive Surgical da Vinci Surgical System Prices
2.6.2 Accuray
2.7 Robotic Surgery Equipment Regional Market Segments
2.7.1 Intuitive Surgical Regional Revenue
2.7.2 Intuitive Surgical US Installations
2.7.3 Intuitive Surgical European Demand
2.7.4 Intuitive Surgical in Japan
2.7.5 Next Generation Robotic Surgery Becomes Worldwide
2.8 Total Number Of Surgical Procedures And Market Penetration of Surgical Robots
2.8.1 Hair Loss Robotic Surgery

3. Surgical Robots Product Description
3.1 Intuitive Surgical da Vinci Surgical System
3.1.1 Intuitive Surgical da Vinci Surgical System Components
3.1.2 Intuitive Surgical Patient-Side Cart and Electromechanical Surgical Arms
3.1.3 Intuitive Surgical 3-D Vision System
3.1.4 Intuitive Surgical Firefly Fluorescence Imaging
3.1.5 Intuitive Surgical da Vinci Skills Simulator
3.1.6 Intuitive Surgical Instruments and Accessories
3.1.7 Intuitive Surgical da Vinci Single-Site
3.1.8 Intuitive Surgical EndoWrist One Vessel Sealer
3.1.9 Intuitive Surgical Accessory Products
3.1.10 Intuitive Surgical Da Vinci Minimally Invasive Surgical Product
3.1.11 Intuitive Surgical Cardiac Surgery
3.2 Medrobotics Technoloy
3.2.1 Medrobotics Medical Devices for Minimally Invasive Surgery
3.2.2 Medrobotics Flexible Robot Platform
3.2.3 Medrobotics Snakelike Robots for Heart Surgery
3.2.4 Medrobotics Cardiac Surgery Snake Robot
3.2.5 Minimally Invasive Surgery Positioning:
3.3 Accuray CyberKnife M6 Series
3.3.1 Accuray CyberKnife M6 FIM System
3.3.2 Accuray / CyberKnife VSI System
3.3.3 Accuray / TomoTherapy System
3.3.4 Accuray CyberKnife G4 System
3.4 OR Productivity Prosurgics Freehand
3.4.1 OR Productivity Prosurgics FreeHand Robotic Value and Challenges
3.4.2 OR Productivity Prosurgics FreeHand Disposable Supplies
3.4.3 OR Productivity Prosurgics FreeHand Robotic Camera Controller for MIS
3.4.4 OR Productivity Prosurgics FreeHand 1.0
3.5 Restoration Robotics ARTAS Robotic System
3.5.1 Restoration Robotics Strengths and Challenges
3.6 Curex Technology
3.6.1 Curex ROBODOC Hip Or Knee Joint Surgical System
3.6.2 Curex ROBODOC Hip Or Knee Joint Surgical System
3.6.3 Curex Technology Numerous Independent Clinical Studies
3.6.4 Curex Technology Robodoc Surgical System
3.6.5 OR Productivity Prosurgics FreeHand 1.0
3.6.6 Curex Technology Robodoc Surgical System Extensive Clinical Studies
3.6.7 Curex ROBODOC® Surgical Assistant Strengths and Challenges
3.6.8 Curex Robodoc
3.7 Hansen Medical Magellan™ Robotic System
3.7.1 Hansen Medical Magellan Robotic System
3.7.2 Magellan™ Robotic System Benefits
3.7.3 Hansen Medical Magellan Robotic System
3.7.4 Hansen Medical Magellan Robotic Catheter Intravascular Navigation
3.7.5 Hansen Sensei® X Robotic Catheter System
3.7.6 Hansen Advanced Robotic Solution for Arrhythmias
3.7.7 Hansen Medical Sensei X Robotic System
3.8 InTouch Health/iRobot RP-Vantage Surgical Procedure Consult Robot
3.8.1 iRobot / InTouch Health RP-Vita Acute Care Robot
3.8.2 InTouch Health/iRobot RP-Lite
3.8.3 InTouch Health/iRobot RP-Xpress
3.8.4 InTouch Health/iRobot AVA
3.9 MAKO Surgical
3.9.1 MAKO Surgical RIO Robotic Arm
3.10 Titan Medical Surgical Robotic System
3.10.1 Titan Robotic Single Incision Platform:
3.10.2 Titan Medical Amadeus Robotic Surgical System
3.11 Vecna Robotics QC Bot®
