

Surgical Stents Market Poised to Growth USD 21.56 Billion by 2032 with Thriving CAGR of 9.93%

Continuous technological advancements are playing a pivotal role in reshaping the surgical stents market.

US, NY, UNITED STATES, March 17, 2025
/EINPresswire.com/ -- Surgical Stents Market: Trends, Innovations, Growth Drivers, and Segmentation

Introduction

The surgical stents market has witnessed significant growth over the past decade due to the rising prevalence of chronic diseases, advancements in medical technology, and increasing demand for minimally invasive procedures. Stents, which are small tube-like structures inserted into blood vessels or other pathways in the body to keep them open, are essential in cardiovascular, urological, and gastrointestinal procedures. The market is poised for further expansion, driven by continuous innovations, increasing aging populations, and a growing preference for non-invasive surgical methods.

The [Surgical Stents Market valued](#) at USD 11.57 billion in 2023 and is expected to grow from USD 12.19 billion in 2024 to USD 21.56 billion by 2032, reflecting a compound annual growth rate (CAGR) of 9.93% during the forecast period (2024–2032).

A surgical stent is a small, flexible tube made of metal or plastic that is inserted into a vessel or duct to keep it open. Various materials are used in the production of surgical stents, including metal, standard polymer, and biodegradable polymer, each offering unique benefits for different medical applications.

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Market Trends



The surgical stents market is evolving rapidly, with several key trends shaping its trajectory:

Growing Demand for Drug-Eluting Stents (DES): Drug-eluting stents have gained prominence as they reduce the risk of restenosis (re-narrowing of the artery) by releasing medication that prevents excessive tissue growth.

Rising Popularity of Biodegradable Stents: Traditional metallic stents have been widely used, but the introduction of bioresorbable stents made of polymers or magnesium alloys is a game-changer. These stents dissolve over time, reducing complications associated with permanent implants.

Advancements in 3D Printing Technology: 3D printing has revolutionized the production of stents, allowing for patient-specific designs, improved flexibility, and better fit within the body.

Increased Adoption of Minimally Invasive Surgery (MIS): The shift towards minimally invasive techniques, such as percutaneous coronary intervention (PCI) and robotic-assisted surgeries, is boosting the demand for advanced stents.

Rising Incidence of Cardiovascular Diseases (CVDs): The global surge in heart diseases, fueled by sedentary lifestyles, obesity, and smoking, has significantly increased the use of coronary stents.

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Innovations in Surgical Stents

Continuous technological advancements are playing a pivotal role in reshaping the surgical stents market. Some of the notable innovations include:

Next-Generation Polymer Stents: These stents are designed to improve biocompatibility, reduce inflammation, and enhance drug-eluting capabilities.

Nanotechnology-Enabled Stents: Researchers are developing stents with nanoparticle coatings that provide superior anti-inflammatory and anti-thrombotic properties, reducing complications post-surgery.

Smart Stents with Sensors: The integration of biosensors in stents is a groundbreaking innovation, enabling real-time monitoring of blood flow, pressure, and potential blockages.

Hybrid Stents: A combination of different materials, such as polymer-metal hybrid stents, enhances durability, flexibility, and overall performance.

Bioabsorbable Scaffolds: These stents dissolve naturally in the body after fulfilling their function, eliminating the need for a second surgical intervention to remove them.

Growth Drivers

Several factors are driving the growth of the surgical stents market:

Increasing Geriatric Population: The elderly are more susceptible to cardiovascular diseases, which increases the demand for stents.

Rise in Chronic Diseases: A surge in lifestyle-related diseases such as diabetes and obesity is contributing to an increase in vascular complications, fueling the need for stents.

Technological Advancements: The introduction of innovative materials, drug coatings, and biodegradable stents is making procedures safer and more effective.

Government Initiatives and Funding: Many governments and healthcare organizations are investing in research and development to enhance stent technology and accessibility.

Expanding Healthcare Infrastructure in Emerging Markets: Developing countries are witnessing improvements in medical infrastructure and healthcare facilities, leading to higher adoption of surgical stents.

Growing Medical Tourism: Countries like India, Thailand, and Mexico are attracting patients seeking affordable yet high-quality cardiovascular treatments, contributing to market expansion.

Some of the major key player for the market are

STI Laser Industries

Ltd (Israel)

ELLA - CS

r.o. (Czech Republic)

Boston Scientific Corporation (US)

Laserage Technology corporation (US)

amg International GmbH (Germany)

Abbott (US)

Angiocare (Netherlands)

Meril Life Sciences Pvt. Ltd. (India)

Elixir Medical Corporation (US)

Hoffmann-La Roche Ltd. (Switzerland)

Braun Melsungen AG (Germany)

Medtronic (US)
Amaranth Medical, Inc (US)
Arterial Remodeling Technologies (US)
Surgical Stents Market Segmentation Insights

The surgical stents market is categorized based on type, material, application, and end user.

By Type:

Cardiac Stents: Self-expanding stents, balloon-expanding stents, bio-engineered stents, dual therapy stents, artery stents, drug-eluting stents, and others.

Urinary Stents: Open-end stents, double pigtail stents, closed-end stents, and multi-loop stents.

Other Stents: Biliary stents, esophageal stents, prostatic stents, and others.

By Material:

Metal
Standard Polymer
Biodegradable Polymer

By Application:

Cardiac Diseases
Urinary Tract Diseases
Others

By End User:

Hospitals
Clinics
Others

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