

# **Vascular Graft Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Hemodialysis Access Graft, Endovascular Stent Graft, Peripheral Vascular Graft, Coronary Artery By-pass Graft),**

<https://marketpublishers.com/r/V51F5A2F009AEN.html>

Date: May 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: V51F5A2F009AEN

## **Abstracts**

### **Market Overview**

The Global Vascular Graft Market was valued at USD 1.29 Billion in 2024 and is anticipated to reach USD 1.97 Billion by 2030, growing at a CAGR of 7.31% during the forecast period. The market is witnessing strong growth, primarily due to the increasing prevalence of vascular disorders such as peripheral artery disease (PAD), aneurysms, and coronary artery disease (CAD). These conditions, which involve the narrowing or blockage of blood vessels, can lead to critical complications like stroke, myocardial infarction, and limb ischemia, thereby necessitating surgical interventions using vascular grafts. Additionally, the rising volume of procedures such as coronary artery bypass grafting (CABG) and endovascular aneurysm repair (EVAR) has further supported demand. Vascular grafts play a crucial role in these surgeries by replacing or bypassing damaged blood vessels. Technological progress and product innovation are also advancing the market. For example, in May 2022, UC Davis received a USD 3 million grant from the California Institute for Regenerative Medicine to develop a next-generation vascular graft for hemodialysis patients. Such developments reflect the ongoing commitment of stakeholders to enhance the performance and longevity of grafts, which is expected to significantly boost market growth in the coming years.

### **Key Market Drivers**

#### **Increasing Prevalence of Cardiovascular Diseases**

The global vascular graft market is primarily driven by the escalating incidence of cardiovascular conditions such as coronary artery disease, peripheral arterial disease, and aortic aneurysms. These diseases represent a growing health concern worldwide, largely attributed to sedentary lifestyles, unhealthy diets, and an aging population. As more individuals develop comorbidities like hypertension, diabetes, and obesity, the risk of cardiovascular events increases, fueling the need for surgical interventions involving vascular grafts. This surge in disease burden directly correlates with rising demand for procedures like CABG and EVAR, where vascular grafts are essential for restoring adequate blood flow. As a result, the demand for graft-based solutions is set to grow steadily, supporting overall market expansion.

## Key Market Challenges

### Stringent Regulatory Hurdles

A significant challenge in the vascular graft market lies in the rigorous regulatory landscape governing medical devices. Organizations such as the U.S. FDA and EMA mandate thorough evaluations to ensure the safety and efficacy of vascular grafts, including extensive clinical trials and quality testing. While such standards are crucial for safeguarding public health, they contribute to extended development timelines and higher compliance costs. This can be particularly burdensome for smaller firms with limited resources, ultimately restricting the pace of innovation and delaying patient access to new products. Additionally, the need to navigate varying regulatory frameworks across different countries complicates global product approvals and increases market entry barriers for manufacturers.

## Key Market Trends

### Technological Advancements

Continuous innovation in graft materials and design is a key trend shaping the vascular graft market. Advanced materials, such as bioengineered and tissue-engineered grafts, have significantly enhanced the safety and performance of these products by improving biocompatibility and reducing the risk of complications. Furthermore, grafts featuring anti-thrombogenic and anti-infective coatings are gaining traction, offering better outcomes in terms of long-term patency and infection prevention. These developments not only improve surgical success rates but also enable wider application of vascular grafts in complex procedures. As technologies evolve, next-generation grafts are

expected to play a more prominent role in vascular surgeries, encouraging wider clinical adoption and contributing to market growth.

### Key Market Players

Abbott Laboratories

Braun Melsungen AG

Becton, Dickinson and Company (Bard Peripheral Vascular Inc.)

Cardinal Health (Cordis Corporation)

Cook Medical

Endologix Inc.

Getinge Group

LeMaitre Vascular Inc.

Medtronic PLC

Terumo Medical Corporation

### Report Scope:

In this report, the Global Vascular Graft Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Vascular Graft Market, By Product:

Hemodialysis Access Graft Endovascular Stent Graft

Peripheral Vascular Graft

Coronary Artery By-pass Graft

## Vascular Graft Market, By Drug Application:

Aneurysms

Kidney Failure

Vascular Occlusion

Coronary Artery Diseases

Other Applications

## Vascular Graft Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Italy

Spain

Asia-Pacific

China

India

South Korea

Japan

Australia

South America

Brazil

Argentina

Colombia

Middle East and Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Vascular Graft Market.

## Available Customizations:

Global Vascular Graft Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up

t%li%five).

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