

# **Electron Microscopy and Sample Preparation Market with Covid-19 impact By Type (SEM and TEM), Application (Semiconductor, Life Sciences, Material Science), Product, End-user Industry, and Geography-Global Forecast to 2026**

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## **Abstracts**

The electron microscopy and sample preparation market size is expected to grow from USD 2.2 billion in 2021 to USD 3.5 billion by 2026, at a CAGR of 9.5%. Favorable funding scenario for R&D in microscopy and growth opportunities in emerging markets are the key factors driving the growth of the electron microscopy and sample preparation market.

“Scanning Electron Microscope to hold largest size of Electron microscopy and sample preparation market in 2021”

Scanning electron microscopes (SEMs) use a focused beam of high-energy electrons to generate a variety of signals at the surface of solid specimens. SEMs can provide magnification of up to 100,000x. These microscopes produce a high depth of field and high-resolution (less resolution as compared to TEMs) and 3-dimensional images of topographical, morphological, and compositional information of objects. Hence, they are used as essential research tools in life sciences, gemology, medical and forensic sciences, and metallurgy.

“Industries end-user segment to hold largest share of Electron microscopy and sample preparation market in 2021”

The scope of the industries segment comprises pharmaceutical & biotechnology, semiconductor & electronics, textiles, mining & material science, and natural resources

(oil & gas) industries. The electronics industry uses electron microscopes for high-resolution imaging in the development and manufacturing processes of semiconductors and other electronics. Other industries that commonly use electron microscopes as a part of their production process include aeronautics, automotive, apparel, and pharmaceutical. Electron microscope can also be applied in industrial failure analysis and process control of diverse industries.

“APAC to grow at highest CAGR during the forecast period”

In terms of value, APAC to grow at highest CAGR during the forecast period. The APAC electron microscopy and sample preparation market, particularly in China, Japan, and India, is expected to witness high growth in the next 5 years. Factors such as the rising R&D funding for microscopy research, increasing application of correlative microscopy in life science and nanotechnology research, establishment of collaboration centers for microscopy research, and the low material cost and availability of low-cost skilled labor for OEMs are expected to drive market growth in the APAC during the forecast period.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts in the Electron microscopy and sample preparation market space. The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1= 55%, Tier 2 = 30%, and Tier 3 =15%

By Designation: C-level Executives =50%, Directors =25%, Others = 25%

By Region: North America = 35%, Europe = 25%, APAC = 30%, and RoW = 10%

Carl Zeiss (Germany), Danaher (US), Thomas Fisher Scientific (US), Intel (US), Nikon (Japan), Bruker (US), Olympus (Japan), Oxford Instruments (UK), Jeol (Japan), Hitachi High-Technologies (Japan), Hlrox (Japan) Microptik (Netherlands). Horiba (Japan), Arivis AG (Germany), Angstorm Advanced (US), Media Cybernetics (US), and Nion Company (US), are a few major companies dominating the Electron microscopy and sample preparation market.

Research Coverage:

*Electron Microscopy and Sample Preparation Market with Covid-19 impact By Type (SEM and TEM), Application (Sem...*

This research report categorizes the global Electron microscopy and sample preparation market based on application, products, type, end-users and geography. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the electron microscopy and sample preparation industry and forecasts the same till 2026.

### Key Benefits of Buying the Report

The report would help leaders/new entrants in this market in the following ways:

1. This report segments the Electron microscopy and sample preparation market comprehensively and provides the closest market size projection for all subsegments across different regions.
2. The report helps stakeholders understand the pulse of the market and provides them with information on key drivers, restraints, challenges, and opportunities for market growth.
3. This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business. The competitive landscape section includes competitor ecosystem, product development and launch, partnership, and merger.

## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
  - 1.3.1 INCLUSIONS AND EXCLUSIONS
  - 1.3.2 MARKETS COVERED
  - 1.3.3 YEARS CONSIDERED FOR STUDY
- 1.4 CURRENCY
- 1.5 STAKEHOLDERS
- 1.6 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - FIGURE 1 RESEARCH DESIGN
    - 2.1.1 SECONDARY RESEARCH
      - 2.1.1.1 Key data from secondary sources
    - 2.1.2 PRIMARY DATA
      - 2.1.2.1 Key data from primary research
  - FIGURE 2 PRIMARY SOURCES
    - 2.1.2.2 Key data from primary sources
    - 2.1.2.3 Key industry insights
    - 2.1.2.4 Breakdown of primaries
  - FIGURE 3 BREAKDOWN OF PRIMARY INTERVIEWS (SUPPLY SIDE):  
BY COMPANY TYPE, DESIGNATION, AND REGION
- 2.2 MARKET SIZE ESTIMATION
  - 2.2.1 BOTTOM-UP APPROACH
  - 2.2.2 TOP-DOWN APPROACH
- FIGURE 4 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET:  
TOP-DOWN APPROACH
  - 2.2.3 GROWTH FORECAST
- 2.3 DATA TRIANGULATION
  - FIGURE 5 DATA TRIANGULATION METHODOLOGY
- 2.4 RESEARCH ASSUMPTIONS
- 2.5 RESEARCH LIMITATIONS

### 3 EXECUTIVE SUMMARY

FIGURE 6 GLOBAL ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, 2017–2026 (USD MILLION)

FIGURE 7 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY PRODUCT, 2021

FIGURE 8 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021

FIGURE 9 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY APPLICATION, 2021

FIGURE 10 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021

FIGURE 11 GEOGRAPHICAL SNAPSHOT OF ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET

### 4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET

FIGURE 12 INCREASING R&D FUNDING IS DRIVING GROWTH OF ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET

4.2 NORTH AMERICA ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER & COUNTRY (2021)

FIGURE 13 INDUSTRIES SEGMENT AND US TO DOMINATE NORTH AMERICAN ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET IN 2021

4.3 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2026

FIGURE 14 SCANNING ELECTRON MICROSCOPE SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE BY 2026

4.4 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY APPLICATION, 2026

FIGURE 15 SEMICONDUCTORS APPLICATION SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE BY 2026

4.5 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2026

FIGURE 16 INDUSTRIES SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE BY 2026

