

Global Soft Tissue/Laparoscopic Surgical Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Soft Tissue/Laparoscopic Surgical Robot market size is expected to reach \$ 28713 million by 2032, rising at a market growth of 13.3% CAGR during the forecast period (2026-2032).

Soft tissue and laparoscopic surgical robots are robotic-assisted surgical systems designed for minimally invasive procedures in abdominal, pelvic, thoracic, natural-orifice, and other soft tissue surgical fields. A typical system consists of a surgeon console, patient-side robotic arms, a three-dimensional high-definition endoscopic vision system, wristed surgical instruments, energy-device interfaces, image processing software, motion-control algorithms, safety redundancy modules, training and data platforms, and procedure-specific instruments and consumables. These systems translate the surgeon's hand movements into precise intracorporeal instrument motion through master-slave control, tremor filtration, motion scaling, magnified 3D visualization, and multi-degree-of-freedom instrument articulation. They support surgical tasks such as cutting, dissection, suturing, ligation, grasping, traction, hemostasis, and reconstruction. The scope of this study mainly covers multi-port laparoscopic surgical robots, single-port laparoscopic robots, modular laparoscopic robotic systems, miniaturized surgical robots, and multi-specialty soft tissue robotic platforms. Key clinical specialties include urology, gynecology, general surgery, colorectal surgery, thoracic surgery, hepatobiliary-pancreatic surgery, gastrointestinal surgery, and selected head and neck procedures. Key evaluation metrics include system stability, robotic arm freedom, wristed instrumentation, visualization quality, latency, operating-room integration, instrument reuse, consumable cost, indication coverage, learning curve, telesurgery capability, regulatory approval, and hospital-level economics.

In 2025, the global production of soft tissue/laparoscopic surgical robots was 2,380

units, with an average price of US\$4.85 million per unit and an average gross profit margin of 64.2%.

Based on our research, the soft tissue and laparoscopic surgical robot market is not merely a robotics concept market; it is a full ecosystem built around minimally invasive soft tissue surgery, combining systems, instruments, consumables, services, training, software, and clinical workflow integration. The category first scaled in urology and then expanded into gynecology, general surgery, colorectal surgery, thoracic surgery, hepatobiliary-pancreatic surgery, and other complex laparoscopic procedures. Compared with conventional laparoscopy, robotic systems provide three-dimensional visualization, wristed instruments, motion scaling, tremor filtration, and improved surgeon ergonomics. These features are particularly valuable in deep pelvic surgery, suturing-intensive procedures, reconstructive surgery, and multi-quadrant operations. Because the business model depends heavily on instruments, accessories, service contracts, and procedure volume, the revenue model should include systems, consumables, services, and directly related software rather than only capital equipment sales.

From a supply perspective, Intuitive Surgical remains the dominant global leader, supported by the da Vinci installed base, procedural volume, clinical evidence, surgeon familiarity, and a recurring instrument and service revenue model. However, the competitive structure is becoming more diverse. Medtronic Hugo emphasizes a modular arm-cart architecture, CMR Versius focuses on portability and access, Medcaroid hinotori represents Japan's domestic robotic surgery platform, and Chinese companies such as MicroPort MedBot, Edge Medical, KangDuo, Surgerii, and Ronovo are expanding through domestic approvals, clinical adoption, telesurgery demonstrations, and multi-specialty product roadmaps. At the same time, platforms such as Virtual Incision MIRA, Moon Surgical Maestro, Distalmotion DEXTER, avatera, Revo-i, and Meril Mizzo Endo 4000 show that the market is no longer limited to one full-featured master-slave system architecture.

From a demand perspective, adoption is driven by the growth of complex minimally invasive procedures, patient preference for less invasive surgery, surgeon demand for precision and ergonomics, hospital competition in advanced surgical capabilities, and the recurring economics of high-volume robotic programs. North America remains the largest market due to procedure volume and reimbursement structure. Europe and Japan are growing under more controlled hospital budgeting and regulatory pathways. China is accelerating through domestic substitution, tertiary-hospital expansion, local manufacturing, and lower system acquisition cost. India, Korea, and selected Middle

Eastern markets are becoming more relevant as local manufacturers and hospital systems begin investing in robotic-assisted surgery. Future growth will depend not only on system placements but also on utilization, indication expansion, instrument cost reduction, training efficiency, and hospital-level return on investment.

