

Plaque Modification And Removal Devices Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Plaque Modification And Removal Devices Market Summary

Introduction

Plaque modification and removal devices are used in minimally invasive procedures to treat cardiovascular diseases (CVDs) by removing or modifying arterial plaque, addressing conditions like coronary artery disease (CAD) and peripheral artery disease (PAD). With CVDs causing 17.9 million deaths annually and affecting 20 million CAD and 8.5 million PAD patients in the U.S., the market is driven by rising disease prevalence and an aging population, projected to reach 2.1 billion over 60 by 2050. The shift toward minimally invasive surgeries and technological advancements, such as intravascular lithotripsy (IVL) and AI-assisted imaging, fuel growth. The global market is projected to reach between USD 1.1 billion and USD 2.0 billion in 2025, with a CAGR of 6.0% to 10.0% through 2030.

Regional Analysis

North America: The U.S. leads due to high CVD prevalence and advanced healthcare infrastructure, with Canada focusing on elderly care.

Europe: Germany, France, and the UK drive demand with robust cardiovascular care systems.

Asia Pacific: China and India see rapid growth due to rising diabetes and CVD rates, while Japan prioritizes precision interventions.

Rest of the World: Brazil enhances vascular care, and the Middle East invests in advanced medical technologies.

Application Analysis

Hospitals: Expected growth of 6.2%-10.2%, driven by complex cardiovascular procedures. Trends focus on IVL and imaging integration.

Ambulatory Surgery Centers: Projected growth of 5.8%-9.8%, linked to outpatient interventions. Developments emphasize portable devices.

Cardiac Catheterization Labs: Anticipated growth of 6.0%-10.0%, tied to specialized procedures. Advances prioritize AI-assisted navigation.

Others: Expected growth of 5.6%-9.6%, covering clinics. Trends lean toward cost-effective solutions.

Type Analysis

Atherectomy Devices: Expected growth of 6.3%-10.3%, driven by plaque removal precision. Trends highlight laser and orbital technologies.

Thrombectomy Devices: Projected growth of 6.1%-10.1%, linked to stroke and DVT treatment. Innovations focus on aspiration efficiency.

Chronic Total Occlusion Devices: Anticipated growth of 5.9%-9.9%, used in complex cases. Advances include specialized guidewires.

Embolic Protection Devices: Expected growth of 5.7%-9.7%, driven by procedural safety. Trends emphasize filter designs.

Key Market Players

Leading companies include Boston Scientific Corporation, known for Rotapro; Medtronic, offering advanced IVL; Abbott, focusing on imaging integration; BD, supporting vascular access; Philips, innovating with IVUS; Stryker, targeting

thrombectomy; AngioDynamics, emphasizing peripheral interventions; Terumo Corporation, advancing catheter systems; Penumbra, known for Lightning systems; REX MEDICAL, offering vascular solutions; ARGON MEDICAL, specializing in embolic protection; and Soundbite Medical Solutions, focusing on novel lithotripsy.

Porter's Five Forces Analysis

? Threat of New Entrants: Moderate, due to high regulatory and R&D barriers, though innovative startups can disrupt.

? Threat of Substitutes: Low, as minimally invasive devices are preferred for CVD treatment.

? Bargaining Power of Buyers: Moderate, with hospitals seeking advanced, cost-effective devices, but clinical needs limit options.

? Bargaining Power of Suppliers: Low, given multiple component suppliers.

? Competitive Rivalry: High, with firms competing on imaging integration, automation, and procedural efficiency.

Market Opportunities and Challenges

Opportunities:

? High CVD prevalence, with 17.9 million deaths annually, drives demand.

? The aging population, projected at 2.1 billion by 2050, boosts intervention needs.

? Minimally invasive trends, with IVL and laser atherectomy, reduce recovery times by 40%.

? Technological advancements, like Penumbra's Lightning and Philips' IVUS, improve procedural success rates.

Challenges:

? High device costs limit adoption in low-income regions.

? Regulatory delays for AI and novel technologies slow market entry.

? Shortages of interventional cardiologists in rural areas constrain growth, as does the need for skilled training in advanced systems.

