

# **Cryo-electron Microscopy Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application**

<https://marketpublishers.com/r/C2344C95EC09EN.html>

Date: February 2025

Pages: 73

Price: US\$ 3,200.00 (Single User License)

ID: C2344C95EC09EN

## **Abstracts**

### Overview of the Cryo-electron Microscopy Market

Cryo-electron microscopy (Cryo-EM) has emerged as one of the most influential tools in structural biology and material science, providing unprecedented insights into the behavior of biological molecules and materials at near-atomic resolutions. Its ability to visualize samples at cryogenic temperatures has enabled scientists to investigate structures that were previously difficult or impossible to analyze. The market for Cryo-EM is projected to grow significantly between 2025 and 2030, driven by advancements in technology and an increasing demand for precise imaging techniques across various sectors.

### Market Size

The global Cryo-electron microscopy market is expected to reach approximately USD 3.5 billion by 2025, growing at a compound annual growth rate (CAGR) of 8.5% during the forecast period from 2025 to 2030. This growth can be attributed to the rising demand for advanced imaging techniques in drug development, material sciences, and various industrial applications.

### Market Share & Trends Analysis

#### By Product Type

The Cryo-EM market can be segmented by product type into categories including:

Cryo-electron microscopes  
Accessories and consumables  
Software

Among these, cryo-electron microscopes account for the largest market share, estimated at around 60% of the total market revenue due to the increasing adoption of advanced imaging systems in academic and industrial research laboratories.

### By Key Players

Key players in the Cryo-EM market include:

Thermo Fisher Scientific  
JEOL Ltd.  
Hitachi High-Technologies Corporation  
TESCAN

These companies are focusing on strategic partnerships, mergers, and acquisitions, as well as investment in R&D to enhance their product offerings and maintain a competitive edge in the market.

### By Process

The Cryo-EM market can also be analyzed based on the processes used in imaging, which include:

Cryo-preparation  
Cryo-microscopy

The cryo-preparation segment is expected to dominate the market share owing to the significant improvements in sample preparation techniques that have been developed in recent years.

### By Application

The key application segments of the Cryo-EM market are:

- Life Sciences
- Material Sciences
- Semiconductors
- Others

Among these, the life sciences segment holds the largest market share, driven by the demand for drug discovery and development processes. The segments market share is projected to reach around 70% by 2025.

#### By End-Use

End-use segments in the Cryo-EM market include:

- Academic & Research Institutes
- Pharmaceutical & Biotechnology Companies
- Others

The academic and research institutes constitute the largest end-user segment due to the growing research activities and investment in life sciences research.

#### By Region

The global Cryo-EM market is analyzed across various regions including:

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

North America dominates the market with a share of about 45%, owing to the presence of major players, advanced healthcare infrastructure, and strong investment in research and development activities.

## Market News on Policy and Companies

The escalating competitive landscape has prompted several companies to engage in partnerships and alliances to enhance their service portfolios. In addition, ongoing advancements in cryo-EM technology, such as the improvement of resolution to atomic levels and the capabilities to analyze biological dynamics in real-time, continue to shape the market. Recently, Thermo Fisher announced a collaboration with numerous academic institutions to promote the adoption of Cryo-EM in structural biology, with aims to develop next-generation tools that will set a new standard in the field.

## Segment Forecasts, 2025 - 2030

As the Cryo-electron microscopy market evolves, trends indicate a steady growth trajectory. The life sciences segment is expected to retain its dominance, while material sciences applications are anticipated to experience robust growth due to increasing demand from industries involved in nanotechnology and semiconductor production.

Furthermore, the Asia-Pacific region is predicted to exhibit the highest growth rate, at around 9% CAGR, fueled by increasing investments in medical research and the adoption of advanced microscopy techniques in countries like China and India.

