

Minimally Invasive Surgery Market Size, Share & Trends Analysis Report By Surgical Specialty (General Surgery, Gynecological Surgery), By Method (Laparoscopic, Robotic-assisted), By End Use (Hospitals, ASCs), By Region And Segment Forecasts, 2025 - 2033

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Abstracts

Minimally Invasive Surgery Market Trends

The Minimally Invasive Surgery market size was valued at USD 486.72 billion in 2024 and is projected to reach USD 946.50 billion by 2033, growing at a CAGR of 7.82% from 2025 to 2033. The industry outlook is attributed to technological advancements, a growing geriatric population, and an increasing chronic disease burden. An important growth driver of minimally invasive surgery is the rising global surgical volume combined with a strong preference for less invasive approaches.

Minimally invasive surgeries have steadily increased over the years, becoming the preferred approach for many procedures due to their safety and faster recovery benefits. In July 2025, a research article noted that minimally invasive surgeries were linked with increased clinical outcomes, such as shorter hospital stays, fewer complications, and decreased recovery time. Furthermore, the report explains that when a hospital adopts the concept of MIS, the overall rate of minimally invasive surgery, such as laparoscopic or robotic, is likely to increase quickly, as both patients and surgeons prefer this method. These observations illustrate that the upward trajectory of surgical volumes, combined with the changing practice towards minimally invasive surgical techniques, is a large part of the current growth of this sector.

Minimally invasive surgery usage varies significantly between low- and middle-income countries (LMICs) and high-income countries (HICs). The main reasons are that the healthcare infrastructure, the surgical experts, and the resources are very different in these two. For example, in LMICs such as Uganda, Malaysia, and Vietnam, around 90% of MIS surgeries belong to the gynecology department, which includes uterine surgeries, appendectomy, and cholecystectomy. Those are the most common surgeries, and the local hospitals have the necessary instruments to perform them. Japan, Singapore, and the U.S. have fewer limitations on health care resources, and they can go a step further in the use of MIS for the various numbers of surgeries that they want to include in their operation profile, such as choledochal cyst excision and thoracic surgery that require not only the equipment but also the surgeon to train in that. The types of MIS procedures in different countries depend on healthcare resources and the system's maturity level.

Global Minimally Invasive Surgery Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global Minimally Invasive Surgery (MIS) market report on the basis of surgical specialty, method, end use, and region:

Surgical Specialty Outlook (Revenue, USD Million, 2021 - 2033)

General Surgery

Gastrointestinal Surgery

Gynecological Surgery

Urological Surgery

Cardiothoracic Surgery

Orthopedic & Spine Surgery

Neurosurgery

Colorectal Surgery

Bariatric Surgery

Vascular & Endoscopic Surgery

Plastic & Reconstructive Surgery

Method Outlook (Revenue, USD Million, 2021 - 2033)

Laparoscopic Surgery

Thoracoscopic Surgery/VATS

Robotic-assisted Surgery

Endoscopic Surgery

Catheter-based/Interventional Procedures

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals

Ambulatory Surgical Centers (ASCs)

Specialty Clinics

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Kuwait

UAE

Saudi Arabia

Qatar

Oman

Rest of the Middle East

Rest of Africa

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