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Single-Port Laparoscopic Surgery Devices Market Forecasts to 2032 – Global Analysis By Product Type (Single-Port Access Devices, Accessories & Consumables, Articulating/Curved Laparoscopic Instruments, Robotic Single-Port Systems, Endoscopes & Camera Systems, Energy Devices, and Other Product Types), Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Single-Port Laparoscopic Surgery Devices Market is accounted for $922.40 million in 2025 and is expected to reach $1867.26 million by 2032 growing at a CAGR of 10.6% during the forecast period. Single-port laparoscopic surgery devices are advanced tools used to conduct minimally invasive surgeries through one small incision, usually near the belly button. They combine imaging systems, access channels, and versatile instruments to allow surgeons to maneuver and operate inside the abdomen effectively. Their single-entry design reduces trauma, lowers pain and scarring, and supports faster healing, offering surgeons a controlled and streamlined way to perform complex procedures.

Market Dynamics:

Driver:

Increasing prevalence of chronic diseases

Healthcare providers are increasingly turning to minimally invasive approaches like

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SPLS to manage complex conditions with reduced trauma. Improvements in diagnostic imaging and early detection are expanding the pool of patients eligible for surgical interventions. Aging populations across both developed and emerging economies are further accelerating the need for efficient surgical devices. Robotic-assisted SPLS systems are enhancing precision, reducing complications, and shortening recovery times. The broader trend toward personalized medicine is also encouraging adoption of specialized laparoscopic instruments tailored to patient-specific needs.

Restraint:

Limited procedure standardization and data

Variability in techniques across hospitals and regions creates inconsistencies in patient outcomes. The lack of comprehensive long-term data on SPLS procedures slows clinical adoption and reimbursement approvals. Training requirements for surgeons remain high, adding to operational complexity and limiting scalability. Smaller device manufacturers struggle to establish credibility without robust clinical evidence and standardized guidelines. These factors collectively hinder rapid market penetration and slow the pace of innovation in SPLS technologies.

Opportunity:

Robotic-assisted SPLS expansion

Advanced robotic systems provide enhanced dexterity, visualization, and precision compared to conventional laparoscopic tools. Hospitals are increasingly investing in robotic-assisted SPLS to improve surgical outcomes and reduce operative times. The combination of robotics and single-port access minimizes scarring and accelerates patient recovery. Emerging markets are adopting robotic SPLS as healthcare infrastructure modernizes and surgical volumes rise. Continuous R&D in robotics, AI, and imaging is expected to significantly expand the scope of SPLS applications.

Threat:

Alternative minimally invasive techniques

The SPLS faces competition from other minimally invasive approaches such as multi-port laparoscopy and natural orifice transluminal endoscopic surgery (NOTES). These

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alternatives are often perceived as more established, with broader clinical data supporting their use. Hospitals may hesitate to invest in SPLS devices when existing techniques already deliver satisfactory outcomes. Cost considerations also play a role, as SPLS systems can be more expensive to implement. Patient preference and surgeon familiarity with traditional laparoscopic methods further limit SPLS adoption.

Covid-19 Impact:

The pandemic disrupted surgical practices worldwide, delaying elective procedures and reducing demand for SPLS devices. Manufacturing and supply chain interruptions caused shortages in critical surgical equipment. However, the crisis accelerated digital adoption, with hospitals exploring tele-surgical platforms and remote diagnostics. Emergency regulatory approvals helped maintain access to essential surgical tools during peak disruption. Post-pandemic strategies now emphasize resilience, automation, and decentralized production to safeguard against future shocks.

The general surgery segment is expected to be the largest during the forecast period

The general surgery segment is expected to account for the largest market share during the forecast period, due to its broad application across procedures such as appendectomies, hernia repairs, and gallbladder removals drives consistent demand. SPLS devices are increasingly preferred in general surgery due to reduced scarring and faster recovery times. Hospitals are adopting advanced instruments to improve efficiency and minimize operative risks. Rising surgical volumes globally are reinforcing the importance of SPLS in general surgical practice. Continuous innovation in device design and ergonomics is further strengthening this segment’s leadership.

The ambulatory surgical centers (ASCs) segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the ambulatory surgical centers (ASCs) segment is predicted to witness the highest growth rate, due to their cost-efficient models and shorter patient turnaround times make them ideal settings for minimally invasive procedures. ASCs are increasingly equipped with advanced SPLS tools, enabling complex surgeries outside traditional hospitals. Favorable reimbursement policies are encouraging patients and providers to shift toward outpatient care. Cloud-based monitoring and inventory systems are enhancing operational efficiency in these centers.

Region with largest share:

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During the forecast period, the Asia Pacific region is expected to hold the largest market share, due to rapidly expanding healthcare infrastructure in countries like China, India, and Japan is fueling demand. Governments are investing heavily in hospital modernization and medical device manufacturing. Local production initiatives and import substitution policies are supporting market growth. Adoption of robotic-assisted SPLS and AI-driven diagnostics is accelerating across the region. Strategic collaborations between global manufacturers and regional players are strengthening technology transfer and market penetration.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR. The U.S. and Canada are leading in surgical robotics, smart operating rooms, and AI-enabled diagnostics. Streamlined regulatory pathways are encouraging faster commercialization of next-generation SPLS tools. Hospitals are integrating IoT and analytics to optimize surgical workflows and improve patient outcomes. Strong reimbursement frameworks support widespread adoption of minimally invasive technologies.

Key players in the market

Some of the key players in Single-Port Laparoscopic Surgery Devices Market include Medtronic, Intuitive Surgical, Johnson & Johnson, Olympus Corporation, Karl Storz, Stryker Corporation, Applied Medical, CONMED Corporation, Vicarious Surgical, Titan Medical, Advanced Surgical Concepts, NewView Surgical, Unimax Medical Systems, Sejong Medical, and Zhejiang Geyi Medical.

Key Developments:

In October 2025, Johnson & Johnson MedTech announced the U.S. launch of INHANCE INTACT™, a proprietary complete instrumentation system specifically developed for subscapularis-sparing total shoulder arthroplasty1 (TSA), empowering surgeons to replace a damaged shoulder joint while keeping the shoulder muscle intact.

In October 2025, Olympus Corporation has entered into an international distribution agreement with the medical products business of U.S.-based W. L. Gore & Associates, Inc., a global materials science company that develops innovative products across diverse industries. The agreement allows Olympus to become the exclusive

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international distributor and have distribution rights of the GORE® VIABIL® Biliary Endoprosthesis for endoscopic placement.

Product Types Covered:

- Single-Port Access Devices
- Accessories & Consumables
- Articulating/Curved Laparoscopic Instruments
- Robotic Single-Port Systems
- Endoscopes & Camera Systems
- Energy Devices
- Other Product Types

Applications Covered:

- General surgery
- Bariatric procedures
- Colorectal surgery
- Gynecological procedures
- Urology Surgery
- Thoracic and pediatric applications
- Other Applications

End Users Covered:

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- Hospitals
- Ambulatory Surgical Centers (ASCs)
- Specialty Clinics & Teaching Hospitals
- Home Healthcare
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan

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China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032

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- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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