

U.S. Orthopedic Surgical Planning Software Market Size, Share & Trends Analysis Report By Software Delivery (Cloud Based, On Premise), By Software Type (Pre-Operative, Post Operative), By End-use, And Segment Forecasts, 2025 - 2030

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Abstracts

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U.S. Orthopedic Surgical Planning Software Market Growth & Trends

The U.S. orthopedic surgical planning software market size is expected to reach USD 34.87 million by 2030 and is expected to expand at a CAGR of 6.05% from 2025 to 2030, according to a new study by Grand View Research, Inc. Increasing adoption of orthopedic surgical planning software by hospitals and clinics for efficient workflow management is driving market growth. Moreover, technological advancements and innovations in precision and efficiency in the industry boost market growth. For instance, in June 2021, Radlink, Inc. introduced Radlink3D, an intraoperative software designed to assess cup positions and address pelvic tilt and spinopelvic mobility during total hip replacement surgeries. This innovative technology employs 2D-3D registration for preoperative planning.

As the global population ages, there is a substantial rise in the prevalence of age-related orthopedic conditions, such as osteoarthritis, degenerative joint diseases, fractures, and osteoporosis. As per the WHO report, by the year 2030, one in every six individuals globally will be 60 years or older. At that time, the percentage of the population aged 60 and up will rise from 1 billion in 2020 to 1.4 billion. By the year 2050, the global population of those aged 60 years and above will be twice as large, reaching 2.1 billion. This demographic is particularly vulnerable to orthopedic conditions due to the

natural degeneration of bones and joints over time, along with decreased mobility and muscle mass. Thus, such factors are anticipated to fuel market growth over the forecast period.

Furthermore, minimally invasive surgeries have gained attention in orthopedics for their benefits, including smaller incisions, less tissue trauma, and faster recovery times. Common procedures include arthroscopy, endoscopic spinal surgeries, and minimally invasive joint replacements. These techniques necessitate thorough preoperative and postoperative planning because of their complexity. Orthopedic surgical planning software plays a crucial role by providing detailed 3D visualizations, real-time simulations, and precise measurements. This technology helps surgeons navigate complex anatomical structures effectively, contributing to the accelerated growth of the market.

Furthermore, market players are opting for various strategic initiatives expected to boost the growth of the market in the country. Medtronic has launched new AI-driven preoperative planning tools tailored for orthopedic surgeries, responding to the increasing demand for advanced technologies in the field. This initiative reflects a broader trend of integrating artificial intelligence into surgical planning processes to enhance precision and outcomes. In addition, in June 2024, Zimmer Biomet formed a strategic partnership with a healthcare software provider to develop AI-powered preoperative planning tools aimed at improving precision in orthopedic surgeries. Such collaborations emphasize the commitment of major players to innovate and enhance surgical planning technologies.

U.S. Orthopedic Surgical Planning Software Market Report Highlights

Based on software delivery, the cloud-based segment held the largest revenue share in 2024, owing to rising technological advancements, and a shortage of skilled professionals to operate and manage this software in healthcare facilities.

Based on software type, the pre-operative segment dominated the market with revenue share in 2024, due to growing awareness regarding the benefits associated with the use of pre-operative surgical planning software.

Based on end use, the orthopedic clinics owing to patients' increasing preference for surgery in orthopedic clinics and the increasing number of orthopedic clinics globally.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
 - 1.1.1. Segment scope
 - 1.1.2. Regional scope
 - 1.1.3. Estimates and forecast timeline
- 1.2. Research Methodology
- 1.3. Information Procurement
 - 1.3.1. Purchased database
 - 1.3.2. GVR's internal database
 - 1.3.3. Secondary sources
 - 1.3.4. Primary research
 - 1.3.5. Details of primary research
- 1.4. Information or Data Analysis
 - 1.4.1. Data analysis models
- 1.5. Market Formulation & Validation
- 1.6. Model Details
 - 1.6.1. Commodity flow analysis (Model 1)
 - 1.6.1.1. Approach 1: Commodity flow approach
- 1.7. Research Assumptions
- 1.8. List of Secondary Sources
- 1.9. List of Primary Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
 - 2.2.1. Software Delivery outlook
 - 2.2.2. Software Type outlook
 - 2.2.3. End Use outlook
- 2.3. Competitive Insights

CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Parent Market Outlook
 - 3.1.2. Related/Ancillary Market Outlook

- 3.2. U.S. Orthopedic Surgical Planning Software Market - Market Dynamics
 - 3.2.1. Market Driver Analysis
 - 3.2.2. Market Restraint Analysis
- 3.3. U.S. Orthopedic Surgical Planning Software Market: Analysis Tools
 - 3.3.1. Porter's Five Forces Analysis
 - 3.3.2. PESTLE Analysis
- 3.4. Current Market Trends in Orthopedic Surgical Planning Software Industry
- 3.5. Case Study Analysis