Market News

? In April 2024, Expanse ICE's ICE Aspiration System received FDA 510(k) clearance, entering the peripheral thrombectomy market.

? In 2024, Surmodics, Inc. obtained FDA 510(k) clearance for its Pounce LP Thrombectomy System.

? In October 2023, Cardio Flow, Inc. received FDA clearance for its FreedomFlow Orbital Atherectomy Platform.

? In March 2023, Penumbra launched the Lightning Bolt 7 arterial thrombectomy system for stroke treatment.

? In September 2024, MicroVention, Inc. rebranded to Terumo Neuro, focusing on neurovascular innovation.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Plaque Modification and Removal Devices Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST PLAQUE MODIFICATION AND REMOVAL DEVICES MARKET IN NORTH AMERICA (2020-2030)

8.1 Plaque Modification and Removal Devices Market Size

8.2 Plaque Modification and Removal Devices Market by End Use

8.3 Competition by Players/Suppliers

8.4 Plaque Modification and Removal Devices Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST PLAQUE MODIFICATION AND REMOVAL DEVICES MARKET IN SOUTH AMERICA (2020-2030)

9.1 Plaque Modification and Removal Devices Market Size

9.2 Plaque Modification and Removal Devices Market by End Use

9.3 Competition by Players/Suppliers

9.4 Plaque Modification and Removal Devices Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST PLAQUE MODIFICATION AND REMOVAL DEVICES MARKET IN ASIA & PACIFIC (2020-2030)

10.1 Plaque Modification and Removal Devices Market Size

10.2 Plaque Modification and Removal Devices Market by End Use

10.3 Competition by Players/Suppliers

10.4 Plaque Modification and Removal Devices Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST PLAQUE MODIFICATION AND REMOVAL DEVICES MARKET IN EUROPE (2020-2030)

- 11.1 Plaque Modification and Removal Devices Market Size
- 11.2 Plaque Modification and Removal Devices Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Plaque Modification and Removal Devices Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST PLAQUE MODIFICATION AND REMOVAL DEVICES MARKET IN MEA (2020-2030)

- 12.1 Plaque Modification and Removal Devices Market Size
- 12.2 Plaque Modification and Removal Devices Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Plaque Modification and Removal Devices Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL PLAQUE MODIFICATION AND REMOVAL DEVICES MARKET (2020-2025)

- 13.1 Plaque Modification and Removal Devices Market Size
- 13.2 Plaque Modification and Removal Devices Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Plaque Modification and Removal Devices Market Size by Type

CHAPTER 14 GLOBAL PLAQUE MODIFICATION AND REMOVAL DEVICES MARKET FORECAST (2025-2030)

- 14.1 Plaque Modification and Removal Devices Market Size Forecast
- 14.2 Plaque Modification and Removal Devices Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Plaque Modification and Removal Devices Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Boston Scientific Corporation
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Plaque Modification and Removal Devices Information
 - 15.1.3 SWOT Analysis of Boston Scientific Corporation
 - 15.1.4 Boston Scientific Corporation Plaque Modification and Removal Devices Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Medtronic
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Plaque Modification and Removal Devices Information
 - 15.2.3 SWOT Analysis of Medtronic
 - 15.2.4 Medtronic Plaque Modification and Removal Devices Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Abbott
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Plaque Modification and Removal Devices Information
 - 15.3.3 SWOT Analysis of Abbott
 - 15.3.4 Abbott Plaque Modification and Removal Devices Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 BD
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Plaque Modification and Removal Devices Information
 - 15.4.3 SWOT Analysis of BD
 - 15.4.4 BD Plaque Modification and Removal Devices Revenue, Gross Margin and

Market Share (2020-2025)

15.5 Phillips

15.5.1 Company Profile

15.5.2 Main Business and Plaque Modification and Removal Devices Information

15.5.3 SWOT Analysis of Phillips

15.5.4 Phillips Plaque Modification and Removal Devices Revenue, Gross Margin and

Market Share (2020-2025)

15.6 Stryker

15.6.1 Company Profile

15.6.2 Main Business and Plaque Modification and Removal Devices Information

15.6.3 SWOT Analysis of Stryker

15.6.4 Stryker Plaque Modification and Removal Devices Revenue, Gross Margin and

Market Share (2020-2025)