### 5 MARKET OVERVIEW

## 5.1 INTRODUCTION

## 5.2 MARKET DYNAMICS

### FIGURE 17 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

#### 5.2.1 DRIVERS

5.2.1.1 Favorable funding scenario for R&D in microscopy

#### TABLE 1 RECENT FUNDING FOR R&D IN MICROSCOPY

5.2.1.2 Technological advancements in microscopes

5.2.1.3 Increased focus on nanotechnology and regenerative medicine

### FIGURE 18 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET DRIVERS AND THEIR IMPACT

#### 5.2.2 RESTRAINTS

5.2.2.1 Availability of open-source microscopy software

### FIGURE 19 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET RESTRAINTS AND THEIR IMPACT

#### 5.2.3 OPPORTUNITIES

5.2.3.1 Growth opportunities in emerging markets

5.2.3.2 Increasing application areas of microscopy

### FIGURE 20 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET OPPORTUNITIES AND THEIR IMPACT

#### 5.2.4 CHALLENGES

5.2.4.1 Lack of skilled professionals

### FIGURE 21 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET CHALLENGES AND THEIR IMPACT

## 6 INDUSTRY TRENDS

### 6.1 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESS

#### 6.1.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET

#### FIGURE 22 REVENUE SHIFT IN ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET

### 6.2 VALUE CHAIN ANALYSIS

#### FIGURE 23 VALUE CHAIN ANALYSIS OF ELECTRON MICROSCOPES

#### TABLE 2 ELECTRON MICROSCOPE AND SAMPLE PREPARATION MARKETS: VALUE CHAIN

### 6.3 TECHNOLOGY ANALYSIS

#### 6.3.1 ROLE AND IMPACT OF AI AND MACHINE VISION ON MICROSCOPY

## SOFTWARE MARKET

### 6.3.2 TECHNOLOGICAL ADVANCEMENTS IN MICROSCOPY SOFTWARE AND MICROSCOPES

### 6.3.3 CONVERTING REGULAR ELECTRON MICROSCOPE TO HIGH-SPEED ATOM SCALE CAMERAS

## 6.4 CASE STUDY

### 6.4.1 USE OF ELECTRON MICROSCOPES IN AUTOMOTIVE INDUSTRY

### 6.4.2 USE OF ELECTRON MICROSCOPES IN AEROSPACE INDUSTRY

## 6.5 REGULATION OF ELECTRON MICROSCOPES

### 6.5.1 SAFETY REGULATIONS (VIRGINIA, US)

## 6.6 TRADE ANALYSIS

### 6.6.1 TRADE ANALYSIS FOR ELECTRON MICROSCOPES

### TABLE 3 ELECTRON MICROSCOPE IMPORTS, BY COUNTRY, 2015–2019 (USD THOUSAND)

### TABLE 4 ELECTRON MICROSCOPE EXPORTS, BY COUNTRY, 2015–2019 (USD THOUSAND)

## 6.7 TARIFF ANALYSIS FOR ELECTRON MICROSCOPES

### TABLE 5 MFN TARIFFS FOR ELECTRON MICROSCOPES EXPORTED BY NETHERLANDS

### TABLE 6 MFN TARIFFS FOR ELECTRON MICROSCOPES EXPORTED BY CZECH REPUBLIC

## 6.8 PATENT ANALYSIS

### TABLE 7 IMPORTANT INNOVATIONS AND PATENT REGISTRATIONS

## 6.9 PORTER'S FIVE FORCES MODEL

### TABLE 8 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET: PORTER'S FIVE FORCES ANALYSIS

### FIGURE 24 PORTER'S FIVE FORCES ANALYSIS

#### 6.9.1 THREAT OF NEW ENTRANTS

#### 6.9.2 THREAT OF SUBSTITUTES

#### 6.9.3 BARGAINING POWER OF SUPPLIERS

#### 6.9.4 BARGAINING POWER OF BUYERS

#### 6.9.5 INTENSITY OF COMPETITIVE RIVALRY

## 6.10 ELECTRON MICROSCOPY AND SAMPLE PREPARATION ECOSYSTEM

### FIGURE 25 ECOSYSTEM OF ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET

## 6.11 IMPACT OF COVID-19 ON ELECTRON MICROSCOPE AND SAMPLE PREPARATION MARKET

## 6.12 AVERAGE SELLING PRICE OF VARIOUS MICROSCOPES

### TABLE 9 PRICE COMPARISON OF VARIOUS MICROSCOPES



## **7 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY PRODUCT**

### **7.1 INTRODUCTION**

FIGURE 26 SOFTWARE SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 10 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY PRODUCT, 2017–2020 (USD MILLION)

TABLE 11 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY PRODUCT, 2021–2026 (USD MILLION)

### **7.2 MICROSCOPES**

7.2.1 BROAD APPLICATIONS AND EMERGING TECHNOLOGIES HAVE RESULTED IN GROWING DEMAND FOR MICROSCOPES

TABLE 12 KEY PRODUCT PORTFOLIO OF CLEM

### **7.3 SOFTWARE**

7.3.1 INTRODUCTION OF NOVEL IMAGE ACQUISITION SOFTWARE FOR MICROSCOPES IS DRIVING MARKET GROWTH

### **7.4 ACCESSORIES**

7.4.1 HIGH DEMAND FOR MICROSCOPE OBJECTIVE LENSES IN LIFE SCIENCE RESEARCH TO DRIVE GROWTH OF SEGMENT

## **8 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE**

### **8.1 INTRODUCTION**

FIGURE 27 SCANNING ELECTRON MICROSCOPE SEGMENT TO EXHIBIT HIGHER CAGR DURING FORECAST PERIOD

TABLE 13 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 14 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

### **8.2 SCANNING ELECTRON MICROSCOPE (SEM)**

8.2.1 SEMS CAN PROVIDE MAGNIFICATION OF UP TO 100,000X

TABLE 15 SCANNING ELECTRON MICROSCOPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY REGION, 2017–2020 (USD MILLION)

TABLE 16 SCANNING ELECTRON MICROSCOPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY REGION, 2021–2026 (USD MILLION)

TABLE 17 SCANNING ELECTRON MICROSCOPE: NORTH AMERICA ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2017–2020



(USD MILLION)