CHAPTER 4. U.S. ORTHOPEDIC SURGICAL PLANNING SOFTWARE MARKET: SOFTWARE DELIVERY ESTIMATES & TREND ANALYSIS

- 4.1. Definition and Scope
- 4.2. Software Delivery Market Share Analysis, 2024 & 2030
- 4.3. Segment Dashboard
- 4.4. U.S. Orthopedic Surgical Planning Software Market, by Software Delivery, 2018 to 2030
- 4.5. Cloud-based
 - 4.5.1. Cloud-based Market Estimates and Forecasts, 2018 - 2030 (USD Million)
- 4.6. On-premise
 - 4.6.1. On-premise Market Estimates and Forecasts, 2018 - 2030 (USD Million)

CHAPTER 5. U.S. ORTHOPEDIC SURGICAL PLANNING SOFTWARE MARKET: SOFTWARE TYPE ESTIMATES & TREND ANALYSIS

- 5.1. Definition and Scope
- 5.2. Software Type Market Share Analysis, 2024 & 2030
- 5.3. Segment Dashboard
- 5.4. U.S. Orthopedic Surgical Planning Software Market, by Software Type, 2018 to 2030
- 5.5. Pre-Operative
 - 5.5.1. Pre-Operative Market Estimates and Forecasts, 2018 - 2030 (USD Million)
- 5.6. Post Operative
 - 5.6.1. Post Operative Estimates and Forecasts, 2018 - 2030 (USD Million)

CHAPTER 6. U.S. ORTHOPEDIC SURGICAL PLANNING SOFTWARE MARKET: END USE ESTIMATES & TREND ANALYSIS

- 6.1. Definition and Scope

- 6.2. End Use Market Share Analysis, 2024 & 2030
- 6.3. Segment Dashboard
- 6.4. U.S. Orthopedic Surgical Planning Software Market, by End Use, 2018 to 2030
- 6.5. Hospitals
 - 6.5.1. Hospitals Market Estimates and Forecasts, 2018 - 2030 (USD Million)
- 6.6. Orthopedic Clinics
 - 6.6.1. Orthopedic Clinics Market Estimates and Forecasts, 2018 - 2030 (USD Million)

CHAPTER 7. U.S. ORTHOPEDIC SURGICAL PLANNING SOFTWARE MARKET: COMPETITIVE LANDSCAPE

- 7.1. Participant's Categorization
- 7.2. Company Market Position Analysis, 2024
- 7.3. Strategy Mapping
- 7.4. Company Profiles
 - 7.4.1. Stryker
 - 7.4.1.1. Overview
 - 7.4.1.2. Financial Performance
 - 7.4.1.3. Product Benchmarking
 - 7.4.1.4. Strategic Initiatives
 - 7.4.2. Radlink, Inc.
 - 7.4.2.1. Overview
 - 7.4.2.2. Financial Performance
 - 7.4.2.3. Product Benchmarking
 - 7.4.2.4. Strategic Initiatives
 - 7.4.3. Zimmer Biomet
 - 7.4.3.1. Overview
 - 7.4.3.2. Financial Performance
 - 7.4.3.3. Product Benchmarking
 - 7.4.3.4. Strategic Initiatives
 - 7.4.4. DePuy Synthes (Johnson & Johnson Medical Devices Companies)
 - 7.4.4.1. Overview
 - 7.4.4.2. Financial Performance
 - 7.4.4.3. Product Benchmarking
 - 7.4.4.4. Strategic Initiatives
 - 7.4.5. Enhatch Inc.
 - 7.4.5.1. Overview
 - 7.4.5.2. Financial Performance
 - 7.4.5.3. Product Benchmarking

- 7.4.5.4. Strategic Initiatives
- 7.4.6. Brainlab AG
 - 7.4.6.1. Overview
 - 7.4.6.2. Financial Performance
 - 7.4.6.3. Product Benchmarking
 - 7.4.6.4. Strategic Initiatives
- 7.4.7. Corin Group.
 - 7.4.7.1. Overview
 - 7.4.7.2. Financial Performance
 - 7.4.7.3. Product Benchmarking
 - 7.4.7.4. Strategic Initiatives
- 7.4.8. EOS imaging (ATEC Spine Inc.)
 - 7.4.8.1. Overview
 - 7.4.8.2. Financial Performance
 - 7.4.8.3. Product Benchmarking
 - 7.4.8.4. Strategic Initiatives
- 7.4.9. Formus Labs Ltd
 - 7.4.9.1. Overview
 - 7.4.9.2. Financial Performance
 - 7.4.9.3. Product Benchmarking
 - 7.4.9.4. Strategic Initiatives
- 7.4.10. mediCAD.
 - 7.4.10.1. Overview
 - 7.4.10.2. Financial Performance
 - 7.4.10.3. Product Benchmarking
 - 7.4.10.4. Strategic Initiatives

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