15.7 AngioDynamics

15.7.1 Company Profile

15.7.2 Main Business and Plaque Modification and Removal Devices Information

15.7.3 SWOT Analysis of AngioDynamics

15.7.4 AngioDynamics Plaque Modification and Removal Devices Revenue, Gross

Margin and Market Share (2020-2025)

15.8 Terumo Corporation

15.8.1 Company Profile

15.8.2 Main Business and Plaque Modification and Removal Devices Information

15.8.3 SWOT Analysis of Terumo Corporation

15.8.4 Terumo Corporation Plaque Modification and Removal Devices Revenue,

Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms

Table Research Scope of Plaque Modification and Removal Devices Report

Table Data Sources of Plaque Modification and Removal Devices Report

Table Major Assumptions of Plaque Modification and Removal Devices Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Plaque Modification and Removal Devices Picture

Table Plaque Modification and Removal Devices Classification

Table Plaque Modification and Removal Devices Applications

Table Drivers of Plaque Modification and Removal Devices Market

Table Restraints of Plaque Modification and Removal Devices Market

Table Opportunities of Plaque Modification and Removal Devices Market

Table Threats of Plaque Modification and Removal Devices Market
Table Covid-19 Impact For Plaque Modification and Removal Devices Market
Table Raw Materials Suppliers
Table Different Production Methods of Plaque Modification and Removal Devices
Table Cost Structure Analysis of Plaque Modification and Removal Devices
Table Key End Users
Table Latest News of Plaque Modification and Removal Devices Market
Table Merger and Acquisition
Table Planned/Future Project of Plaque Modification and Removal Devices Market
Table Policy of Plaque Modification and Removal Devices Market
Table 2020-2030 North America Plaque Modification and Removal Devices Market Size
Figure 2020-2030 North America Plaque Modification and Removal Devices Market Size and CAGR
Table 2020-2030 North America Plaque Modification and Removal Devices Market Size by Application
Table 2020-2025 North America Plaque Modification and Removal Devices Key Players Revenue
Table 2020-2025 North America Plaque Modification and Removal Devices Key Players Market Share
Table 2020-2030 North America Plaque Modification and Removal Devices Market Size by Type
Table 2020-2030 United States Plaque Modification and Removal Devices Market Size
Table 2020-2030 Canada Plaque Modification and Removal Devices Market Size
Table 2020-2030 Mexico Plaque Modification and Removal Devices Market Size
Table 2020-2030 South America Plaque Modification and Removal Devices Market Size
Figure 2020-2030 South America Plaque Modification and Removal Devices Market Size and CAGR
Table 2020-2030 South America Plaque Modification and Removal Devices Market Size by Application
Table 2020-2025 South America Plaque Modification and Removal Devices Key Players Revenue
Table 2020-2025 South America Plaque Modification and Removal Devices Key Players Market Share
Table 2020-2030 South America Plaque Modification and Removal Devices Market Size by Type
Table 2020-2030 Brazil Plaque Modification and Removal Devices Market Size
Table 2020-2030 Argentina Plaque Modification and Removal Devices Market Size
Table 2020-2030 Chile Plaque Modification and Removal Devices Market Size
Table 2020-2030 Peru Plaque Modification and Removal Devices Market Size

Table 2020-2030 Asia & Pacific Plaque Modification and Removal Devices Market Size
Figure 2020-2030 Asia & Pacific Plaque Modification and Removal Devices Market Size and CAGR

Table 2020-2030 Asia & Pacific Plaque Modification and Removal Devices Market Size by Application

Table 2020-2025 Asia & Pacific Plaque Modification and Removal Devices Key Players Revenue

Table 2020-2025 Asia & Pacific Plaque Modification and Removal Devices Key Players Market Share

Table 2020-2030 Asia & Pacific Plaque Modification and Removal Devices Market Size by Type