3.11.1 Vecna Robotics VGo
3.12 Georgia Tech Healthcare Robotics Lab PR2
3.12.1 Healthcare Robotics Lab Interdisciplinary Team
3.12.2 Healthcare Robotics Lab EL-E
3.12.3 Healthcare Robotics Lab EL-E Assistive Robot
3.12.4 Healthcare Robotics Lab Robotic Nurse Assistant
3.12.5 Georgia Tech HealthCare Robotics Dusty
3.12.6 HealthCare Robotics / iRobot
3.13 Corindus
3.13.1 Corindus Command. Control CorPath® 200 System
3.13.2 Corindus Standard in Precision PCI.
3.14 Motion Computing Motion C5v Tablet
4. Medical Robot Technology
4.1 Robotic Surgical Clinical Applications
4.1.1 Surgical Procedures
4.1.2 U.S. Robotic Surgical Procedures
4.1.3 Robotic Urologic Prostatectomy Surgery
4.1.4 Robotic Gynecologic Surgery
4.1.5 Robotic Myomectomy
4.1.6 Robotic Cardiothoracic Surgery
4.1.7 Robotic Internal Thoracic Artery Dissection
4.1.8 Robotic Thoracoscopy
4.1.9 Robotic Coronary Artery Bypass
4.1.10 Robotic General Surgery
4.2 AI Robot
4.2.1 Korea Focusing On Creating A Growth Engine In Research & Development
4.3 Care-O-bot Robot Mechanics
4.3.1 Care-O-bot Architecture
4.4 Government Regulation
4.4.1 California Regulation
4.4.2 International Regulation
4.5 Third Party Reimbursement
5. Surgical Robots Company Description
5.1 Accuray
5.1.1 Accuray Products
5.1.2 Accuray CyberKnife System
5.1.3 Accuray Strategy
5.1.4 Accuray International Presence
5.1.5 Accuray Competition
5.1.6 Accuray Revenue
5.1.7 Accuray Installed Base
5.1.8 New Data Validates CyberKnife SBRT for Prostate Cancer Treatment
5.2 Corindus
5.2.1 FDA Clears Corindus Robotic-Assisted System For Coronary Artery Disease Stent
5.3 Curexo Technology Corporation
5.3.1 Curexo Technology Virtual Model Of a Patient Joint
5.3.2 Curexo’s Next-Generation Robodoc® Assists In Surgery
5.4 Freehand 2010
5.4.1 Freehand 2010 / Prosurgics
5.5 Hansen Medical
5.5.1 Hansen Medical Sensei System
5.5.2 Hansen Medical Magellan Robotic System
5.5.3 Hansen Medical Competition
5.5.4 Hansen Medical Revenue
5.5.5 Hansen Medical Business
5.5.6 Accuray 2013 First Quarter Financial Results
5.6 Healthcare Robotics Lab
5.7 Intuitive Surgical
5.7.1 Intuitive Surgical Robotics da Vinci® Surgical System
5.7.2 Intuitive Surgical Business Strategy
5.7.3 Intuitive Surgical Products
5.7.4 Intuitive Surgical Patient Value As Equal To Procedure Efficacy / Invasiveness
5.7.5 Intuitive Surgical Business Model
5.7.6 Intuitive Surgical Revenue
5.7.7 Intuitive Surgical Regulatory Activities
5.7.8 Intuitive Surgical Economic Environment.
5.7.9 Intuitive Surgical da Vinci Si Surgical System Market Acceptance
5.7.10 Intuitive Surgical Technology and Acquisitions
5.8 iRobot
5.8.1 iRobot Strategy
5.8.2 iRobot Home Floor Cleaning Robots
5.8.3 iRobot Scooba Major Consumer Product Line
5.8.4 iRobot Pool Cleaning Robots
5.8.5 iRobot Gutter Cleaning Robot
5.8.6 iRobot Programmable Robot
5.8.7 iRobot Home Robots
5.8.8 iRobot Government and Industrial Robots
5.8.9 iRobot Locations
5.8.10 iRobot Military Programs
5.8.11 iRobot Significant Customers
5.8.12 iRobot Description
5.8.13 iRobot Industry Segment, Geographic Information and Significant Customers
5.8.14 iRobot Home Robots
5.8.15 iRobot Government and Industrial
5.8.16 iRobot Strategy
5.8.17 iRobot Government and Industrial Products
5.8.18 iRobot Government & Industrial Robots
