

## **Microtome Market Report and Forecast 2025-2034**

Market Report | 2025-08-11 | 172 pages | EMR Inc.

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### **Report description:**

The global microtome market reached approximately USD 66.36 Million in 2024. The market is projected to grow at a CAGR of 5.20% between 2025 and 2034, reaching a value of around USD 110.17 Million by 2034.

#### Microtome Market Growth Rate

Microtome refers to an instrument that is used to cut thin sections of materials to enable their examination under a microscope. It typically utilises glass, steel, or diamond blades to produce the optimal thickness of sections. It is used as an alternative to electropolishing, and ion milling and is utilised in various applications such as spectroscopy and histology.

The development of microtomes with liquid-emitted displays (LED) that can surge the contrast between paraffin and specimens without warming the block is aiding the microtome market growth. As advanced microtomes can enable professionals to locate the tissue effectively, their demand is increasing. Moreover, various microtomes can prevent the cutting through a previously sectioned block and a small biopsy by effectively locating tissues which is also projected to support the market growth in the coming years. The integration of features, such as brake indicators, sliding dispense, and blade guards, among others, to reduce the risk of accidental injuries is also projected to invigorate the market growth.

#### Key Trends and Developments

Innovations in the design; emphasis on safety and ergonomics; growth in digital pathology; expansion of cryosectioning; and integration of advanced technologies are the major trends impacting the microtome market expansion

August 26th, 2022

Clarapath Inc, a US-based biotechnology company, announced the launch of an instrument called the SectionStar to automate the microtome process in pathology.

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August 10th, 2023

The Georgetown Public Hospital Corporation (GPHC) announced a significant upgrade to its Pathology Department through the procurement of a cutting-edge microtome machine and a sophisticated auto tissue processor.

November 8th, 2021

MIECO announced the launch of a new handheld microtome, the QCSMS, designed to facilitate rapid and effortless cross-sectioning of various materials using any sharp razor blade.

Innovations in the design

Innovations in the designs of microtomes to enhance their productivity and efficiency are expected to contribute to the growth of the microtome market significantly.

Emphasis on safety and ergonomics

With the rising awareness of workplace safety, there is a trend towards designing microtomes that are ergonomically friendly and include safety features like blade guards.

Growth in digital pathology

The expansion of digital pathology and whole slide imaging (WSI) technologies fuels the need for microtomes that can provide high-quality sections suitable for digital scanning.

Expansion of cryosectioning

Cryomicrotomes (cryostats) are seeing increased use not only in traditional research settings but also in clinical diagnostics, particularly for rapid intraoperative tissue analysis.

Integration of advanced technologies

Microtomes are increasingly incorporating advanced technologies such as touchscreen controls, programmable sectioning parameters, and automated specimen advances.

Microtome Market Trends

The integration of advanced technologies into microtomes represents a significant shift towards enhancing precision, efficiency, and user-friendliness in the preparation of tissue sections for microscopic examination. For instance, the incorporation of touchscreen interfaces on microtomes makes the devices more intuitive and easier to use as the operators can quickly adjust settings, select sectioning parameters, and monitor the status of the device through a graphical interface. Moreover, programmable sectioning parameters allow users to preset specific parameters for sectioning, including the thickness of each cut, the speed of the blade, and the number of sections needed.

The growing deployment of microtome machines in various end-use sectors is expected to aid the microtome market development, The Georgetown Public Hospital Corporation (GPHC) made an announcement in August 2023 about acquiring a

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state-of-the-art microtome machine and an advanced auto tissue processor marks a significant improvement in its Pathology Department's capabilities. The procurement of these advanced tools equips the Pathology Department to handle more complex and challenging cases.

#### Microtome Industry Segmentation

"Microtome Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

##### Market Breakup by Product

- Microtome Devices
  - ??- Rotary Microtome
  - ??- Vibrating Microtome
  - ??- Others

- Accessories

##### Market Breakup by Technology

- Fully Automated
- Semi- Automated
- Manual

##### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

##### Microtome Market Share

Microtome devices account for a major share due to their growing usage in microscopy applications

Microtome devices hold a large market share as these devices are crucial in laboratories for preparing samples by cutting extremely thin slices of material, known as sections. These devices are essential for microscopy applications, allowing researchers and healthcare professionals to examine tissues at the cellular level to diagnose diseases, conduct research, and develop treatments. The demand for high precision and quality in sample preparation drives the need for advanced microtome devices, contributing to their dominant market share. The diversity of microtomes, including rotary, cryostat, and vibratome microtomes, tailored to specific types of tissue processing and applications, also supports the significant market presence of this segment.

