

Hip and Knee Orthopedic Surgical Robots: Market Shares, Strategies, and Forecasts, Worldwide, 2016-2022.

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Abstracts

The 2016 study has 145 pages, 64 tables and figures. Worldwide Hip and Knee Orthopedic surgical robot markets are poised to achieve significant growth. The accuracy provided by the robot is not reproducible by the human surgeon, so ultimately all surgeons will want to perform the orthopedic implants using this technology.

Robot assisted medial knee arthroplasty: orthopedic surgical robots are poised to take knee and hip surgery quality far beyond what has previously been available. The quality of knee arthroplasty is improved with robotic capability. All the advantages of surgical robots carry into the Stryker Mako orthopedic reconstruction surgical products.. When the knee and hip surgical robots are used, patients have less bleeding, reduction of post-operative pain, fewer re-admissions to hospital and faster recovery. Robots support high-precision surgery. A clinic in Switzerland, La Source, has reported a reduction in the average days of hospitalization from 10 to 6.

Knee and hip surgical robots provide consistent reproducible precision. This capability is so significant for implant surgery that the robots are positioned to become the defacto standard of care for knee and hip surgery within five years. Any one getting a knee or hip replaced will demand attention to quality of life, to maintenance of lifestyle provided by a robot when they have a joint replacement.

As next generation systems, hip and knee robotic units provide a way to improve traditional orthopedic hip and knee replacement surgery. Total hip replacement surgery has evolved dramatically as advances in technology have brought improved surgical techniques. Surgical robots are a significanty [art of that advance.

Once, the penetration achieves this 35% level, all orthopedic surgeons will demand that hospitals offer robotic orthopedic surgical capability because the outcomes are more predictable and better. If the hospital does not offer the robot, the surgeon will move to a more modern facility.

Knee and Hip Surgical Robots have been impacted by the reduction in insurance payments. Payment reductions have forced hospitals to start acting as businesses. The cost of delivering care has become as much a factor as providing quality care when making decisions about patient improvement in condition. Cost-cutting has been made in the supply chain. Suppliers were examined closely for quality and cost.

The number of suppliers is reduced to put pressure on the ones that remain. Those remaining are pressured to improve prices and efficiencies. Hospitals, physicians, and care providers have been financially incentivized to create accountable care organizations (ACOs). Coordinated patient care plans and value-based purchasing were rewarded. The med device buyer shifted from physicians to the ACOs and smart buying groups.

Stryker has thrived in this cost efficient environment with a surgical robot that permits faster surgeries, more cost efficient surgeries. In addition, Stryker offers an integrated system. The ability to include a Mako total knee application with Stryker Triathlon total knee system is anticipated to increase market share for Stryker. Stryker market leading Triathlon total knee system is helped in the market by the robot simply by the improved surgical technique possible. Surgical robots are proving themselves in a variety of disciplines, lending credibility to the Stryker robotic initiative.

“Use of the robot with the orthopedic implant represents a key milestone in reconstructive surgery. Robots provide an opportunity to transform orthopedics. By furthering the growth of robotic-arm assisted surgery, patients can get better treatment. By enhancing the surgeon and patient experience it is likely that the entire orthopedics implant market will grow more rapidly than it would otherwise.”

Stryker uses the Mako to perform partial knee resurfacing and is happy to add robotic capability to total knee resurfacing. Technology is enhancing a wide variety of procedures in many surgical specialties.

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.

Robot-assisted surgery gives the surgeon better control over the surgical instruments and a better view of the surgical site.

Hip and knee orthopedic surgical robot device markets at \$84 million in 2015 are anticipated to reach \$4.6 billion by 2022 as next generation robotic devices, systems, and instruments are introduced to manage surgery.

The complete report provides a comprehensive analysis including procedure numbers, units sold, market value, forecasts, as well as a detailed competitive market shares and analysis of major players’ success, challenges, and strategies in each segment and sub-segment. The reports cover markets for knee and hip robotic orthopedic surgery medical specialties and sub-specialties.