5.8.19 iRobot Partners and Strategic Alliance
5.8.20 iRobot / Boeing Company
5.8.21 iRobot / Advanced Scientific Concepts
5.8.22 iRobot / TASER International
5.8.23 iRobot's Hospital Robots Begin Their Residency
5.9 InTouch Health
5.10 MAKO Surgical
5.10.1 Mako Surgical Business
5.10.2 Mako Products
5.10.3 Mako Surgical Strategy
5.10.4 Mako Surgical Revenue
5.11 Medrobotics
5.11.1 Medrobotics Closes On $10 Million Financing From Hercules
5.11.2 Medrobotics Several Generations Of Snake Robot Platforms
5.11.3 Medrobotics Advances Clinical Development of Snake Robot for Surgery
5.11.4 Medrobotics Positioning
5.11.5 Medrobotics Cardiac Surgery Gold Standard
5.11.6 Medrobotics Snake Robot Technologies For Use In A Wide Range Of Surgical And Interventional Applications
5.11.7 Medrobotics Technology & Research Center
5.12 Otto Bock HealthCare
5.13 Restoration Robotics
5.13.1 ARTAS Technology Series: Patient Movement Compensation
5.14 Titan Medical
5.15 UC Berkeley
5.16 Vecna Robotics

List of Tables and Figures

Table ES-1 Robotics Market Driving Forces
Table ES-2 Healthcare Robotics Enabling Technologies
Table ES-3 Robotic-Assisted Minimally Invasive Surgery Market Driving Forces
Table ES-4 Types Of Procedures Performed Using Robotic Surgical System
Figure ES-5 Medical Surgical Robots Market Shares, Shipments, Dollars, Worldwide 2012
Table ES-6 Surgical Robot Forecasts Dollars, Worldwide, 2013-2019
Figure 1-1 Titan Medical Multi Articulating Arms
Figure 1-2 Instruments That Support Multiple Approach Paths To A Surgical Target
Figure 1-3 Robotic Surgery Improved Visualization Features
Table 1-4 Robotic Surgical Specialties Procedure Marketing Efforts Focus
Table 2-1 Robotics Market Driving Forces
Table 2-2 Healthcare Robotics Enabling Technologies
Table 2-3 Robotic-Assisted Minimally Invasive Surgery Market Driving Forces
Table 2-4 Types Of Procedures Performed Using Robotic Surgical System
Figure 2-5 Medical Surgical Robots Market Shares, Shipments, Dollars, Worldwide 2012
Table 2-6 Medical Surgical Robots Market Shares, Dollars, Worldwide, 2012
Table 2-7 Medical Surgical Robots Units and Installed Base, Units, Worldwide, 2012
Figure 2-8 Intuitive Surgical da Vinci Surgical System Worldwide Procedures
Figure 2-9 Intuitive Surgical da Vinci Surgical System Worldwide Installed Base
Table 2-10 Hansen Medical Sensei® X Robotic Catheter System
Figure 2-11 Curexio Robodoc
Figure 2-12 Titan Medical Novel robotic platform for Single Port Access Surgery
Figure 2-13 Titan Medical Amadeus Composer Surgical System
Table 2-14 Surgical Robot Forecasts Dollars, Worldwide, 2013-2019
Table 2-15 Surgical Robot Forecasts Dollars, Worldwide, 2013-2019
Table 2-16 Surgical Robot Market Segment Forecasts Dollars and Units, Worldwide, 2013-2019
Figure 2-17 Surgical Robot Systems Forecasts, Dollars, Worldwide, 2013-2019
Figure 2-18 Surgical Robot Disposable Instruments Forecasts, Dollars, Worldwide, 2013-2019
Figure 2-19 Surgical Robot Systems vs. Instruments Forecasts, Dollars, Worldwide, 2013-2019
Table 2-20 Surgical Robot Market Segment Forecasts Dollars and Units, Worldwide, 2013-2019
Table 2-21 Benefits of Robotic Surgery For The Surgeon
Table 2-22 Benefits of Robotic Surgery For The Patient
Table 2-23 Benefits of Robotic Surgery For The Hospital