In conclusion, the Cryo-electron microscopy market is positioned for substantial growth over the next few years, driven by technological innovations and the expanding application of microscopy across multiple research fields. Companies in this market must continue to innovate and adapt to stay ahead in an increasingly competitive environment.

## Contents

### **CHAPTER 1 EXECUTIVE SUMMARY**

### **CHAPTER 2 ABBREVIATION AND ACRONYMS**

### **CHAPTER 3 PREFACE**

- 3.1 Research Scope
- 3.2 Research Sources
  - 3.2.1 Data Sources
  - 3.2.2 Assumptions
- 3.3 Research Method

### **CHAPTER 4 MARKET LANDSCAPE**

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

### **CHAPTER 5 MARKET TREND ANALYSIS**

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

### **CHAPTER 6 INDUSTRY CHAIN ANALYSIS**

- 6.1 Upstream/Suppliers Analysis
- 6.2 Cryo-Electron Microscopy Analysis
  - 6.2.1 Technology Analysis
  - 6.2.2 Cost Analysis
  - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

### **CHAPTER 7 LATEST MARKET DYNAMICS**

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

## **CHAPTER 8 TRADING ANALYSIS**

- 8.1 Export of Cryo-Electron Microscopy by Region
- 8.2 Import of Cryo-Electron Microscopy by Region
- 8.3 Balance of Trade

## **CHAPTER 9 HISTORICAL AND FORECAST CRYO-ELECTRON MICROSCOPY MARKET IN NORTH AMERICA (2020-2030)**

- 9.1 Cryo-Electron Microscopy Market Size
- 9.2 Cryo-Electron Microscopy Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
  - 9.5.1 United States
  - 9.5.2 Canada
  - 9.5.3 Mexico

## **CHAPTER 10 HISTORICAL AND FORECAST CRYO-ELECTRON MICROSCOPY MARKET IN SOUTH AMERICA (2020-2030)**

- 10.1 Cryo-Electron Microscopy Market Size
- 10.2 Cryo-Electron Microscopy Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
  - 10.5.1 Brazil
  - 10.5.2 Argentina
  - 10.5.3 Chile
  - 10.5.4 Peru

## **CHAPTER 11 HISTORICAL AND FORECAST CRYO-ELECTRON MICROSCOPY MARKET IN ASIA & PACIFIC (2020-2030)**

- 11.1 Cryo-Electron Microscopy Market Size
- 11.2 Cryo-Electron Microscopy Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
  - 11.5.1 China
  - 11.5.2 India
  - 11.5.3 Japan
  - 11.5.4 South Korea
  - 11.5.5 Southeast Asia
  - 11.5.6 Australia

## **CHAPTER 12 HISTORICAL AND FORECAST CRYO-ELECTRON MICROSCOPY MARKET IN EUROPE (2020-2030)**

- 12.1 Cryo-Electron Microscopy Market Size
- 12.2 Cryo-Electron Microscopy Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
  - 12.5.1 Germany
  - 12.5.2 France
  - 12.5.3 United Kingdom
  - 12.5.4 Italy
  - 12.5.5 Spain
  - 12.5.6 Belgium
  - 12.5.7 Netherlands
  - 12.5.8 Austria
  - 12.5.9 Poland
  - 12.5.10 Russia

## **CHAPTER 13 HISTORICAL AND FORECAST CRYO-ELECTRON MICROSCOPY MARKET IN MEA (2020-2030)**

- 13.1 Cryo-Electron Microscopy Market Size
- 13.2 Cryo-Electron Microscopy Demand by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis

- 13.5.1 Egypt
- 13.5.2 Israel
- 13.5.3 South Africa
- 13.5.4 Gulf Cooperation Council Countries
- 13.5.5 Turkey

## **CHAPTER 14 SUMMARY FOR GLOBAL CRYO-ELECTRON MICROSCOPY MARKET (2020-2025)**

- 14.1 Cryo-Electron Microscopy Market Size
- 14.2 Cryo-Electron Microscopy Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

