

Electron Microscopy Market By Type (Scanning Electron Microscope (SEM), Transmission Electron Microscope (TEM)), By Application (Life Sciences, Material Sciences, Other), By End User (Healthcare, Research Institute, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

The global electron microscopy market was valued at \$3,704.5 million in 2021, and is projected to reach \$8,292.9 million by 2031, registering a CAGR of 8.5% from 2022 to 2031.

Electron microscopy refers to a technique for obtaining high-resolution images of biological and non-biological specimens. It is extensively used in biomedical research to investigate the detailed structure of tissues, cells, organelles, and macromolecular complexes. The high resolution of these images results from the use of electrons as the source of illuminating radiation. Electron microscopy is used in conjunction with a variety of ancillary techniques, including thin sectioning, immuno-labeling, and negative staining for various research purposes. Electron microscopy images provide key information on the structural basis of cell function and of cell disease.□

Surge in adoption of electron microscopes for conducting research and manufacturing processes is expected to drive the growth of the global electron microscopy market positively. Electron microscopes are extensively used in the field of semiconductors. It is used in the field of circuit edit and analyzing circuit failure. In life sciences, it finds its application in clinical trials, pathology, disease diagnosis, toxicology, and various other sub-disciplines. Microscopy can further be used for the characterization of materials to study their internal structures and various other applications. Moreover, microscopes are used in food, forensics, chemical, and healthcare industries. Thus, increase in application of electron microscopes notably contributes toward the growth of the global market.

COVID-19 has caused the overall semiconductor industry to mobilize quickly and to make short-term decisions with long-term implications. Semiconductor companies operate in a complex ecosystem, working across the value chain with numerous raw materials, assembly, test, package, and equipment suppliers & partners, globally. The ongoing COVID-19 pandemic has abruptly

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re-shaped the global economy. Sudden decline in infrastructure development and installation projects is expected to hamper the market for commercial, government, industrial, residential, and more verticals.

The global electron microscopy market is segmented into type, application, end user, and region. By type, the market is divided into scanning electron microscope and transmission electron microscope. On the basis of application, it is categorized life sciences, material sciences, and others. As per end user, it is segregated into healthcare, research institute, and others. Region wise, the market trends are analyzed across North America (the U.S., Canada, and Mexico), Europe (UK, Germany, France, and the rest of the Europe), Asia-Pacific (China, Japan, India, South Korea, and the rest of the Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa). Asia-Pacific, specifically China, remains a significant participant in the global electron microscopy industry. Major organizations and government institutions in the country are intensely putting resources into the technology.

The key players profiled in the report include Thermo Fisher Scientific, JEOL Ltd., Carl Zeiss AG, Nikon Instruments Inc., Hitachi High-Technologies Corporation, Oxford Instruments Plc., Bruker Corporation, Tescan, Delong Instruments AS and Advantest Corp. These key players have adopted strategies such as product portfolio expansion, mergers & acquisitions, agreements, geographical expansion, and collaborations to enhance their market penetration.

□

TOP IMPACTING FACTORS

The significant impacting factors impacting in the growth of the global electron microscopy market include increased demand of for electron microscope in semiconductor & microelectronics sector and surge in adoption of electron microscopy in the fields of healthcare and life science. In addition, the market is influenced by adoption of electron microscopy in the field of healthcare and life-science. However, affected by high prices associated with the microscopes hamper the market growth to a certain extent. Moreover increased R&D activities in the automotive influences the market growth sector would create greater opportunity for the market. However, each of these factors is anticipated to have a definite impact on the growth of the global electron microscopy market during the forecast period.

COMPETITION ANALYSIS

Competitive analysis and profiles of the major market players, such as Thermo Fisher Scientific, JEOL Ltd., Carl Zeiss AG, Nikon Instruments Inc., Hitachi High-Technologies Corporation, Oxford Instruments Plc., Bruker Corporation, Tescan, Delong Instruments AS, and Advantest Corp are provided in this report.

KEY BENEFITS FOR STAKEHOLDERS

This study comprises analytical depiction of the electron microscopy market size along with the current trends and future estimations to depict the imminent investment pockets.

The overall market analysis is determined to understand the profitable trends to gain a stronger foothold.

The report presents information related to key drivers, restraints, and opportunities with a detailed impact analysis.

The current market forecast is quantitatively analyzed from 2021 to 2030 to benchmark the financial competency.

Porter's five forces analysis illustrates the potency of the buyers and suppliers in the industry.

The report includes the market share of key vendors and market trends.

□

Key Market Segments

By Type

- Scanning Electron Microscope (SEM)
- Transmission Electron Microscope (TEM)

By Application

- Life Sciences
- Material Sciences
- Other

By End User

- Healthcare
- Research Institute

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- Others
- By Region
 - North America
 - U.S.
 - Canada
 - Mexico
 - Europe
 - United Kingdom
 - Germany
 - France
 - Rest of Europe
 - Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Rest of Asia-Pacific
 - LAMEA
 - Latin America
 - Middle East
 - Africa
- Key Market Players
 - Bruker Corporation
 - carl zeiss ag
 - Thermo Fisher Scientific, Inc.
 - JEOL Ltd.
 - Nikon Instruments, Inc.
 - Hitachi High-Technologies Corporation
 - Oxford Instruments plc
 - tescan orsay holding, a.s.
 - DeLong Instruments AS
 - Advantest Corp

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