Figure 2-24 Titan Medical Robotic Surgery Target Opportunity
Figure 2-25 Titan Medical Robotic Surgery Opportunity Analysis
Table 2-26 Challenges of Open Surgery and Minimally Invasive Surgery
Table 2-27 Challenges of Developing Medical Robotic Surgery Systems
Table 2-28 Surgical Robotic Product Development Challenges
Figure 2-29 Intuitive Surgical Prostatectomy Procedure Growth
Figure 2-30 Intuitive Surgical Prostatectomy Procedure Growth
Figure 2-31 Intuitive Surgical Hysterectomy Procedure Growth
Figure 2-32 Intuitive Surgical Hysterectomy Market Potential
Figure 2-33 Titan Medical Describes Surgical Robot ENT Market Potential
Figure 2-34 Titan Medical Describes Robotic General Surgery Market Potential
Figure 2-35 Surgical Robot Recurring Revenue Model
Figure 2-36 Surgical Robot Regional Market Segments, Dollars, 2012
Figure 2-37 Surgical Robot Regional Market Segments, 2012
Figure 2-38 Intuitive Surgical US Installations by State
Figure 2-39 Intuitive Surgical Installs by Country and Region
Table 2-40 Total Number Of Surgical Procedures Performed In Us:
Table 2-41 Total Number Of Surgical Procedures Performed Worldwide:
Table 2-42 US and Worldwide Robotic Surgery Target Procedures:
Table 2-43 Actual Intuitive Surgical Surgeries: Prostate
Table 2-44 Actual Intuitive Surgical Surgeries: Hysterectomy
Table 2-45 Titan Medical Target Robotic Surgeries, Worldwide
Table 2-46 Robotic Surgeries Possible by Medical Condition
Table 2-47 Surgical Robot Installed Base and Market Penetration Analysis Forecasts By Procedure Type
   Dollars and Units, Worldwide, 2012-2018
Table 2-48 Surgical Robot Disposable Instruments and Market Penetration Analysis Forecasts By Procedure Type
   Dollars and Units, Worldwide, 2012-2018
Figure 3-1 Intuitive Surgical da Vinci Surgical System
Table 3-2 Intuitive Surgical da Vinci Surgical System Features
Figure 3-3 Intuitive Surgical Da Vinci Surgery
Table 3-4 Intuitive Surgical Da Vinci Surgical System Components
Table 3-5 Minimally Invasive Da Vinci Surgery Benefits To Cardiac Patients
Figure 3-6 Intuitive Surgical da Vinci System State-Of-The-Art Robotic Surgical Platform
Table 3-7 Intuitive Surgical da Vinci Si Surgical System Core Benefits:
Figure 3-8 Intuitive Surgical da Vinci Si Surgical System Dual Console Used For Training And Collaboration
Figure 3-9 Intuitive Surgical da Vinci Surgical System, Surgeon Operates Seated Comfortably At A Console
Figure 3-10 Intuitive Surgical da Vinci Surgical System Patient Side Cart
Table 3-11 Medrobotics Medical Field Target Markets
Figure 3-12 Federal Reserve Chairman Ben Bernanke Looking At Snaking Robot Camera Made by Cardiorobotics
Table 3-13 Accuray CyberKnife M6 Series Benefits:
Table 3-14 Accuray CyberKnife M6 Series Functions
Table 3-15 Accuray CyberKnife M6 Series Uses
Table 3-16 Accuray CyberKnife M6 Series Features
Table 3-17 Accuray CyberKnife M6 Patient Comfort Features
Figure 3-18 Accuray CyberKnife M6 FIM System
Table 3-19 Accuray CyberKnife M6 FIM System Features
Figure 3-20 Accuray CyberKnife M6 FM System
Table 3-21 Accuray CyberKnife M6 FM System Design Features
Figure 3-22 Accuray CyberKnife M6 FI System
Figure 3-23 Accuray / CyberKnife VSI System
Table 3-24 Accuray TomoTherapy System Benefits
Figure 3-25 OR Productivity Prosurgics FreeHand