Contents

Knee and Hip Surgical Robots Market Shares and Market Forecasts
Knee and Hip Surgical Robot Market Driving Forces
Knee and Hip Surgical Robot Market Shares
Knee and Hip Surgical Robot Forecasts

1. KNEE AND HIP SURGICAL ROBOTS MARKET DESCRIPTION AND MARKET DYNAMICS

1.1 Knee and Hip Surgical Robots Reduction In Payments
 1.1.1 Med Device Industry
 1.1.2 Stryker Positions to Assist Hospital Capital Investment in Knee and Hip Robotics
 1.1.3 Stryker Flex Financial Provides Assistance in the Financing Of The Surgical System Purchase
1.2 Knee and Hip Surgery Three Dimension High-Definition Visualization with Robotic Arm
1.3 Osteoporosis Impact On Hip

2. KNEE AND HIP SURGICAL ROBOTS MARKET SHARES AND MARKET FORECASTS

2.1 Knee and Hip Surgical Robot Market Driving Forces
2.2 Knee and Hip Surgical Robot Market Shares
 2.2.1 Orthopedic Surgical Robot Market Shares, Units and Dollars
 2.2.2 Stryker MAKO Platform Expansion
2.3 Knee and Hip Surgical Robot Forecasts
 2.3.1 Knee and Hip Surgical Robotic Procedures Forecasts
 2.3.2 Knee and Hip Surgical Robot Unit Analysis
 2.3.3 Hip and Knee Orthopedic Surgical Robot Market Segment Forecasts
2.4 Knee and Hip Surgical Robot Regional Analysis

3. KNEE AND HIP SURGICAL ROBOT PRODUCTS

3.1 Stryker Mako RIO Robotic Arm
 3.1.1 Stryker MAKOplasty Robotic Arm Hip Replacement Solution
 3.1.2 Stryker MAKOplasty Surgical Robotic Total Hip Arthroplasty
 3.1.3 Stryker MAKO Surgical Knee Replacements
 3.1.4 Stryker's Mako Total Knee Application Receives FDA Clearance

3.2 Stryker Knee and Hip Surgical Robot Products Benefits

3.2.1 Stryker / Mako

4. KNEE AND HIP SURGERY COMPANY DESCRIPTIONS

4.1 Orthopedic Implant Surgical Companies

4.2 DePuy Synthes / Johnson & Johnson

4.2.1 Depuy Knee Replacement System

4.3 Stryker Knee Replacement System

4.4 Zimmer Biomet

4.5 Smith&Nephew

4.5.1 Smith & Nephew Knee Implant Systems

4.5.2 Smith & Nephew Hip Implant Systems

4.5.3 Smith & Nephew Bearing Surfaces

5. KNEE AND HIP SURGICAL COMPANY DESCRIPTIONS

5.1 Shenzhen Advanced Institute Spinal Surgical Robot

5.2 Smith & Nephew

5.2.1 Smith & Nephew Revenue

5.3 Stryker / MAKO Surgical

5.3.1 Stryker Revenue

5.3.2 Stryker Results Of Operations

5.3.3 Stryker Segment Orthopaedics

5.3.4 Stryker Business Segment Operations

5.3.5 Stryker Revenue

5.3.6 Stryker Hip Recall: \$1.4 Billion Settlement

5.3.7 Stryker Regional Revenue Segment

5.3.8 Stryker Robots

5.3.9 Stryker / MAKO Surgical

5.3.10 Stryker / Mako

5.4 THINK Surgical

5.4.1 THINK Surgical TPLAN 3D Planning Workstation

5.4.2 THINK Surgical TCAT Computer Assisted Tool

5.4.3 Think Surgical

5.4.4 Think Surgical Robodoc

5.5 Wright Medical Technology

5.5.1 Wright Revenue

5.5.2 Wright Medical Group NV Revenue

- 5.5.3 Wright Medical Group N.V. Revenue for 2015 Third Quarter
- 5.5.4 Wright / Tornier
- 5.6 Zimmer Biomet

List Of Tables

LIST OF TABLES AND FIGURES

Figure ES-1 Stryker MAKO Surgical Robots

Table ES-2 Knee and Hip Surgical Robot Market Driving Forces

Table ES-3 Innovative Knee and Hip Surgical Robot Features

Figure ES-4 Orthopedic Surgical Robot Market Segments, Dollars, 2015

Figure ES-5 Knee and Hip Surgical Robots Market Forecasts, Dollars, Worldwide, 2016-2022

Table 1-1 Stryker Positions to Assist Hospital Capital Investment in Orthopedic Surgical Robots

Figure 1-2 Osteoporosis Impact on Hip

Table 1-3 Causes of Knee and Hip Deterioration

Figure 2-1 Stryker MAKO Surgical Robots

Table 2-2 Knee and Hip Surgical Robot Market Driving Forces

Table 2-3 Innovative Knee and Hip Surgical Robot Features

Figure 2-4 Orthopedic Surgical Robot Market Segments, Dollars, 2015

Table 2-5 Orthopedic Surgical Robot Market Shares, Dollars, Worldwide, 2015

Table 2-6 Orthopedic Surgical Robot Market Shares, Units and Dollars, Worldwide, 2015