The accessories segment is anticipated to witness robust growth in the microtome market in the forecast period. Accessories for microtomes include blades, holders, cassettes, and other consumables and maintenance tools required for the operation and upkeep of microtome devices. The recurring need for accessories due to wear and tear and the consumable nature of items like blades ensure a steady demand of this segment.

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Fully automated microtomes maintain their dominance in the market as they can perform repetitive and tedious tasks and save time

Fully automated microtomes occupy a substantial share of the microtome market as they can eliminate the requirement for manual labour for repetitive and monotonous tasks. Moreover, they can aid in producing reliable results, thus, boosting time and cost efficiency while enabling more recuts and blocks which, in turn, is further surging the demand for a microtome. These devices also reduce the manual effort required for slicing, making them user-friendly and reducing the risk of repetitive strain injuries. Automation speeds up the preparation process, making it easier to handle a high volume of samples, which is particularly beneficial in busy clinical and research laboratories.

The semi-automated segment is expected to witness sizeable growth in the coming years. Semi-automated microtomes allow users to adjust the cutting process manually when needed, providing flexibility for handling various types of specimens. These devices are also generally less expensive than fully automated ones, making them a more accessible option for smaller laboratories or those with budget constraints.

### Microtome Market Analysis by Region

The demand for microtomes in North America is influenced by several factors that reflect the region's advanced healthcare infrastructure, and robust research and development ecosystem. North America, particularly the United States and Canada, has a highly developed healthcare system with a significant focus on diagnostic services, pathology, and medical research. The need for precise and reliable tissue sectioning in diagnostic procedures drives the demand for high-quality microtomes. The region is also a global leader in biomedical research, including drug development, cancer research, and regenerative medicine. Microtomes are essential tools in histology labs where tissues are studied at the microscopic level to understand disease mechanisms and test new treatments.

The microtome market in the Asia Pacific is anticipated to grow significantly over the coming years due to the increasing number of laboratories in developing countries owing to the introduction of various favourable initiatives. For instance, the Kerala government in India launched a mini and super fab lab, a larger version of the technical prototyping platforms for design fabrication technology, in collaboration with the Massachusetts Institute of Technology (MIT) in January 2020.

### Leading Companies in Microtome Market

The market players are entering into partnerships and collaborations with other companies, academic institutions, and research organisations to gain a competitive edge in the microtome market

#### LLS ROWIAK LaserLabSolutions GmbH

LLS ROWIAK LaserLabSolutions GmbH specialises in developing and manufacturing laser-based systems for scientific and medical applications and is known for its innovative approaches to tissue processing, microscopy, and precision cutting solutions.

#### Leica Biosystems Nussloch GmbH

Leica Biosystems Nussloch GmbH is part of the global Leica Biosystems network, which is dedicated to advancing cancer diagnostics by offering comprehensive solutions that cover the entire laboratory workflow.

#### Sakura Finetek Europe B.V.

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Sakura Finetek Europe B.V. specialises in the manufacturing and distribution of histopathology and cytology equipment and consumables and their product range includes tissue processors, embedding stations, microtomes, and cryostats.

MEDITE Medical GmbH

MEDITE Medical GmbH is a manufacturer of a wide array of equipment and supplies for histology, pathology, and cytology laboratories.

Other market players include SLEE Medical GmbH, among others. Companies are focusing on developing new microtomes and enhancing existing models with advanced features such as increased automation, improved safety measures, and greater precision. Innovations also include ergonomic designs to reduce user fatigue and the integration of digital interfaces for easier operation.

