

Global Robotic-Assisted Total Knee Arthroplasty Supply, Demand and Key Producers, 2024-2030

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Abstracts

The global Robotic-Assisted Total Knee Arthroplasty market size is expected to reach \$ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

The market for robotic orthopedic surgery is witnessing significant growth, driven by advancements in robotic technology and a growing demand for minimally invasive surgical procedures in orthopedics. Robotic systems, such as robotic-assisted surgical platforms, offer enhanced precision, control, and visualization for orthopedic procedures, contributing to improved patient outcomes and faster recovery times. The market is characterized by the adoption of robotic systems in joint replacement surgeries, spine surgery, and trauma procedures. As the technology continues to evolve, future developments are expected to focus on expanding the range of orthopedic procedures that can benefit from robotic assistance, refining robotic interfaces and instrumentation, and incorporating artificial intelligence for real-time decision support during surgeries. The increasing aging population and rising prevalence of orthopedic conditions are anticipated to drive sustained growth in the market, with a continued emphasis on improving surgical accuracy and patient satisfaction.

Robotic-Assisted Total Knee Arthroplasty (RATKA) is an advanced surgical technique that incorporates robotic technology to enhance the precision and accuracy of total knee replacement procedures. During RATKA, a robotic system assists the orthopedic surgeon in planning and executing the surgery with greater control and customization. The process involves preoperative imaging to create a 3D model of the patient's knee, allowing for precise planning. During the surgery, the robotic system guides the surgeon in positioning the implants with optimal alignment and balance. This technology aims to

improve the overall outcomes of knee arthroplasty by minimizing errors, enhancing implant placement, and potentially reducing recovery time and postoperative complications. RATKA represents a significant advancement in orthopedic surgery, offering a more personalized and technologically assisted approach to total knee replacement.

This report studies the global Robotic-Assisted Total Knee Arthroplasty production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robotic-Assisted Total Knee Arthroplasty, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of Robotic-Assisted Total Knee Arthroplasty that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robotic-Assisted Total Knee Arthroplasty total production and demand, 2019-2030, (K Units)

Global Robotic-Assisted Total Knee Arthroplasty total production value, 2019-2030, (USD Million)

Global Robotic-Assisted Total Knee Arthroplasty production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (K Units)

Global Robotic-Assisted Total Knee Arthroplasty consumption by region & country, CAGR, 2019-2030 & (K Units)

U.S. VS China: Robotic-Assisted Total Knee Arthroplasty domestic production, consumption, key domestic manufacturers and share

Global Robotic-Assisted Total Knee Arthroplasty production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (K Units)

Global Robotic-Assisted Total Knee Arthroplasty production by Number of Cells, production, value, CAGR, 2019-2030, (USD Million) & (K Units)

Global Robotic-Assisted Total Knee Arthroplasty production by Application production,

value, CAGR, 2019-2030, (USD Million) & (K Units).

This reports profiles key players in the global Robotic-Assisted Total Knee Arthroplasty market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Stryker, Zimmer Biomet, Smith & Nephew, Johnson & Johnson, Corin Group, THINK Surgical, Monogram Orthopaedics, Curexo Technology and TINAVI, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Robotic-Assisted Total Knee Arthroplasty market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Number of Cells, and by Application. Data is given for the years 2019-2030 by year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

Global Robotic-Assisted Total Knee Arthroplasty Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robotic-Assisted Total Knee Arthroplasty Market, Segmentation by Number of Cells

Semi-automatic System

Fully Automatic System

Global Robotic-Assisted Total Knee Arthroplasty Market, Segmentation by Application

Hospitals

Ambulatory Surgical Center

Others

Companies Profiled:

Stryker

Zimmer Biomet

Smith & Nephew

Johnson & Johnson

Corin Group

THINK Surgical

Monogram Orthopaedics

Curexo Technology

TINAVI

MicroPort Scientific

YuanHua Tech

Hangzhou Jianjia robot

HURWA

FUTURTEC

Key Questions Answered

1. How big is the global Robotic-Assisted Total Knee Arthroplasty market?
2. What is the demand of the global Robotic-Assisted Total Knee Arthroplasty market?
3. What is the year over year growth of the global Robotic-Assisted Total Knee Arthroplasty market?
4. What is the production and production value of the global Robotic-Assisted Total Knee Arthroplasty market?
5. Who are the key producers in the global Robotic-Assisted Total Knee Arthroplasty market?

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