Table 3-26 OR Productivity Prosurgics FreeHand Functions
Figure 3-27 OR Productivity Prosurgics FreeHand 1.0
Figure 3-28 Restoration Robotics ARTAS® Robotic System
Table 3-29 ARTAS Robotic System Key Features
Table 3-30 ARTAS Robotic System Key Technology
Table 3-31 ARTAS® Robotic System Two-Needle System and Skin Tensioner
Table 3-32 ARTAS Robotic System Key Features
Figure 3-33 Restoration Robotics ARTAS
Table 3-34 Restoration Robotics ARTAS Hair Transplant System Functions
Table 3-35 Restoration Robotics ARTAS System Features:
Figure 3-36 Curexo ROBODOC Surgical System
Figure 3-37 Curexo Robodoc
Figure 3-38 Hansen Medical Magellan Robotic System
Table 3-39 Hansen Medical Magellan™ Robotic System Benefits
Table 3-40 Hansen Medical Magellan Peripheral Vascular Intervention Impact On Medical Care
Figure 3-41 Hansen Medical Magellan Robotic System
Table 3-42 Hansen Medical Magellan Robotic Catheter Functions:
Table 3-43 Hansen Medical Magellan Features
Figure 3-44 Hansen Sensei X
Table 3-45 Hansen Advanced Robotic Solution for Arrhythmias Features
Figure 3-46 Hansen Medical Sensei X Robotic System
Table 3-47 Hansen Medical Sensei® X Robotic Catheter System
Figure 3-48 InTouch Health/iRobot RP-Vantage Surgical Procedure Consult Robot
Table 3-49 InTouch Health/iRobot RP-Vantage Surgical Procedure Consult Functions
Figure 3-50 iRobot / InTouch Health RP-Vita
Table 3-51 iRobot / InTouch Health RP-Vita Features
Figure 3-52 InTouch Health/iRobot RP-7I ROBOT
Table 3-53 InTouch Health/iRobot RP-7I ROBOT Features
Figure 3-54 InTouch Health/iRobot RP-Lite
Table 3-55 InTouch Health/iRobot RP-Lite Functions
Figure 3-56 InTouch Health/iRobot RP-Xpress
Figure 3-57 InTouch Health/iRobot RP-Xpress Functions
Figure 3-58 iRobot’s Ava
Table 3-59 Titan Robotic Surgical System Benefits:
Table 3-60 Titan Amadeus Features
Table 3-61 Vecna QC Bot Features
Table 3-62 Vecna Robotics VGo Robot Functions
Figure 3-63 Healthcare Robotics Lab PR2
Figure 3-64 Healthcare Robotics Lab EL-E
Figure 3-65 Healthcare Robotics Lab Robotic Nurse Assistant
Figure 3-66 HealthCare Robotics Dusty
Table 3-67 Corindus Robotic-Assisted Control Benefits
Figure 3-68 Occupational Hazards in Cath Lab
Figure 3-69 Corindus Robotic Assisted PCI
Table 4-1 Robotic Surgery Surgical Specialty Focus
Table 4-2 Intuitive Surgical da Vinci Surgical System Improved Visualization Of The Gross Anatomy
Figure 4-3 Care-O-bot Robot Mechanics
Figure 4-4 Care-O-bot Architecture
Table 5-1 Accuray Strategy
Table 5-2 Accuray Key Elements Of Strategy
Figure 5-3 Corindus CorPath Study Results
Table 5-4 Hansen Medical Robotic-Assisted Minimally Invasive Surgery Principal Competitive Factors
Table 5-5 Intuitive Surgical Strategy To Improve Candidate Surgical Procedures
Table 5-6 iRobot Robots Dangerous Tasks Performed
Figure 5-7 iRobot (IRBT) RP-Vita Health-Care Robot
Table 5-8 MAKO Robotic Surgery Benefits
Table 5-9 Medrobotics Cardiac Surgery Improvements
Table 5-10 Medrobotics Snake Robot Technologies For Use In A Wide Range Of Surgical And Interventional Applications
Table 5-11 Medrobotics Snake Robot Technologies Specialist Areas Served
Table 5-12 Otto Bock HealthCare Product Solutions
Table 5-13 Otto Bock HealthCare Service Solutions

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