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Telesurgery Market Forecasts to 2034 – Global Analysis By Surgery Type (Gastrointestinal Surgery, Orthopedic Surgery, Cardiothoracic Surgery and Other Surgery Types), Component, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Telesurgery Market is accounted for $3.3 billion in 2026 and is expected to reach $10.5 billion by 2034 growing at a CAGR of 15.5% during the forecast period. Telesurgery is often referred to as remote surgery or telemedicine surgery, is a type of surgery in which a surgeon operates on a patient who is not present in person. It entails a surgeon operating on a patient who may be in a different city, nation, or even continent by using technology, such as robotics and fast communication networks. Using a station with cameras and sophisticated controls, the surgeon may remotely operate robotic arms and other surgical devices.

Market Dynamics:

Driver:

Rising demand for minimally invasive surgery

The demand for telesurgery is fueled by the preference for minimally invasive procedures, has surged significantly. With advancements in robotics and telecommunication technologies, patients seek remote surgical options that offer reduced scarring, shorter recovery times, and precise interventions. Its ability to merge advanced robotics with expert human control makes it an appealing choice, reflecting the growing trend toward minimally invasive surgical solutions in healthcare.

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Restraint:

Data encryption and security

Despite providing remote medical treatments, telesurgery has issues with encryption and security. Data transmission over networks enhances the possibility of eavesdropping, jeopardizing patient privacy. Surgery accuracy in real time is impacted by delay introduced by encryption. Furthermore, encryption techniques may be open to cyber attacks, increasing the possibility of unwanted access to vital medical operations. Thus, these factors are impeding the market's expansion.

Opportunity:

Improved access to specialized care

Telesurgery revolutionizes specialized care by transcending geographical barriers, granting remote access to expert surgeons for intricate procedures. Utilizing advanced technologies like robotics and high-speed internet, it enables real-time guidance and execution of surgeries from a distance. This democratizes healthcare, ensuring timely, precise interventions regardless of location, ultimately improving outcomes and expanding the reach of specialized care globally. Hence, this is the factor propelling the growth of the market.

Threat:

High costs and accessibility

Telesurgery has severe cost and accessibility barriers. Its implementation is hampered by high initial setup costs for specialized equipment and infrastructure, particularly in places with limited resources. Financial difficulties also persist due to the costs of updating and maintaining the equipment. These obstacles hinder widespread implementation of telesurgery, preventing its potential to revolutionize healthcare delivery, particularly in remote regions.

Covid-19 Impact:

COVID-19 led to restrictions on travel and physical interaction, creating a need for remote healthcare solutions. Telesurgery became more appealing as it allowed surgeons to operate on patients without being in the same location, minimizing the risk

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of exposure to the virus. The pandemic spurred advancements in telecommunication technologies, such as improved internet connectivity, better video conferencing tools, and more sophisticated robotic surgical systems. These advancements helped enhance the feasibility and reliability of telesurgery.

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

The gastrointestinal surgery segment is expected to be the largest during the forecast period. Real-time guidance from experts improves surgical precision, reducing complications and recovery times. Moreover, it facilitates surgical education, enabling training for surgeons globally. Its integration of technology promotes innovation and the development of advanced surgical techniques, potentially revolutionizing gastrointestinal surgery for a more efficient, widespread, and enhanced patient experience.

The hospitals segment is expected to have the highest CAGR during the forecast period

The hospitals segment is expected to have the highest CAGR during the forecast period. They facilitate expert surgeons to perform operations remotely, overcoming geographical barriers and bringing specialized care to remote areas. Telesurgery hospitals optimize resource allocation, improve surgical precision through robotic assistance, and enable real-time consultations, fostering collaborative learning among medical professionals.

Region with largest share:

North America is projected to hold the largest market share during the forecast period. Continuous improvements in robotic systems, high-speed internet, and augmented reality have enhanced the capabilities of telesurgery, allowing surgeons to perform complex procedures with precision from a distance. Both public and private sectors were investing in research and development to further advance technology, fostering market growth.

Region with highest CAGR:

Asia Pacific is projected to hold the highest CAGR over the forecast period owing to ongoing developments in high-definition imaging, and telecommunication technologies. Rising healthcare spending in countries has led to the adoption of advanced medical

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technologies, including telesurgery systems. Some governments in the region have shown interest in promoting advanced healthcare technologies, offering funding and support for the adoption of telesurgery systems.

Key players in the market

Some of the key players in Telesurgery market include THINK Surgical, Intuitive Surgical, Hansen Medical, Mazor Robotics, VirtaMed AG, Zimmer Biomet Robotics, Restoration Robotics, Stryker, iRobot Corporation, Simbionix , VirtaMed AG, Medrobotics, TransEnterix, SRI International and Verb Surgical.

Key Developments:

In January 2023, Zimmer Biomet Holdings, Inc. announced that it has reached a definitive agreement to acquire Embody, Inc., a privately-held medical device company focused on soft tissue healing, for $155 million at closing and up to an additional $120 million subject to achieving future regulatory and commercial milestones over a three year period.

In July 2022, Zimmer Biomet Holdings, Inc announced a first-of-its-kind, three-year agreement to create the HSS/Zimmer Biomet (ZB) Innovation Center for Artificial Intelligence (AI) in Robotic Joint Replacement.

Surgery Types Covered:

- Gastrointestinal Surgery
- Orthopedic Surgery
- Cardiothoracic Surgery
- Other Surgery Types

Components Covered:

- Services
- Instruments & Accessories

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- Robotic Surgical Systems
- Training & Consulting
- Support & Maintenance
- Integration & Deployment
- Other Components

Applications Covered:

- Clinics
- Hospitals
- Ambulatory Surgical Centers
- Other Applications

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK

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- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- 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

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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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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)

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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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