From a technology perspective, the industry is evolving beyond conventional multi-port systems. Multi-port robots remain the core architecture for broad soft tissue use, but single-port systems are gaining relevance in urology, gynecology, and natural-orifice approaches. Modular systems allow hospitals to configure arm carts based on procedure type and operating-room constraints. Miniaturized systems and robotic assistants aim to reduce space, setup, and cost barriers. Johnson & Johnson's OTTAVA, Virtual Incision's MIRA, and Moon Surgical's Maestro illustrate a broader shift toward differentiated architectures rather than direct da Vinci imitation. In the medium term, AI-assisted workflow, image guidance, data analytics, remote surgery, haptic feedback, open instrument ecosystems, and lower-cost disposable strategies will become important areas of competition.

From a risk perspective, the market still faces high capital cost, clinical evidence requirements, regulatory scrutiny, consumable economics, and training burdens. Hospitals need sufficient procedure volume to justify system purchase and service contracts. New entrants may compete on price or modularity, but they must still prove safety, clinical value, reliability, and service capability. Device recalls and software-related safety concerns show that motion control, redundancy, cybersecurity, and human-machine interaction are critical. Over time, the market is likely to become more layered: premium platforms will dominate complex high-volume procedures, cost-efficient modular systems will expand access in mid-tier hospitals, and lightweight robotic assistants may supplement standard laparoscopy in selected procedures. The long-term winners will be companies that combine clinical evidence, installed base, consumable economics, regulatory execution, surgeon training, and reliable after-sales service.

This report studies the global Soft Tissue/Laparoscopic Surgical Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Soft Tissue/Laparoscopic Surgical Robot and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Soft Tissue/Laparoscopic Surgical Robot that contribute to its increasing demand across

many markets.

Highlights and key features of the study

Global Soft Tissue/Laparoscopic Surgical Robot total production and demand, 2021-2032, (Units)

Global Soft Tissue/Laparoscopic Surgical Robot total production value, 2021-2032, (USD Million)

Global Soft Tissue/Laparoscopic Surgical Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Soft Tissue/Laparoscopic Surgical Robot consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Soft Tissue/Laparoscopic Surgical Robot domestic production, consumption, key domestic manufacturers and share

Global Soft Tissue/Laparoscopic Surgical Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Soft Tissue/Laparoscopic Surgical Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Soft Tissue/Laparoscopic Surgical Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Soft Tissue/Laparoscopic Surgical Robot market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Intuitive Surgical, Medtronic, CMR Surgical, Johnson & Johnson, Asensus Surgical, Medcaroid, MicroPort MedBot, Edge Medical, KangDuo Surgical Robot, Surgerii Robotics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Soft Tissue/Laparoscopic Surgical Robot market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Soft Tissue/Laparoscopic Surgical Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Soft Tissue/Laparoscopic Surgical Robot Market, Segmentation by Type:

Multi-port Surgical Robot

Single-port Surgical Robot

Global Soft Tissue/Laparoscopic Surgical Robot Market, Segmentation by Operation Mode:

Master-Slave Teleoperation Type

Master-Slave Collaborative Type

Handheld Auxiliary Type

Semi-Autonomous Type

Global Soft Tissue/Laparoscopic Surgical Robot Market, Segmentation by Number of Robotic Arms:

Single Arm

Dual Arm

Triple Arm

Four Arms and Above

Global Soft Tissue/Laparoscopic Surgical Robot Market, Segmentation by Application:

Urology

Gynecology

General Surgery

Colorectal Surgery

Thoracic Surgery

Hepatobiliary-pancreatic Surgery

Gastrointestinal Surgery

Other

Companies Profiled:

Intuitive Surgical

Medtronic

CMR Surgical

Johnson & Johnson

Asensus Surgical

Medicaroid

MicroPort MedBot

Edge Medical

KangDuo Surgical Robot

Surgerii Robotics

Ronovo Surgical

WEGO Medical

Revo Surgical

avateramedical

Distalmotion

Virtual Incision

Moon Surgical

Meril Life Sciences

Titan Medical

Vicarious Surgical

EndoQuest Robotics

Momentis Surgical

SS Innovations International

Beijing Baihui Weikang Technology

Beijing TINAVI Medical Technologies

Shanghai United Imaging Intelligence

Shenzhen Reetoo Biotechnology

Beijing Changmugu Medical Technology

Key Questions Answered:

1. How big is the global Soft Tissue/Laparoscopic Surgical Robot market?
2. What is the demand of the global Soft Tissue/Laparoscopic Surgical Robot market?
3. What is the year over year growth of the global Soft Tissue/Laparoscopic Surgical Robot market?
4. What is the production and production value of the global Soft Tissue/Laparoscopic Surgical Robot market?
5. Who are the key producers in the global Soft Tissue/Laparoscopic Surgical Robot market?
6. What are the growth factors driving the market demand?

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