TABLE 18 SCANNING ELECTRON MICROSCOPE: NORTH AMERICA ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 19 SCANNING ELECTRON MICROSCOPE: EUROPE ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 20 SCANNING ELECTRON MICROSCOPE: EUROPE ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 21 SCANNING ELECTRON MICROSCOPE: APAC ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 22 SCANNING ELECTRON MICROSCOPE: APAC ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, 2021–2026 (USD MILLION)

### 8.3 TRANSMISSION ELECTRON MICROSCOPE (TEM)

8.3.1 TEMS ARE MAJORLY USED TO STUDY ULTRASTRUCTURE OF COMPONENTS

TABLE 23 TRANSMISSION ELECTRON MICROSCOPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY REGION, 2017–2020 (USD MILLION)

TABLE 24 TRANSMISSION ELECTRON MICROSCOPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY REGION, 2021–2026 (USD MILLION)

TABLE 25 TRANSMISSION ELECTRON MICROSCOPE: NORTH AMERICA ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 26 TRANSMISSION ELECTRON MICROSCOPE: NORTH AMERICA ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 27 TRANSMISSION ELECTRON MICROSCOPE: EUROPE ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 28 TRANSMISSION ELECTRON MICROSCOPE: EUROPE ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, 2021–2026 (USD MILLION)

TABLE 29 TRANSMISSION ELECTRON MICROSCOPE: APAC ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 30 TRANSMISSION ELECTRON MICROSCOPE: APAC ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

## **9 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY APPLICATION**

### **9.1 INTRODUCTION**

FIGURE 28 MATERIALS SCIENCE SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 31 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY APPLICATION, 2017–2020 (USD MILLION)

TABLE 32 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY APPLICATION, 2021–2026 (USD MILLION)

### **9.2 SEMICONDUCTOR**

9.2.1 SEMICONDUCTOR TO BE LARGEST APPLICATION SEGMENT OF ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET DURING FORECAST PERIOD

TABLE 33 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR SEMICONDUCTOR, BY REGION, 2017–2020 (USD MILLION)

TABLE 34 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR SEMICONDUCTOR, BY REGION, 2021–2026 (USD MILLION)

TABLE 35 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR SEMICONDUCTOR, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 36 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR SEMICONDUCTOR, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 37 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR SEMICONDUCTOR, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 38 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR SEMICONDUCTOR, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 39 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR SEMICONDUCTOR, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 40 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR SEMICONDUCTOR, BY COUNTRY, 2021–2026 (USD MILLION)

### **9.3 LIFE SCIENCES**

9.3.1 INCREASING R&D SUPPORTED BY GOVERNMENT FUNDING TO FUEL MARKET GROWTH

TABLE 41 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR LIFE SCIENCES, BY REGION, 2017–2020 (USD MILLION)

TABLE 42 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR

LIFE SCIENCES, BY REGION, 2021–2026 (USD MILLION)

TABLE 43 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR LIFE SCIENCES, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 44 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR LIFE SCIENCES, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 45 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR LIFE SCIENCES, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 46 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR LIFE SCIENCES, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 47 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR LIFE SCIENCES, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 48 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR LIFE SCIENCES, BY COUNTRY, 2021–2026 (USD MILLION)

#### 9.4 MATERIALS SCIENCE

9.4.1 INCREASING FOCUS ON RESEARCH IN MATERIALS SCIENCE TO FUEL ADOPTION OF ELECTRON MICROSCOPES

TABLE 49 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR MATERIALS SCIENCE, BY REGION, 2017–2020 (USD MILLION)

TABLE 50 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR MATERIALS SCIENCE, BY REGION, 2021–2026 (USD MILLION)

TABLE 51 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR MATERIALS SCIENCE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 52 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR MATERIALS SCIENCE, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 53 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR MATERIALS SCIENCE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 54 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR MATERIALS SCIENCE, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 55 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR MATERIALS SCIENCE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 56 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR MATERIALS SCIENCE, BY COUNTRY, 2021–2026 (USD MILLION)

#### 9.5 OTHERS

TABLE 57 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS BY REGION, 2017–2020 (USD MILLION)

TABLE 58 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET BY REGION, FOR OTHERS, 2021–2026 (USD MILLION)

