

Microtome Market to Reach \$263.2 Million, Globally, by 2033 at 6.2% CAGR: Allied Market Research

The microtome market size was valued at \$144.5 million in 2023, and is projected to reach \$263.2 million by 2033, growing at a CAGR of 6.2% from 2024 to 2033.



PORTLAND, OR, UNITED STATES, December 18, 2024 /EINPresswire.com/ -- Allied Market Research published a report, titled, "Microtome Market by Product (Microtome Devices and Accessories), Technology (Fully Automated, Semi-Automated and Manual): Global Opportunity Analysis and Industry Forecast, 2025-2033". According to the report, the microtome market was valued at \$144.5 million in 2024, and is estimated to reach \$263.2 million by 2033, growing at a CAGR of 6.2% from 2024 to 2033.

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The increasing demand for microtomes is attributed to their pivotal role in facilitating precise and varied cuts necessary for microscopic analysis. Technological advancements, such as laser microtomes, offer finer cuts while ensuring sample safety. Microtomes cater to diverse needs with sliding, rotation, freezing, ultramicrotome, and laser variants. Their ability to adjust thickness, utilize different blade materials, and accommodate various sample types make them indispensable tools for histology, pathology, and research laboratories.

Prime Determinants of Growth

The microtome market share is increasing rapidly as microtome plays a vital role in tissue processing in research & clinical settings. For instance, rotary and cryostat microtomes are ideal for thin sectioning in electron or brightfield microscopy, while vibrating microtomes are more suitable for volumetric imaging. For large samples like brains or biopsies, megatome offers automatic precision sectioning. However, different types of microtomes have different drawbacks. For instance, rotating microtomes offer precision and thin sectioning capabilities, yet their complexity results in higher costs and difficulty in cutting certain types of tissues, such as those included in celloidin, gelatin, or propylene glycol. Fully automated microtomes present vast opportunities for revolutionizing tissue sectioning processes. By offering hands-free operation and enhanced precision, these microtomes streamline workflows and ensure consistent, high-

quality sections. Integrated imaging capabilities enable real-time monitoring and documentation, facilitating quality control. Customizable protocols cater to specific research or diagnostic needs, enhancing flexibility and reproducibility. These factors are anticipated to have positive impact on microtome market forecast.

Based on product, the accessories sub-segment is expected to grow the fastest during the forecast period

Microtome accessories are popular due to their ability to enhance the functionality and versatility of microtome devices. Some common accessories include disposable blades, blade holders, specimen holders, anti-roll plates, and blade sharpeners. Disposable blades ensure consistent cutting performance and minimize contamination risks, while blade holders securely hold blades in place during operation. Specimen holders aid in positioning and stabilizing tissue samples for precise sectioning. These accessories optimize microtome performance, improving accuracy and efficiency in tissue sectioning for various research and diagnostic applications.

Based on technology, the fully automated sub-segment is expected to grow the fastest during the forecast period

Fully automated microtome devices like the Leica RM2255 and the Thermo Scientific™ HM 355S are popular choices in modern laboratories. These devices offer advanced automation features that streamline the tissue sectioning process from start to finish. With programmable settings for precise cutting thickness and speed, they ensure consistent results across multiple samples. Their integrated specimen orientation systems enable efficient handling of diverse tissue types. Additionally, intuitive user interfaces and ergonomic designs enhance usability and reduce operator fatigue.

Based on region, Asia-Pacific is predicted to show the fastest growth during the forecast period

Asia-Pacific countries exhibit high demand for microtomes due to several factors. Significant advancements in healthcare infrastructure, research facilities, and academic institutions in this region have led to an increase in demand for microtomes. In addition, the surge in biomedical research, clinical diagnostics, and educational activities drives the need for precise tissue sectioning tools like microtomes. Leading countries in the region widely using microtome devices include Japan, China, South Korea, and India. For instance, South Korea's leading biomedical research and clinical diagnostics facilities, including Seoul National University Hospital, Korea University Medical Center, and Samsung Medical Center, utilize microtomes in diverse research areas such as stem cell biology, immunology, and precision medicine. These factors are anticipated to boost the microtome market trends in this region.

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<https://www.alliedmarketresearch.com/microtome-market/purchase-options>

Major Key Players in the Microtome Industry -

Diapath S.P.A.

Sakura Finetek Europe B.V.

Leica Biosystems Nussloch GmbH

AGD Biomedicals

Thermo Fisher Scientific

MEDITE GmbH

Boeckeler Instruments

Alltion, S.M.

Scientific Instruments Pvt. Ltd.

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These players have adopted different strategies such as new product launches, collaborations, expansion, joint ventures, agreements, and others to increase their microtome market share and maintain dominant shares in different regions.

Microtome Industry Developments

In November 2023, cutting-edge microtome automation revolutionized histology laboratories. The advancements in microtome automation are reshaping histology labs and optimizing tissue sectioning for precise diagnostic analysis. These state-of-the-art systems, equipped with sophisticated robotics and AI integration, promise unparalleled consistency and efficiency. The latest models, like the AS-410M from Dainippon Seiki and Sakura's Tissue-Tek AutoSection[®], ensure uniform, high-quality cuts while streamlining workflow. Collaborative robots such as Sakura's Tissue-Tek SmartConnect[®] further enhance productivity, seamlessly coordinating tasks alongside lab technicians. With reduced human error and enhanced processing speeds, these cutting-edge microtomes herald a new era of histopathological excellence and patient care.

The report provides a detailed analysis of these key players and global microtome market size. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to showcase the competitive scenario.

Microtome Market - <https://www.alliedmarketresearch.com/microtome-market-A11343>

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Frequently Asked Questions?

Q1. What are the upcoming trends of Microtome Market in the globe?

Q2. Which is the largest regional market for Microtome?

Q3. What is the estimated industry size of Microtome?

Q4. Which are the top companies to hold the market share in Microtome?

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OTC Artificial Tears Market - <https://www.alliedmarketresearch.com/otc-artificial-tears-market-A11343>

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various research data tables and confirms utmost accuracy in our market forecasting. Each and every us companies and this helps us in digging out market data that helps us generate accurate y data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement

methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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