

Global Drug-Eluting Stents Market Forecast: Trends and Growth Outlook Through 2035 | TMR

Drug-eluting stents (DES) are sophisticated medical devices used in the treatment of coronary artery disease (CAD).

WILMINGTON, DE, UNITED STATES, August 18, 2025 /EINPresswire.com/ -- The global [drug-eluting stents \(DES\) market](#) is undergoing a remarkable transformation driven by technological innovation, increasing incidence of cardiovascular diseases, and growing demand for minimally invasive procedures. Drug-eluting stents, designed to release therapeutic agents that prevent arterial re-narrowing, have significantly improved patient outcomes compared to traditional bare-metal stents. As the global population ages and the prevalence of coronary artery disease rises, DES have emerged as a critical component of modern interventional cardiology.



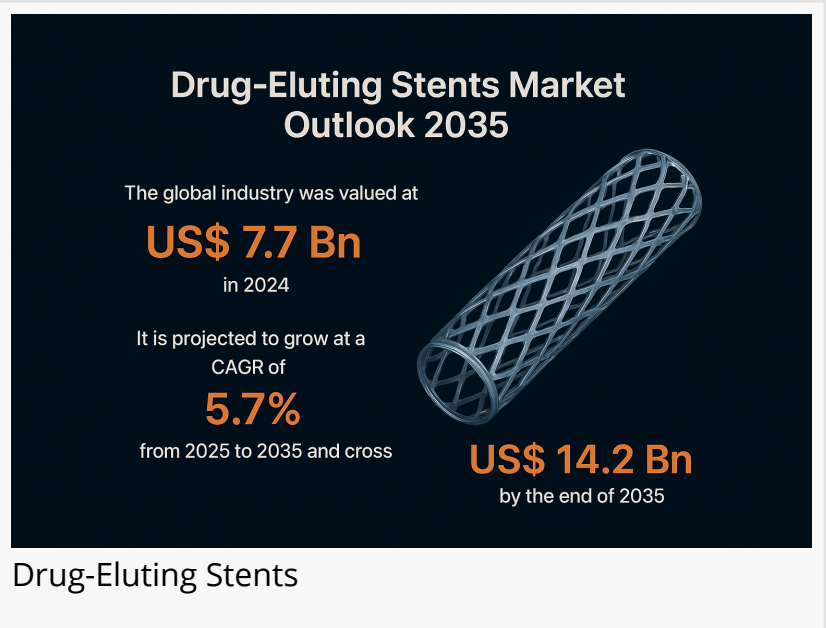
The global drug-eluting stents market has seen healthy growth over the last few years with the help of technological developments and rising prevalence of cardiovascular diseases. "

Transparency Market Research

According to the latest research, the global DES industry was valued at US\$ 7.7 Bn in 2024 and is projected to grow at a CAGR of 5.7% between 2025 and 2035, ultimately crossing US\$ 14.2 Bn by 2035. This consistent growth reflects both the urgent need for advanced cardiovascular treatments and the industry's ability to deliver next-generation stent technologies.

Market Overview

Drug-eluting stents are metallic mesh tubes coated with drugs that are gradually released into



the artery wall to inhibit restenosis (re-narrowing of the vessel). These devices have gained prominence for their ability to significantly reduce the need for repeat procedures compared to bare-metal stents.

The market is expanding due to factors such as:

Rising prevalence of cardiovascular disease worldwide

Technological advances in stent material and drug delivery

Increasing healthcare expenditure in developing economies

Growing demand for minimally invasive procedures

However, challenges such as the high cost of DES, risk of late thrombosis, and long-term patient management continue to require innovation and careful regulation.

Key Drivers of Market Growth

Technological Advancements

Continuous improvements in polymer coatings and drug formulations have enhanced stent safety, biocompatibility, and efficiency.

Development of [biodegradable polymers](#) and fully absorbable stents is reshaping treatment options.

Rising Prevalence of Cardiovascular Diseases (CVDs)

CVDs remain the leading cause of mortality worldwide. Aging populations, sedentary lifestyles, and risk factors such as diabetes and hypertension are fueling DES demand.

Government Policies and Reimbursement Programs

Favorable healthcare policies, subsidies, and reimbursement schemes are supporting DES adoption, particularly in North America and Europe.

Preference for Minimally Invasive Interventions

Patients and healthcare providers are increasingly favoring minimally invasive solutions that reduce hospital stays, recovery times, and long-term costs.

