

# **Middle East & Africa Minimally Invasive Surgery Robot Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product and Services (Robotic Systems, Instruments and Accessories, and Services), Application (General Surgery, Gynecological Surgery, Urological Surgery, Neurosurgery, Orthopedic Surgery, and Others), and End Use (Hospitals, Ambulatory Surgery Centers, and Others)**

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## **Abstracts**

The Middle East & Africa Minimally Invasive Surgery Robot Market is projected to experience substantial growth, with an expected market size of approximately US\$ 1,416.3 million by 2031, up from US\$ 568.9 million in 2024. This growth translates to a compound annual growth rate (CAGR) of 14.0% from 2025 to 2031, driven by various factors including increased healthcare investments, government initiatives, and the rising prevalence of chronic diseases.

## **Market Overview**

The market is segmented into key regions including Saudi Arabia, the UAE, South Africa, and the Rest of the Middle East & Africa. The growth of the minimally invasive surgery robot market is largely attributed to the increasing investments in healthcare infrastructure and the burgeoning medical tourism sector in these regions. Additionally, private sector investments in innovative surgical technologies are contributing to market expansion.

The rising incidence of chronic diseases, coupled with increased healthcare spending, is expected to further propel the demand for minimally invasive surgical robots. Collaborations among market players to introduce advanced surgical technologies are also anticipated to enhance market growth during the forecast period.

## **Strategic Insights**

### **Market Segmentation**

The Middle East & Africa Minimally Invasive Surgery Robot Market is categorized by product and services, application, and end use:

**By Product and Services:** The market is divided into Robotic Systems, Instruments and Accessories, and Services. In 2024, Instruments and Accessories accounted for the largest market share, reflecting the essential role these components play in surgical procedures.

**By Application:** The market is segmented into General Surgery, Gynecological Surgery, Urological Surgery, Neurosurgery, Orthopedic Surgery, and Others. General Surgery held the largest share in 2024, indicating its widespread application in surgical practices.

**By End Use:** The market is categorized into Hospitals, Ambulatory Surgery Centers, and Others, with Hospitals dominating the market share in 2024, as they are the primary settings for advanced surgical procedures.

## **Market Outlook**

A significant trend in the minimally invasive surgery robot market is the integration of artificial intelligence (AI) and machine learning (ML) into surgical systems. This AI-driven surgical assistance enhances surgical precision, improves decision-making, and supports real-time data analysis during procedures. AI systems can analyze extensive patient data, imaging, and surgical history to assist surgeons in planning optimal surgical approaches. During operations, AI can provide real-time feedback on tissue characteristics and potential complications, thereby reducing human error and improving patient outcomes.

For instance, in September 2025, Zayed Military Hospital in Abu Dhabi became the first

facility in the UAE to utilize an AI-enabled robotic arm for knee replacement surgery, marking a significant advancement in surgical care. The incorporation of AI into robotic platforms is rapidly transforming minimally invasive surgery, enabling innovations such as telesurgery and enhanced procedural efficiency.

## **Country Insights**

The market is further analyzed by country, with Saudi Arabia, South Africa, and the UAE being the primary contributors. Saudi Arabia, in particular, has shown remarkable growth in surgical robotic procedures. For example, Johns Hopkins Aramco Healthcare (JHAH) achieved a milestone by performing 300 robotic-assisted surgeries in a single year, showcasing the increasing adoption of advanced surgical technologies in the region. Additionally, King Faisal Specialist Hospital and Research Centre (KFSH and RC) reported a 98% survival rate across 400 robotic cardiac surgeries, establishing itself as a leader in robotic cardiac care.

## **Competitive Landscape**

Key players in the Minimally Invasive Surgery Robot Market include Medtronic Plc, Stryker Corp, Johnson & Johnson, Zimmer Biomet Holdings Inc, Smith & Nephew Plc, Intuitive Surgical Inc, Asensus Surgical Inc, CMR Surgical Ltd, Moon Surgical, and CUREXO, INC. These companies are actively pursuing strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative solutions to consumers.

## **Conclusion**

The Middle East & Africa Minimally Invasive Surgery Robot Market is poised for significant growth, driven by technological advancements, increasing healthcare investments, and a rising demand for efficient surgical solutions. As the region continues to embrace innovative surgical technologies, the market is expected to thrive, providing improved patient outcomes and transforming surgical practices.

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