Table 2-7 Medical Surgical Robot Joint Reconstruction and Joint Replacement Market Shares, Units and Dollars of Shipments, Worldwide, 2014

Table 2-8 Medical Surgical Robot Joint Reconstruction and Joint Replacement Market Installed Systems, and Units and Dollars of Shipments, Worldwide, 2015

Figure 2-9 Knee and Hip Surgical Robots Market Forecasts, Dollars, Worldwide, 2016-2022

Table 2-10 Hip and Knee Orthopedic Surgical Robot Market Segment Forecasts, Dollars, Worldwide, 2016-2022

Table 2-11 Hip, Knee, and Other Orthopedic Surgical Implant Market Segment Forecasts Units, Dollars, and Dollars per Unit, United States and Worldwide, 2016-2022

Table 2-12 Knee Orthopedic Surgical Implant Market Segment Forecasts, Units, Dollars, and Dollars per Unit, United States and Worldwide, 2016-2022

Table 2-13 Hip Orthopedic Surgical Implant Market Segment Forecasts, Units, Dollars, and Dollars per Unit, United States and Worldwide, 2016-2022

Table 2-14 Other Orthopedic Surgical Implant Market Segment Forecasts, Units, Dollars, and Dollars per Unit, United States and Worldwide, 2016-2022

Table 2-15 Hip, Knee, and Other Orthopedic Surgical Implant Market Segment Forecasts Dollars, Worldwide, 2016-2022

Figure 2-16 Knee Implants Market Forecasts, Dollars, Worldwide, 2016-2022

Figure 2-17 Hip Implants Market Forecasts, Dollars, Worldwide, 2016-2022

Figure 2-18 Other Implants Market Forecasts, Dollars, Worldwide, 2016-2022

Figure 2-19 Orthopedic Implants Market Forecasts, Dollars, Worldwide, 2016-2022

Table 2-20 Medical Surgical Robot Joint Reconstruction and Joint Replacement Market Shares, Units and Dollars of Shipments, Worldwide, 2014

Table 2-21 Medical Surgical Robot Joint Reconstruction and Joint Replacement Market Installed Systems, and Units and Dollars of Shipments, Worldwide, 2015

Table 2-22 Orthopedic Surgical Robot Regional Market Segments, Dollars, 2015

Table 2-23 Orthopedic Surgical Robot Regional Market Segments, Dollars, 2015

Figure 3-1 Stryker Mako Advanced RIO Robotic Arm

Figure 3-2 Stryker MAKOpasty Robotic Arm Solution

Figure 3-3 Stryker MAKOpasty Hip Arthroplasty

Figure 3-4 Stryker MAKOpasty Hip Arthroplasty

Table 3-5 Stryker MAKOpasty Surgical Robotic Total Hip Arthroplasty Features

Figure 3-6 Stryker Hip Joint Kinematics

Figure 3-7 Stryker RIO Robotic Arm Interactive Orthopedic System

Figure 3-8 Stryker MAKOpasty

Figure 3-9 Stryker Mako RESTORIS Hip System Components

Table 3-10 Stryker Mako Diverse Family of RESTORIS Hip Implant Systems

Figure 3-11 MAKO Surgical Maker Of Robots To Assist In Knee Replacements

Figure 3-12 Stryker Mako Robotic Stations for Surgery Planning and Bone Cutting

Figure 3-13 Stryker Knee and Hip Surgical Robot For Bone Cutting

Figure 3-14 Stryker Knee Surgical Robot Precision Cutter Decreases Need For Bone Resurfacing

Figure 3-15 Stryker Mako Surgical Preoperative and Post Operative Knee Surgery Images

Table 3-16 Stryker Mako Surgical Robot Knee Arthroplasty Benefits

Table 4-1 Zimmer Biomet Musculoskeletal Healthcare Offerings

Figure 4-2 Smith & Nephew Product Line

Figure 5-1 Smith & Nephew Laser Surgical Instrument

Figure 5-2 Stryker Joint Implants

Figure 5-3 Stryker Patient Specific Pre-Operative Planning

Figure 5-4 Stryker Patient Specific Pre-Operative Planning

Table 5-5 Stryker Better Fit Orthopedics

Table 5-6 Stryker Osteoarthritis Affects Compartments Of The Knee

Figure 5-7 Stryker / MAKO Surgical RIO Robotic Arm Interactive System

Figure 5-8 MAKO Surgical Restoris

Figure 5-9 THINK Surgical TPLAN 3D Planning Workstation

Figure 5-10 THINK Surgical TPLAN Workstation

Figure 5-11 THINK Surgical TCAT Computer Assisted Tool

Figure 5-12 Think Surgical Planning

Figure 5-13 Think SurgicalRobodoc

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