Key Players and Industry Leaders

The DES market is highly competitive, with several global players investing heavily in innovation. Major companies include:

Abbott Laboratories

AlviMedica

B. Braun Melsungen AG

Biosensors International Group, Ltd.

Shandong JW Medical Systems LTD.

Boston Scientific Corporation

Cook Medical Inc.
Elixir Medical Corp.
Lepu Medical Technology (Beijing) Co., Ltd.
Medtronic plc
Eurocor GmbH

OrbusNeich Medical Company Limited
Shanghai MicroPort Medical Co., Ltd.
Sino Medical Sciences Technology Inc.

These companies are focusing on R&D, strategic collaborations, and product launches to strengthen their market position and address emerging clinical needs.

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Recent Developments

June 2024: Elixir Medical's DynamX Sirolimus-Eluting Coronary Bioadaptor System received FDA Breakthrough Device Designation. This bioadaptive implant enhances coronary lumen diameter and reduces plaque progression.

May 2024: Abbott launched the XIENCE Sierra Everolimus-eluting coronary stent system in India, expanding its product portfolio in emerging markets.

Ongoing R&D: Companies are exploring biodegradable stents, dual-drug platforms, and novel polymers to reduce complications and improve patient outcomes.

Market New Opportunities and Challenges

Opportunities

Expansion into emerging markets such as India, China, and Brazil, where the burden of cardiovascular diseases is rising rapidly.

Growth in biodegradable and bioresorbable stents, offering long-term safety benefits.

Integration of digital health and AI technologies to monitor post-procedure outcomes and enhance patient care.

Challenges

High cost of DES limits access in low- and middle-income countries.

Risks of late stent thrombosis and restenosis require continuous monitoring.

Intense regulatory scrutiny and long approval timelines may slow product launches.

Latest Market Trends

Biodegradable Polymers: Increasing use of bioabsorbable coatings that reduce long-term risks associated with permanent implants.

Patient-Specific Solutions: Advances in imaging and data analytics are enabling customized stent therapies tailored to individual patient anatomy and disease profiles.

Combination Therapies: Development of DES with dual-drug platforms to address complex cases and reduce complications.

Regional Expansion: Leading companies are actively entering Asia Pacific and Latin American markets to capitalize on rising healthcare investments.

Future Outlook

The DES market is projected to maintain strong growth through 2035, supported by innovation, increased healthcare spending, and expanding patient awareness. By 2035, the market will cross US\$ 14.2 Bn, reflecting consistent adoption of advanced stent technologies across both developed and emerging economies.

Analysts predict:

Rising demand for minimally invasive cardiovascular procedures will remain the primary growth engine.

Biodegradable DES will gain widespread clinical acceptance, reducing long-term patient risks.

Strategic mergers and acquisitions will reshape the competitive landscape as players consolidate expertise in drug delivery and stent design.

Market Segmentation

By Material

Metal: Stainless Steel, Cobalt-Chromium, Nitinol, Others

Polymer: Non-biodegradable Polymers, Biodegradable Polymers

By Drug

Sirolimus

Paclitaxel

Zotarolimus

Everolimus

Others

By Application

Coronary Artery Disease
Peripheral Artery Disease
Others
By End-User

Hospitals
Ambulatory Surgical Centers
Others

Regional Insights

North America:

The leading region, driven by advanced healthcare infrastructure, high prevalence of CVDs, and strong R&D investments. The U.S. dominates due to supportive reimbursement policies and regulatory approvals.

Europe:

Significant growth supported by government-funded healthcare systems and rising geriatric populations. Countries like Germany, France, and the U.K. are key markets.

Asia Pacific:

Fastest-growing region with increasing healthcare expenditure, large patient base, and growing awareness of cardiovascular diseases. China, India, and Japan are driving adoption.

Latin America:

Expanding healthcare investments and improving access to advanced cardiovascular treatments are boosting market potential.

Middle East & Africa:

Moderate growth due to rising prevalence of CVDs and gradual improvements in healthcare infrastructure, particularly in GCC nations and South Africa.

Why Buy This Report?

Comprehensive Analysis: Covers global market size, forecasts, segmentation, and regional outlook.

In-Depth Company Profiles: Detailed insights into key players' strategies, product portfolios, and financials.

Strategic Guidance: Identifies emerging opportunities, key drivers, and market restraints to guide decision-making.

Trend Insights: Tracks the latest innovations in stent materials, drug delivery systems, and regulatory approvals.

Future Projections: Provides data-driven forecasts up to 2035, enabling long-term strategic planning.

Competitive Benchmarking: Assesses positioning of top players and highlights growth strategies

in the evolving competitive landscape.

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