TABLE 59 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 60 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 61 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 62 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 63 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 64 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS BY COUNTRY, 2021–2026 (USD MILLION)

## **10 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER**

### **10.1 INTRODUCTION**

FIGURE 29 INDUSTRIES SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 65 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 66 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

### **10.2 INDUSTRIES**

10.2.1 TECHNOLOGICAL INNOVATIONS TO FUEL ADOPTION OF MICROSCOPES IN SEVERAL INDUSTRIES

TABLE 67 INDUSTRIAL APPLICATIONS OF VARIOUS MICROSCOPES

TABLE 68 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR INDUSTRIES, BY REGION, 2017–2020 (USD MILLION)

TABLE 69 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR INDUSTRIES, BY REGION, 2021–2026 (USD MILLION)

TABLE 70 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR INDUSTRIES, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 71 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR INDUSTRIES, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 72 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR INDUSTRIES, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 73 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR INDUSTRIES, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 74 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR INDUSTRIES, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 75 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR INDUSTRIES, BY COUNTRY, 2021–2026 (USD MILLION)

### 10.3 ACADEMIC & RESEARCH INSTITUTES

10.3.1 INCREASING R&D TO SURGE ADOPTION OF MICROSCOPES IN ACADEMIC & RESEARCH INSTITUTES

TABLE 76 SOME OF FUNDS/GRANTS RELEASED FOR BIOMEDICAL RESEARCH

TABLE 77 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY REGION

### 2017–2020 (USD MILLION)

TABLE 78 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY REGION, 2021–2026 (USD MILLION)

TABLE 79 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 80 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 81 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 82 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 83 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 84 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2021–2026 (USD MILLION)

### 10.4 OTHERS

TABLE 85 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR

OTHERS, BY REGION, 2017–2020 (USD MILLION)

TABLE 86 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET BY REGION, FOR OTHERS, 2021–2026 (USD MILLION)

TABLE 87 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 88 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 89 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 90 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 91 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 92 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR OTHERS, BY COUNTRY, 2021–2026 (USD MILLION)

## **11 SAMPLE PREPARATION TECHNIQUES**

### **11.1 INTRODUCTION**

### **11.2 SAMPLE PREPARATION MARKET, BY METHOD**

#### **11.2.1 CUTTING AND SLICING**

##### **11.2.1.1 Ion beam milling**

TABLE 93 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ION BEAM MILLING SYSTEM, BY ELECTRON MICROSCOPE TYPE, 2017–2020 (USD MILLION)

TABLE 94 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FOR ION BEAM MILLING SYSTEM, BY ELECTRON MICROSCOPE TYPE, 2021–2026 (USD MILLION)

##### **11.2.1.2 Ultramicrotomy**

##### **11.2.1.3 Freeze-fracturing and CRYO-ultramicrotomy**

#### **11.2.2 FIXATION**

##### **11.2.2.1 Chemical fixation**

##### **11.2.2.2 Critical point drying**

##### **11.2.2.3 Cryofixation**

#### **11.2.3 EMBEDDING**

#### **11.2.4 COATING**

##### **11.2.4.1 Sputter coater**

##### **11.2.4.2 Evaporation coater**

##### **11.2.4.3 Glow discharge sputtering**



11.2.5 IMMUNOGOLD LABELING

11.2.6 CRYO SAMPLE PREPARATION

## **12 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY REGION**

### **12.1 INTRODUCTION**

FIGURE 30 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES

FIGURE 31 APAC REGION TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 95 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY REGION, 2017–2020 (USD MILLION)

TABLE 96 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY REGION, 2021–2026 (USD MILLION)

### **12.2 NORTH AMERICA**

FIGURE 32 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET SNAPSHOT

TABLE 97 NORTH AMERICA: ELECTRON MICROSCOPES MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 98 NORTH AMERICA: ELECTRON MICROSCOPES MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 99 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 100 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 101 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 102 NORTH AMERICA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

#### **12.2.1 US**

12.2.1.1 Increasing R&D and commercialization of nanotechnology-based products are driving demand for electron microscopes in US

TABLE 103 US: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 104 US: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 105 US: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)