Table 2020-2030 China Plaque Modification and Removal Devices Market Size

Table 2020-2030 India Plaque Modification and Removal Devices Market Size

Table 2020-2030 Japan Plaque Modification and Removal Devices Market Size

Table 2020-2030 South Korea Plaque Modification and Removal Devices Market Size

Table 2020-2030 Southeast Asia Plaque Modification and Removal Devices Market Size

Table 2020-2030 Australia Plaque Modification and Removal Devices Market Size

Table 2020-2030 Europe Plaque Modification and Removal Devices Market Size

Figure 2020-2030 Europe Plaque Modification and Removal Devices Market Size and CAGR

Table 2020-2030 Europe Plaque Modification and Removal Devices Market Size by Application

Table 2020-2025 Europe Plaque Modification and Removal Devices Key Players Revenue

Table 2020-2025 Europe Plaque Modification and Removal Devices Key Players Market Share

Table 2020-2030 Europe Plaque Modification and Removal Devices Market Size by Type

Table 2020-2030 Germany Plaque Modification and Removal Devices Market Size

Table 2020-2030 France Plaque Modification and Removal Devices Market Size

Table 2020-2030 United Kingdom Plaque Modification and Removal Devices Market Size

Table 2020-2030 Italy Plaque Modification and Removal Devices Market Size

Table 2020-2030 Spain Plaque Modification and Removal Devices Market Size

Table 2020-2030 Belgium Plaque Modification and Removal Devices Market Size

Table 2020-2030 Netherlands Plaque Modification and Removal Devices Market Size

Table 2020-2030 Austria Plaque Modification and Removal Devices Market Size

Table 2020-2030 Poland Plaque Modification and Removal Devices Market Size

Table 2020-2030 Russia Plaque Modification and Removal Devices Market Size

Table 2020-2030 MEA Plaque Modification and Removal Devices Market Size

Figure 2020-2030 MEA Plaque Modification and Removal Devices Market Size and CAGR

Table 2020-2030 MEA Plaque Modification and Removal Devices Market Size by Application

Table 2020-2025 MEA Plaque Modification and Removal Devices Key Players Revenue

Table 2020-2025 MEA Plaque Modification and Removal Devices Key Players Market Share

Table 2020-2030 MEA Plaque Modification and Removal Devices Market Size by Type

Table 2020-2030 Egypt Plaque Modification and Removal Devices Market Size

Table 2020-2030 Israel Plaque Modification and Removal Devices Market Size

Table 2020-2030 South Africa Plaque Modification and Removal Devices Market Size

Table 2020-2030 Gulf Cooperation Council Countries Plaque Modification and Removal Devices Market Size

Table 2020-2030 Turkey Plaque Modification and Removal Devices Market Size

Table 2020-2025 Global Plaque Modification and Removal Devices Market Size by Region

Table 2020-2025 Global Plaque Modification and Removal Devices Market Size Share by Region

Table 2020-2025 Global Plaque Modification and Removal Devices Market Size by Application

Table 2020-2025 Global Plaque Modification and Removal Devices Market Share by Application

Table 2020-2025 Global Plaque Modification and Removal Devices Key Vendors Revenue

Figure 2020-2025 Global Plaque Modification and Removal Devices Market Size and Growth Rate

Table 2020-2025 Global Plaque Modification and Removal Devices Key Vendors Market Share

Table 2020-2025 Global Plaque Modification and Removal Devices Market Size by Type

Table 2020-2025 Global Plaque Modification and Removal Devices Market Share by Type

Table 2025-2030 Global Plaque Modification and Removal Devices Market Size by Region

Table 2025-2030 Global Plaque Modification and Removal Devices Market Size Share by Region

Table 2025-2030 Global Plaque Modification and Removal Devices Market Size by

Application

Table 2025-2030 Global Plaque Modification and Removal Devices Market Share by Application

Table 2025-2030 Global Plaque Modification and Removal Devices Key Vendors Revenue

Figure 2025-2030 Global Plaque Modification and Removal Devices Market Size and Growth Rate

Table 2025-2030 Global Plaque Modification and Removal Devices Key Vendors Market Share

Table 2025-2030 Global Plaque Modification and Removal Devices Market Size by Type

Table 2025-2030 Plaque Modification and Removal Devices Global Market Share by Type

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