

# **Surgical Robot Procedures Market Size, Share & Trends Analysis Report By Application (Urology, General Surgery, Gynecology), By Procedure Type (Endoscopic Robotic Procedures), By Procedure Complexity, By End-use, By Region, And Segment Forecasts, 2025 - 2033**

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## **Abstracts**

### **Surgical Robot Procedures Market Summary**

The global surgical robot procedures market size was estimated at USD 12.11 billion in 2024 and is projected to reach USD 50.63 billion by 2033, growing at a CAGR of 17.32% from 2025 to 2033. The convergence of advanced technology integration, broader procedural applicability, and rising institutional investment is driving the adoption of surgical robotics.

Hospitals are incorporating robotic systems across a wider range of specialties and procedure types, supported by growing clinical validation and operational efficiency. These developments are contributing to the standardization of surgical robotics within routine hospital workflows. In April 2024, Ohio State completed its first surgeries using the da Vinci 5 system, the latest-gen surgical robot with advanced tactile feedback and precision.

Rising demand for minimally invasive surgeries continues to be a primary catalyst for surgical robot adoption. Patients and providers alike are prioritizing procedures that offer reduced trauma, faster recovery, and fewer complications. Robotic systems enhance the precision and control required for these techniques, enabling surgeons to perform complex maneuvers through small incisions. In April 2025, Johnson & Johnson

MedTech completed the first clinical cases using its OTTAVA robotic system for Roux-en-Y gastric bypass at Memorial Hermann-Texas Medical Center. The trial focuses on evaluating minimally invasive performance across general surgeries. Data will support a De Novo FDA submission for multi-procedure use.

Technological advancement is rapidly evolving the capabilities and appeal of surgical robotics. Integrations such as AI-assisted navigation, improved imaging, and ergonomic consoles are transforming surgical robots into fully integrated digital platforms. Modular architectures and specialty-specific toolkits have made systems more adaptable, while innovations in automation and analytics are improving intraoperative efficiency. In January 2025, Queen Elizabeth Hospital in King's Lynn, UK, introduced the USD 1.3M Versius surgical robot to treat cancer patients. Initially used for colorectal procedures, the system enables longer, complex surgeries with greater precision and comfort. The robot is expected to treat 100 patients in its first year and expand into urology and gynecology.

The expansion of procedural indications across multiple specialties is significantly accelerating system utilization. Robotic surgery, once limited to urology and gynecology, is now being deployed in general, bariatric, colorectal, orthopedic, and cardiothoracic procedures. As clinical evidence supports efficacy and payers broaden reimbursement, hospitals are leveraging robotic platforms across diverse departments. In June 2025, a surgeon in Orlando remotely performed a prostatectomy on a patient in Angola using a robotic system, marking the first FDA-approved human trial of transcontinental telesurgery. Conducted over 7,000 miles via fiber optic cables, the procedure showcased safe, real-time precision.

## Global Surgical Robot Procedures Market Report Segmentation

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

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

Urology

General Surgery

Gynecology

Orthopedics

Cardiothoracic

Neurosurgery

ENT (Otolaryngology)

Bariatric / Metabolic

Other specialties

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

Minimally-invasive Laparoscopic Robotic-Assisted

Percutaneous / Catheter-based Robotic Procedures

Endoscopic Robotic Procedures

Open-assisted (Hybrid Open Procedures)

Others

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

High Complexity (Oncologic, Cardiac, Neuro)

Medium Complexity (Advanced Laparoscopy, Joint Replacements)

Low Complexity (Simple Laparoscopic Cases)

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

Large Hospital Systems (Multi-facility)

Standalone Hospitals / Private Hospitals

Specialty Clinics / ASCs

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

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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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