TABLE 106 US: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

#### 12.2.2 CANADA

12.2.2.1 Increasing R&D funding for microscopy research and nanotechnology is driving market growth in Canada

TABLE 107 CANADA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 108 CANADA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 109 CANADA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 110 CANADA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

#### 12.3 EUROPE

TABLE 111 MAJOR DEVELOPMENTS IN EUROPEAN ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET

TABLE 112 EUROPE: ELECTRON MICROSCOPES MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 113 EUROPE: ELECTRON MICROSCOPES MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 114 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 115 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 116 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 117 EUROPE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

#### 12.3.1 GERMANY

12.3.1.1 High public sector investments in nanotechnology to boost market growth

TABLE 118 GERMANY ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 119 GERMANY: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 120 GERMANY: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 121 GERMANY: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

#### 12.3.2 UK

12.3.2.1 Continuous increase in life science research to drive market growth in UK

TABLE 122 UK: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 123 UK: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 124 UK: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 125 UK: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

### 12.3.3 FRANCE

12.3.3.1 Expanding biotechnology industry to support market growth in France

TABLE 126 FRANCE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 127 FRANCE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 128 FRANCE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 129 FRANCE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

### 12.3.4 REST OF EUROPE

TABLE 130 ROE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 131 ROE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 132 ROE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 133 ROE: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

## 12.4 ASIA PACIFIC

FIGURE 33 ASIA PACIFIC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET SNAPSHOT

TABLE 134 APAC: ELECTRON MICROSCOPES MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 135 APAC: ELECTRON MICROSCOPES MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 136 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 137 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION

MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 138 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION

MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 139 APAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION

MARKET, BY COUNTRY, 2017–2026 (USD MILLION)

#### 12.4.1 JAPAN

12.4.1.1 Launch of new products to drive market growth in Japan

TABLE 140 MAJOR DEVELOPMENTS IN JAPANESE ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET

TABLE 141 JAPAN: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 142 JAPAN: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 143 JAPAN: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 144 JAPAN: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

#### 12.4.2 CHINA

12.4.2.1 Strategic government initiatives for life science research to fuel market growth in China

TABLE 145 MAJOR DEVELOPMENTS IN CHINESE ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET

TABLE 146 CHINA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 147 CHINA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 148 CHINA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 149 CHINA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

#### 12.4.3 INDIA

12.4.3.1 Expanding biotechnology industry to drive demand for microscopes in India

TABLE 150 INDIA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 151 INDIA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 152 INDIA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 153 INDIA: ELECTRON MICROSCOPY AND SAMPLE PREPARATION

MARKET, BY END USER, 2021–2026 (USD MILLION)

12.4.4 REST OF APAC

TABLE 154 ROPAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 155 ROPAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 156 ROPAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 157 ROPAC: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

12.5 REST OF THE WORLD

TABLE 158 ROW: ELECTRON MICROSCOPES MARKET, BY TYPE, 2017–2020 (USD MILLION)

TABLE 159 ROW: ELECTRON MICROSCOPES MARKET, BY TYPE, 2021–2026 (USD MILLION)

TABLE 160 ROW: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 161 ROW: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, BY END USER, 2021–2026 (USD MILLION)

## **13 COMPETITIVE LANDSCAPE**

### **13.1 OVERVIEW**

FIGURE 34 KEY DEVELOPMENTS IN ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET FROM 2017 TO 2020

### **13.2 MARKET SHARE ANALYSIS: ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET**

TABLE 162 MARKET SHARE OF KEY PLAYERS IN ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, 2020

### **13.3 REVENUE SHARE ANALYSIS OF TOP FIVE PLAYERS IN ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET**

FIGURE 35 REVENUE SHARE ANALYSIS OF TOP FIVE PLAYERS IN ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET, 2016–2020

### **13.4 MARKET EVALUATION FRAMEWORK**

TABLE 163 OVERVIEW OF STRATEGIES DEPLOYED BY KEY ELECTRON MICROSCOPE PROVIDERS

#### **13.4.1 PRODUCT PORTFOLIO**

#### **13.4.2 REGIONAL FOCUS**

#### **13.4.3 MANUFACTURING FOOTPRINT**

#### 13.4.4 ORGANIC/INORGANIC GROWTH STRATEGIES

### 13.5 COMPANY EVALUATION MATRIX

#### 13.5.1 STAR

#### 13.5.2 EMERGING LEADER

#### 13.5.3 PERVASIVE

#### 13.5.4 PARTICIPANT

FIGURE 36 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET:  
COMPANY EVALUATION MATRIX, 2020

