

Global Anastomosis Device Market Size Study & Forecast, by Product (Surgical Staplers (Manual, Powered), Surgical Sutures (Absorbable, Non-absorbable, Automated), Surgical Sealants and Adhesives), Application (CVDs, GI Surgeries), End Users and Regional Forecasts 2025-2035

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Abstracts

The Global Anastomosis Device Market is valued at approximately USD 3.52 billion in 2024 and is anticipated to expand with a compound annual growth rate of more than 8.30% during the forecast period 2025-2035. Anastomosis devices, which play a critical role in connecting blood vessels or sections of the gastrointestinal tract during complex surgical procedures, are fast becoming indispensable tools in modern surgical practice. Their growing adoption stems from the increasing burden of cardiovascular diseases (CVDs), rising incidences of gastrointestinal disorders, and the accelerating global shift toward minimally invasive surgeries. Surgeons and healthcare providers are leveraging these devices not only to reduce operative time but also to minimize post-surgical complications, which, in turn, propels the market growth trajectory. Moreover, advancements in product innovation, such as powered staplers and bio-absorbable sutures, are reshaping the surgical landscape by enabling faster recovery, improved precision, and enhanced patient outcomes.

The surge in surgical procedures, particularly cardiac bypass surgeries and gastrointestinal reconstructions, has amplified the demand for technologically sophisticated anastomosis devices. According to the World Health Organization, cardiovascular diseases remain the leading cause of mortality globally, accounting for nearly 18 million deaths annually, while gastrointestinal cancers and disorders continue to rise sharply, driving surgical volumes worldwide. This growing surgical load

underscores the need for safer, quicker, and more reliable closure and connection methods, which has spurred investments in advanced stapling technologies, bio-compatible sealants, and automated suturing systems. Furthermore, healthcare institutions across both developed and emerging economies are embracing minimally invasive procedures, thereby creating an unprecedented demand for compact, user-friendly, and precision-driven anastomosis solutions. Nevertheless, the high cost of advanced devices and the availability of alternative surgical techniques present challenges that could slightly hinder market penetration in cost-sensitive regions.

Regionally, North America emerged as the frontrunner in 2024, capturing a dominant market share owing to its robust healthcare infrastructure, rising adoption of technologically advanced surgical tools, and high prevalence of cardiovascular and gastrointestinal conditions. The United States, in particular, is driving growth with its strong pipeline of innovative device approvals and growing investments in healthcare digitization. Meanwhile, Europe follows closely, supported by increasing government healthcare spending, an expanding geriatric population, and rapid uptake of minimally invasive procedures across Germany, France, and the UK. Asia Pacific, however, is expected to witness the fastest growth during the forecast period, driven by surging healthcare investments, expanding medical tourism in countries such as India, and a growing pool of skilled surgeons adopting next-generation surgical devices. Additionally, the region's expanding patient base suffering from lifestyle-related diseases and cancers provides fertile ground for the adoption of advanced anastomosis devices.

Major market player included in this report are:

Medtronic plc

Johnson & Johnson (Ethicon Inc.)

Intuitive Surgical, Inc.

B. Braun Melsungen AG

Boston Scientific Corporation

Teleflex Incorporated

Smith & Nephew plc

Baxter International Inc.

CONMED Corporation

3M Company

Zimmer Biomet Holdings, Inc.

Cook Medical Inc.

Meril Life Sciences Pvt. Ltd.

Artivion, Inc.

Peters Surgical

Global Anastomosis Device Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries

involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Product:

Surgical Staplers (Manual, Powered)

Surgical Sutures (Absorbable, Non-absorbable, Automated)

Surgical Sealants and Adhesives

By Application:

Cardiovascular Diseases (CVDs)

Gastrointestinal (GI) Surgeries

By End Users:

Hospitals

Ambulatory Surgical Centers

Specialty Clinics

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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