

# Laser Atherectomy Devices Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Computer Control, Other Types), By Application (Cardiovascular, Peripheral Vascular, Neurovascular), By End-User

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## Abstracts

The Laser Atherectomy Devices Market is valued at USD 1.6 billion in 2025 and is projected to grow at a CAGR of 7.3% to reach USD 3 billion by 2034. The laser atherectomy devices market revolves around medical devices that use laser energy to remove atherosclerotic plaque from blood vessels, especially in cases of peripheral artery disease (PAD). These devices offer a minimally invasive alternative to conventional surgical methods and are particularly effective in treating long or calcified lesions. Laser atherectomy is increasingly favored for its precision, lower risk of vessel damage, and ability to target complex occlusions. As the global prevalence of cardiovascular diseases continues to climb, demand for safe, effective, and recovery-friendly intervention tools like laser atherectomy devices is witnessing a steady upsurge in both developed and emerging healthcare systems. The market saw a boost in adoption across North America and Europe due to rising procedural volumes and clinical evidence supporting long-term efficacy of laser atherectomy over traditional balloon angioplasty. Medical device manufacturers launched next-gen catheters with better deliverability, reduced heat emission, and integrated imaging features. Training initiatives expanded across hospitals and surgical centers to upskill vascular surgeons and interventional cardiologists. Reimbursement policies in the U.S. improved, widening patient access, while emerging economies began incorporating atherectomy technologies into tertiary care institutions. Hybrid procedures combining atherectomy with drug-coated balloons gained popularity, especially for patients with restenosis or recurring blockages. The market will benefit from advancements in fiber-optic laser technology, robotics, and AI-powered procedural guidance. Device miniaturization will

enable broader use in smaller vessels and more anatomically complex cases. Remote procedure support through telepresence and real-time data analytics will drive expansion into rural and underserved areas. Regulatory bodies are expected to accelerate device approvals with improved clinical trial frameworks. As personalized cardiovascular care gains prominence, laser atherectomy will remain an important intervention strategy, particularly for high-risk patients who are ineligible for surgery or have previously failed conventional treatments.

### Key Insights Laser Atherectomy Devices Market

Adoption of hybrid procedures combining laser atherectomy and drug-coated balloon angioplasty is rising in complex PAD cases.

Next-gen devices are featuring improved catheter flexibility and integrated imaging for precise lesion targeting.

Training and simulation platforms are enhancing adoption among interventional radiologists and vascular surgeons.

Growth in outpatient procedures is fueling demand for minimally invasive and rapid-recovery atherectomy tools.

Data integration and AI-driven procedural analytics are improving clinical outcomes and decision-making support.

Increasing global burden of cardiovascular and peripheral artery diseases is expanding the target patient pool.

Clinical preference for minimally invasive procedures is driving demand for safe, effective, and recovery-friendly options.

Favorable reimbursement policies and regulatory approvals are enhancing patient and provider access to laser atherectomy tools.

Technological advancements in laser systems and catheter design are improving efficacy and procedural control.

High costs of laser atherectomy systems and associated consumables limit accessibility in price-sensitive markets.

Lack of specialized training and operator proficiency in some regions hinders widespread procedural adoption.

## Laser Atherectomy Devices Market Segmentation

### By Type

Computer Control

Other Types

### By Application

Cardiovascular

Peripheral Vascular

Neurovascular

### By End-User

Hospitals And Surgical Centers

Ambulatory Care Centers

Others End-Users

### Key Companies Analysed

Boston Scientific Corporation

Terumo Corporation

Medtronic plc

Avinger Inc.

Cardiovascular Systems Inc.

Koninklijke Philips N.V.

AngioDynamics Inc.

Becton

Dickinson and Company

Eximo Medical Ltd.

Cardinal Health

B. Braun SE

C. R. Bard Inc.

Abbott Laboratories

Biotronik SE & Co. KG

Rex Medical

Spectranetics Corporation

Straub Medical AG

Vascular Solutions Inc.

Volcano Corporation

Atrium Medical Corporation

Bayer AG

Biosensors International Group Ltd.

Cook Medical LLC

Cordis Corporation

Covidien plc

Medtronic Vascular

Shockwave Medical Inc.

Acotec Scientific Holdings Ltd.

Advanced Catheter Therapies Inc.

ArioMedica Ltd.

### Laser Atherectomy Devices Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

### Laser Atherectomy Devices Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and

innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Laser Atherectomy Devices market data and outlook to 2034

United States

Canada

Mexico

Europe — Laser Atherectomy Devices market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Laser Atherectomy Devices market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Laser Atherectomy Devices market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Laser Atherectomy Devices market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

## Research Methodology

This study combines primary inputs from industry experts across the Laser Atherectomy Devices value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Laser Atherectomy Devices industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Laser Atherectomy Devices Market Report

Global Laser Atherectomy Devices market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Laser Atherectomy Devices trade, costs, and supply chains

Laser Atherectomy Devices market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Laser Atherectomy Devices market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Laser Atherectomy Devices market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Laser Atherectomy Devices supply chain analysis

Laser Atherectomy Devices trade analysis, Laser Atherectomy Devices market price analysis, and Laser Atherectomy Devices supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Laser Atherectomy Devices market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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