## **Table of Contents:**

1	Executive Summary
1.1	Market Size 2024-2025
1.2	Market Growth 2025(F)-2034(F)
1.3	Key Demand Drivers
1.4	Key Players and Competitive Structure
1.5	Industry Best Practices
1.6	Recent Trends and Developments
1.7	Industry Outlook
2	Market Overview and Stakeholder Insights
2.1	Market Trends
2.2	Key Verticals
2.3	Key Regions
2.4	Supplier Power
2.5	Buyer Power
2.6	Key Market Opportunities and Risks
2.7	Key Initiatives by Stakeholders
3	Economic Summary
3.1	GDP Outlook
3.2	GDP Per Capita Growth
3.3	Inflation Trends
3.4	Democracy Index
3.5	Gross Public Debt Ratios
3.6	Balance of Payment (BoP) Position
3.7	Population Outlook
3.8	Urbanisation Trends
4	Country Risk Profiles
4.1	Country Risk
4.2	Business Climate
5	Global Microtome Market Analysis
5.1	Key Industry Highlights
5.2	Global Microtome Historical Market (2018-2024)

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### 5.3 Global Microtome Market Forecast (2025-2034)

#### 5.4 Global Microtome Market by Product

##### 5.4.1 Microtome Devices

###### 5.4.1.1 Historical Trend (2018-2024)

###### 5.4.1.2 Forecast Trend (2025-2034)

###### 5.4.1.3 Breakup by Type

###### 5.4.1.3.1 Rotary Microtome

###### 5.4.1.3.1.1 Historical Trend (2018-2024)

###### 5.4.1.3.1.2 Forecast Trend (2025-2034)

###### 5.4.1.3.2 Vibrating Microtome

###### 5.4.1.3.2.1 Historical Trend (2018-2024)

###### 5.4.1.3.2.2 Forecast Trend (2025-2034)

###### 5.4.1.3.3 Others

##### 5.4.2 Accessories

###### 5.4.2.1 Historical Trend (2018-2024)

###### 5.4.2.2 Forecast Trend (2025-2034)

#### 5.5 Global Microtome Market by Technology

##### 5.5.1 Fully Automated

###### 5.5.1.1 Historical Trend (2018-2024)

###### 5.5.1.2 Forecast Trend (2025-2034)

##### 5.5.2 Semi- Automated

###### 5.5.2.1 Historical Trend (2018-2024)

###### 5.5.2.2 Forecast Trend (2025-2034)

##### 5.5.3 Manual

###### 5.5.3.1 Historical Trend (2018-2024)

###### 5.5.3.2 Forecast Trend (2025-2034)

#### 5.6 Global Microtome Market by Region

##### 5.6.1 North America

###### 5.6.1.1 Historical Trend (2018-2024)

###### 5.6.1.2 Forecast Trend (2025-2034)

##### 5.6.2 Europe

###### 5.6.2.1 Historical Trend (2018-2024)

###### 5.6.2.2 Forecast Trend (2025-2034)

##### 5.6.3 Asia Pacific

###### 5.6.3.1 Historical Trend (2018-2024)

###### 5.6.3.2 Forecast Trend (2025-2034)

##### 5.6.4 Latin America

###### 5.6.4.1 Historical Trend (2018-2024)

###### 5.6.4.2 Forecast Trend (2025-2034)

##### 5.6.5 Middle East and Africa

###### 5.6.5.1 Historical Trend (2018-2024)

###### 5.6.5.2 Forecast Trend (2025-2034)

#### 6 North America Microtome Market Analysis

##### 6.1 United States of America

###### 6.1.1 Historical Trend (2018-2024)

###### 6.1.2 Forecast Trend (2025-2034)

##### 6.2 Canada

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6.2.1 Historical Trend (2018-2024)	
6.2.2 Forecast Trend (2025-2034)	
7 Europe Microtome Market Analysis	
7.1 United Kingdom	
7.1.1 Historical Trend (2018-2024)	
7.1.2 Forecast Trend (2025-2034)	
7.2 Germany	
7.2.1 Historical Trend (2018-2024)	
7.2.2 Forecast Trend (2025-2034)	
7.3 France	
7.3.1 Historical Trend (2018-2024)	
7.3.2 Forecast Trend (2025-2034)	
