

Atherectomy Devices Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

<https://marketpublishers.com/r/A196A3FDF599EN.html>

Date: January 2025

Pages: 145

Price: US\$ 4,850.00 (Single User License)

ID: A196A3FDF599EN

Abstracts

The Global Atherectomy Devices Market reached USD 794.6 million in 2024 and is projected to grow at a CAGR of 6.8% between 2025 and 2034. The rising prevalence of peripheral artery disease (PAD) and coronary artery disease (CAD) is fueling demand for advanced treatment solutions. As aging populations increase and sedentary lifestyles become more common, cases of diabetes and obesity are surging, further driving the need for minimally invasive procedures. Healthcare providers are seeking precision-driven solutions to enhance plaque removal while minimizing complications, making atherectomy devices an essential tool in cardiovascular treatment.

The increasing shift toward patient-centric healthcare is pushing hospitals and medical centers to adopt technologies that improve clinical outcomes. Minimally invasive atherectomy procedures offer faster recovery times, reduced hospital stays, and lower risks of post-surgical complications compared to traditional treatment methods. This shift is encouraging higher adoption rates among physicians and patients. Continuous technological advancements, regulatory approvals, and ongoing clinical trials are strengthening confidence in these devices, paving the way for their broader implementation.

Market expansion is also being driven by growing investment in research and development. Companies are introducing innovative atherectomy systems that provide superior efficiency, precision, and safety. Automated and AI-integrated devices are emerging, allowing clinicians to optimize treatment approaches while reducing procedure times. Favorable reimbursement policies and an increasing number of outpatient cardiovascular procedures are further propelling market growth. As medical institutions prioritize cost-effective solutions that deliver high success rates, atherectomy

devices continue to gain momentum.

By product type, the market is segmented into orbital, laser, directional, and rotational atherectomy devices. Orbital atherectomy devices are set to experience substantial growth, with market value expected to reach USD 468.2 million by 2034 at a CAGR of 6.6%. These devices improve procedural accuracy by utilizing a high-speed spinning crown or burr to remove plaque while preserving arterial integrity. Their consistent success in treating both peripheral and coronary arteries has positioned them as a preferred choice among healthcare professionals managing complex cases. As hospitals and surgical centers prioritize innovative and efficient treatment options, the demand for orbital atherectomy devices continues to rise.

Based on application, the market is divided into peripheral vascular and coronary procedures. The peripheral vascular segment is expected to expand significantly, projected to reach USD 1.1 billion by 2034 at a CAGR of 6.3%. Peripheral artery disease severely impacts mobility and quality of life, creating an urgent need for effective treatment alternatives. Atherectomy procedures offer notable advantages, including reduced recovery periods, fewer complications, and shorter hospital stays compared to traditional surgery. As awareness of these benefits grows, more patients and healthcare providers are opting for minimally invasive interventions, boosting the demand for atherectomy devices.

The U.S. atherectomy devices market accounted for USD 432.6 million in 2024 and is anticipated to grow at a CAGR of 6.2% from 2025 to 2034. The country's increasing burden of cardiovascular diseases, including PAD and CAD, is driving demand for advanced treatment solutions. A growing elderly population, coupled with high obesity and diabetes rates, is further accelerating market growth. Medical institutions are increasingly adopting cutting-edge atherectomy devices that enhance procedural precision, improve patient safety, and ensure faster recoveries. As the demand for minimally invasive cardiovascular procedures rises, the U.S. market is expected to maintain its dominant position in the global landscape.

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