

# Laparoscopic Robotic-assisted Procedures Market Size, Share & Trends Analysis Report By Application (General Surgery, Urology, Gynecology, Bariatric, Colorectal), By Procedure Complexity, By End-use, By Region, And Segment Forecasts, 2025 - 2033

<https://marketpublishers.com/r/L2B1110BB24BEN.html>

Date: September 2025

Pages: 150

Price: US\$ 5,950.00 (Single User License)

ID: L2B1110BB24BEN

## Abstracts

### Laparoscopic Robotic-assisted Procedures Market Summary

The global laparoscopic robotic-assisted procedures market size was estimated at USD 7.33 billion in 2024 and is projected to reach USD 31.56 billion by 2033, growing at a CAGR of 17.71% from 2025 to 2033. The growing integration of advanced technology, broader application across different procedures, and rising institutional investment are propelling the use of laparoscopic surgical robotics.

Hospitals are adopting robotic systems in diverse specialties and types of procedures, supported by enhanced clinical validation and improved operational efficiency. These trends are leading to the standardization of surgical robotics within routine hospital workflows. For example, Summerlin Hospital Medical Center in Nevada, U.S., utilizes the da Vinci Surgical System to conduct robot-assisted laparoscopic surgeries for kidney patients.

The increasing demand for minimally invasive surgeries drives the adoption of laparoscopic surgical robots. Both patients and healthcare providers prioritize procedures that minimize trauma, promote faster recovery, and reduce complications. Robotic systems improve the precision and control necessary for these procedures, allowing surgeons to conduct complex maneuvers through smaller incisions. Furthermore, the market is experiencing growth due to increased product approvals. For instance, in October 2024, CMR Surgical received de novo clearance from the FDA for

its Versius surgical system, which permits its modular, cart-based laparoscopic robot to be introduced in the U.S.

One of the key factors propelling the laparoscopic robotic-assisted procedures industry forward is the ability of laparoscopic surgical robot systems to reduce human errors in the operating room. These robotic systems provide stable hands and accurate movements, significantly reducing the risk of errors during complex surgical procedures. By enhancing visualization and dexterity, robotic platforms help address challenges such as hand tremors or fatigue that compromise the accuracy of procedures. For instance, over 1,700 da Vinci Systems were installed in healthcare facilities worldwide, with over 775,000 patients having undergone a procedure using the da Vinci system.

The increasing number of regulatory approvals and patent grants drives growth in the laparoscopic surgical robot sector by speeding up product launches and technological advancements. Efficient pathways provided by agencies such as the FDA and CE Mark have facilitated the quick introduction of technologically advanced laparoscopic surgical systems. For instance, in June 2024, the FDA granted clearance for the commercial version of Moon Surgical's Maestro system, a robotic platform designed to support and manipulate laparoscopic instruments during soft tissue surgeries. This clearance allows the system, which integrates NVIDIA Holoscan and AI-powered ScoPilot technology, to be used in US hospitals to enhance surgical precision and workflow efficiency in various procedures.

## Global Laparoscopic Robotic-assisted Procedures Market Report Segmentation

This report forecasts revenue growth and provides at the global, regional, and country levels an analysis of the latest trends in each of the sub-segments from 2021 to 2033. For this report, Grand View Research has segmented the global laparoscopic robotic-assisted procedures market report based on application, procedure complexity, end-use, and region:

Application Outlook (Revenue USD Million, 2021 - 2033)

General Surgery

Urology

Gynecology

Colorectal

Bariatric

ENT (Otolaryngology)

Others (Cardiothoracic, Thoracic, Pediatric)

Procedure Complexity Outlook (Revenue USD Million, 2021 - 2033)

High complexity

Medium complexity

Low complexity

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

Large hospital systems (multi-facility)

Standalone / private hospitals

Specialty clinics / ASCs

Other (Research / training centers)

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

Saudi Arabia

UAE

Kuwait

**This report can be delivered to the clients within 3 Business Days**

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