7.4 Italy	
7.4.1 Historical Trend (2018-2024)	
7.4.2 Forecast Trend (2025-2034)	
7.5 Others	
8 Asia Pacific Microtome Market Analysis	
8.1 China	
8.1.1 Historical Trend (2018-2024)	
8.1.2 Forecast Trend (2025-2034)	
8.2 Japan	
8.2.1 Historical Trend (2018-2024)	
8.2.2 Forecast Trend (2025-2034)	
8.3 India	
8.3.1 Historical Trend (2018-2024)	
8.3.2 Forecast Trend (2025-2034)	
8.4 ASEAN	
8.4.1 Historical Trend (2018-2024)	
8.4.2 Forecast Trend (2025-2034)	
8.5 Australia	
8.5.1 Historical Trend (2018-2024)	
8.5.2 Forecast Trend (2025-2034)	
8.6 Others	
9 Latin America Microtome Market Analysis	
9.1 Brazil	
9.1.1 Historical Trend (2018-2024)	
9.1.2 Forecast Trend (2025-2034)	
9.2 Argentina	
9.2.1 Historical Trend (2018-2024)	
9.2.2 Forecast Trend (2025-2034)	
9.3 Mexico	
9.3.1 Historical Trend (2018-2024)	
9.3.2 Forecast Trend (2025-2034)	
9.4 Others	
10 Middle East and Africa Microtome Market Analysis	
10.1 Saudi Arabia	
10.1.1 Historical Trend (2018-2024)	

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- 10.1.2 Forecast Trend (2025-2034)
- 10.2 United Arab Emirates
  - 10.2.1 Historical Trend (2018-2024)
  - 10.2.2 Forecast Trend (2025-2034)
- 10.3 Nigeria
  - 10.3.1 Historical Trend (2018-2024)
  - 10.3.2 Forecast Trend (2025-2034)
- 10.4 South Africa
  - 10.4.1 Historical Trend (2018-2024)
  - 10.4.2 Forecast Trend (2025-2034)
- 10.5 Others
- 11 Market Dynamics
  - 11.1 SWOT Analysis
    - 11.1.1 Strengths
    - 11.1.2 Weaknesses
    - 11.1.3 Opportunities
    - 11.1.4 Threats
  - 11.2 Porter's Five Forces Analysis
    - 11.2.1 Supplier's Power
    - 11.2.2 Buyer's Power
    - 11.2.3 Threat of New Entrants
    - 11.2.4 Degree of Rivalry
    - 11.2.5 Threat of Substitutes
  - 11.3 Key Indicators for Demand
  - 11.4 Key Indicators for Price
- 12 Value Chain Analysis
- 13 Trade Data Analysis
  - 13.1 Major Importing Countries
    - 13.1.1 By Volume
    - 13.1.2 By Value
  - 13.2 Major Exporting Countries
    - 13.2.1 By Volume
    - 13.2.2 By Value
- 14 Competitive Landscape
  - 14.1 Supplier Selection
  - 14.2 Key Global Players
  - 14.3 Key Regional Players
  - 14.4 Key Player Strategies
  - 14.5 Company Profiles
    - 14.5.1 LLS ROWIAK LaserLabSolutions GmbH
      - 14.5.1.1 Company Overview
      - 14.5.1.2 Product Portfolio
      - 14.5.1.3 Demographic Reach and Achievements
      - 14.5.1.4 Certifications
    - 14.5.2 Leica Biosystems Nussloch GmbH
      - 14.5.2.1 Company Overview
      - 14.5.2.2 Product Portfolio

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- 14.5.2.3 Demographic Reach and Achievements
- 14.5.2.4 Certifications
- 14.5.3 Sakura Finetek Europe B.V.
- 14.5.3.1 Company Overview
- 14.5.3.2 Product Portfolio
- 14.5.3.3 Demographic Reach and Achievements
- 14.5.3.4 Certifications
- 14.5.4 MEDITE Medical GmbH
- 14.5.4.1 Company Overview
- 14.5.4.2 Product Portfolio
- 14.5.4.3 Demographic Reach and Achievements
- 14.5.4.4 Certifications
- 14.5.5 SLEE Medical GmbH
- 14.5.5.1 Company Overview
- 14.5.5.2 Product Portfolio
- 14.5.5.3 Demographic Reach and Achievements
- 14.5.5.4 Certifications
- 14.5.6 Others

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