

The Robotic Endoluminal Surgery Market is projected to achieve a value of US \$3.32 billion by 2030.

The Business Research Company's Robotic Endoluminal Surgery Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

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/EINPresswire.com/ -- The [robotic endoluminal surgery market](#) has been

experiencing significant expansion, driven by advancements in minimally invasive surgical techniques and robotic technology. As healthcare providers focus on improving patient outcomes with less invasive procedures, this market is set to grow rapidly over the coming years. Below is an overview of the market size, key growth factors, major players, regional insights, and emerging trends shaping this dynamic field.



Market Size Projections and Growth [Trajectory in the Robotic Endoluminal Surgery Market](#)

The market for robotic endoluminal surgery has seen a notable rise recently. It is projected to grow from \$1.45 billion in 2025 to \$1.71 billion in 2026, reflecting a strong compound annual growth rate (CAGR) of 18.4%. This surge so far has been fueled by the increasing preference for minimally invasive surgeries, wider adoption of endoscopic technology, demand for shorter hospital stays, and the growing use of robotic-assisted procedures that offer enhanced precision for hard-to-reach anatomical areas.

Looking further ahead, the market is expected to continue its rapid expansion, reaching \$3.33 billion by 2030 with a CAGR of 18.1%. Factors contributing to this projected growth include rising investments in surgical robotics research, integration of artificial intelligence (AI) and machine learning into surgical systems, commercialization of flexible robotic platforms, and expanding clinical applications in gastrointestinal and vascular surgeries. Key trends during this period are likely to include breakthroughs in flexible robotic endoscopes, capsule and micro-robotics, AI-assisted navigation, autonomous robotic surgery research, and advancements in real-time imaging and visualization technologies.

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Understanding Robotic Endoluminal Surgery and Its Advantages

Robotic endoluminal surgery involves the use of robotic systems to perform minimally invasive procedures within hollow organs and natural body lumens such as blood vessels, the gastrointestinal tract, and airways. These robotic platforms provide surgeons with the ability to precisely navigate, visualize, and manipulate surgical instruments inside complex and narrow anatomical spaces that are difficult to reach with traditional surgical methods.

By enhancing control, dexterity, and stability during operations within these internal passages, robotic endoluminal systems improve surgical accuracy, minimize tissue damage, and promote faster recovery for patients. This technology represents a significant advancement over conventional techniques by allowing for more delicate and precise interventions in previously challenging areas.

Rising Demand for Minimally Invasive Procedures Boosting Market Growth

The expanding adoption of minimally invasive surgical techniques is a crucial factor propelling the robotic endoluminal surgery market. These surgeries typically involve small incisions or single-entry points, which help reduce patient trauma, shorten recovery periods, and lower complication risks when compared to traditional open surgeries.

Hospitals and patients alike are increasingly valuing these benefits, driving demand for robotic systems that support such procedures. Robotic endoluminal surgery enables greater precision in navigating and operating within internal lumens such as those in the gastrointestinal or respiratory systems, thereby improving patient outcomes through less tissue damage and faster healing. For example, in January 2025, Intuitive Surgical Inc., a leading US medical technology company, reported that global da Vinci robotic-assisted surgical procedures—a widely used minimally invasive system—grew about 18% in the last quarter of 2024 compared to the same period in 2023. The full year 2024 saw a 17% increase over 2023, with expectations for another 13% to 16% rise in 2025. Such data highlights the strong momentum behind robotic-assisted minimally invasive surgeries and their role in expanding this market.

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<https://www.thebusinessresearchcompany.com/report/robotic-endoluminal-surgery-market-report>

Key Regional Markets and Growth Opportunities in Robotic Endoluminal Surgery

In 2025, North America held the largest share of the robotic endoluminal surgery market, reflecting strong adoption of advanced surgical technologies and well-established healthcare infrastructure. However, the fastest growth is projected to occur in the Asia-Pacific region during the forecast period, driven by increasing healthcare investments, rising awareness of minimally invasive options, and expanding surgical capabilities in emerging economies.

The market report covers a broad geographic scope, including regions such as Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and

Africa, providing a comprehensive view of global trends and regional dynamics that are shaping the future of robotic endoluminal surgery.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: saumyas@tbrc.info

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Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

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