### 13.6 STARTUP/SME EVALUATION MATRIX, 2020

#### 13.6.1 PROGRESSIVE COMPANY

#### 13.6.2 RESPONSIVE COMPANY

#### 13.6.3 DYNAMIC COMPANY

#### 13.6.4 STARTING BLOCK

FIGURE 37 ELECTRON MICROSCOPY AND SAMPLE PREPARATION MARKET:  
STARTUP/SME EVALUATION MATRIX, 2020

### 13.7 COMPANY PRODUCT FOOTPRINT

TABLE 164 PRODUCT FOOTPRINT OF COMPANIES

TABLE 165 APPLICATION FOOTPRINT OF COMPANIES

TABLE 166 PRODUCT FOOTPRINT OF COMPANIES

TABLE 167 REGIONAL FOOTPRINT OF COMPANIES

### 13.8 COMPETITIVE SITUATIONS AND TRENDS

#### 13.8.1 PRODUCT LAUNCHES

#### 13.8.2 DEALS

## 14 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))\*

### 14.1 KEY PLAYERS

#### 14.1.1 CARL ZEISS

TABLE 168 CARL ZEISS: COMPANY SNAPSHOT

FIGURE 38 CARL ZEISS: COMPANY SNAPSHOT (2020)

#### 14.1.2 DANAHER

TABLE 169 DANAHER: COMPANY SNAPSHOT

FIGURE 39 DANAHER: COMPANY SNAPSHOT (2019)

#### 14.1.3 THERMO FISHER SCIENTIFIC

TABLE 170 THERMO FISHER SCIENTIFIC: COMPANY SNAPSHOT

FIGURE 40 THERMO FISHER SCIENTIFIC: COMPANY SNAPSHOT (2019)

#### 14.1.4 NIKON

TABLE 171 NIKON: COMPANY SNAPSHOT

FIGURE 41 NIKON: COMPANY SNAPSHOT (2020)

#### 14.1.5 BRUKER

TABLE 172 BRUKER: COMPANY SNAPSHOT

FIGURE 42 BRUKER: COMPANY SNAPSHOT (2019)

#### 14.1.6 OLYMPUS

TABLE 173 OLYMPUS: COMPANY SNAPSHOT

FIGURE 43 OLYMPUS: COMPANY SNAPSHOT (2020)

#### 14.1.7 OXFORD INSTRUMENTS

TABLE 174 OXFORD INSTRUMENTS: COMPANY SNAPSHOT

FIGURE 44 OXFORD INSTRUMENTS: COMPANY SNAPSHOT (2020)

#### 14.1.8 JEOL

TABLE 175 JEOL: COMPANY SNAPSHOT

FIGURE 45 JEOL: COMPANY SNAPSHOT (2018)

#### 14.1.9 HITACHI HIGH-TECHNOLOGIES

TABLE 176 HITACHI HIGH-TECHNOLOGIES: COMPANY SNAPSHOT

FIGURE 46 HITACHI HIGH-TECHNOLOGIES: COMPANY SNAPSHOT (2019)

#### 14.1.10 HIROX

TABLE 177 HIROX: COMPANY SNAPSHOT

### 14.2 OTHER COMPANIES

#### 14.2.1 MICROPTIK

#### 14.2.2 HORIBA

#### 14.2.3 ARIVIS AG

#### 14.2.4 ANGSTORM ADVANCED INC

#### 14.2.5 MEDIA CYBERNETICS

#### 14.2.6 NION COMPANY

#### 14.2.7 TESCAN ORSAY HOLDING

#### 14.2.8 CORDOUAN TECHNOLOGIES SAS

#### 14.2.9 RENISHAW PLC

#### 14.2.10 WITEC

\*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

## 15 APPENDIX

### 15.1 DISCUSSION GUIDE

### 15.2 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

15.3 AVAILABLE CUSTOMIZATIONS

15.4 RELATED REPORTS

15.5 AUTHOR DETAILS



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