## **CHAPTER 15 GLOBAL CRYO-ELECTRON MICROSCOPY MARKET FORECAST (2025-2030)**

- 15.1 Cryo-Electron Microscopy Market Size Forecast
- 15.2 Cryo-Electron Microscopy Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

## **CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS**

- 16.1 Thermo Fisher
  - 16.1.1 Company Profile
  - 16.1.2 Main Business and Cryo-electron Microscopy Information
  - 16.1.3 SWOT Analysis of Thermo Fisher
  - 16.1.4 Thermo Fisher Cryo-electron Microscopy Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.2 JEOL
  - 16.2.1 Company Profile
  - 16.2.2 Main Business and Cryo-electron Microscopy Information
  - 16.2.3 SWOT Analysis of JEOL
  - 16.2.4 JEOL Cryo-electron Microscopy Sales, Revenue, Price and Gross Margin (2020-2025)

Please ask for sample pages for full companies list  
Tables and Figures  
Table Abbreviation and Acronyms List



Table Research Scope of Cryo-Electron Microscopy Report
Table Data Sources of Cryo-Electron Microscopy Report
Table Major Assumptions of Cryo-Electron Microscopy Report
Figure Market Size Estimated Method
Figure Major Forecasting Factors
Figure Cryo-Electron Microscopy Picture
Table Cryo-Electron Microscopy Classification
Table Cryo-Electron Microscopy Applications List
Table Drivers of Cryo-Electron Microscopy Market
Table Restraints of Cryo-Electron Microscopy Market
Table Opportunities of Cryo-Electron Microscopy Market
Table Threats of Cryo-Electron Microscopy Market
Table Covid-19 Impact For Cryo-Electron Microscopy Market
Table Raw Materials Suppliers List
Table Different Production Methods of Cryo-Electron Microscopy
Table Cost Structure Analysis of Cryo-Electron Microscopy
Table Key End Users List
Table Latest News of Cryo-Electron Microscopy Market
Table Merger and Acquisition List
Table Planned/Future Project of Cryo-Electron Microscopy Market
Table Policy of Cryo-Electron Microscopy Market
Table 2020-2030 Regional Export of Cryo-Electron Microscopy
Table 2020-2030 Regional Import of Cryo-Electron Microscopy
Table 2020-2030 Regional Trade Balance
Figure 2020-2030 Regional Trade Balance
Table 2020-2030 North America Cryo-Electron Microscopy Market Size and Market Volume List
Figure 2020-2030 North America Cryo-Electron Microscopy Market Size and CAGR
Figure 2020-2030 North America Cryo-Electron Microscopy Market Volume and CAGR
Table 2020-2030 North America Cryo-Electron Microscopy Demand List by Application
Table 2020-2025 North America Cryo-Electron Microscopy Key Players Sales List
Table 2020-2025 North America Cryo-Electron Microscopy Key Players Market Share List
Table 2020-2030 North America Cryo-Electron Microscopy Demand List by Type
Table 2020-2025 North America Cryo-Electron Microscopy Price List by Type
Table 2020-2030 United States Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 United States Cryo-Electron Microscopy Import & Export List
Table 2020-2030 Canada Cryo-Electron Microscopy Market Size and Market Volume

## List

Table 2020-2030 Canada Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Mexico Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Mexico Cryo-Electron Microscopy Import & Export List

Table 2020-2030 South America Cryo-Electron Microscopy Market Size and Market Volume List

Figure 2020-2030 South America Cryo-Electron Microscopy Market Size and CAGR

Figure 2020-2030 South America Cryo-Electron Microscopy Market Volume and CAGR

Table 2020-2030 South America Cryo-Electron Microscopy Demand List by Application

Table 2020-2025 South America Cryo-Electron Microscopy Key Players Sales List

Table 2020-2025 South America Cryo-Electron Microscopy Key Players Market Share List

Table 2020-2030 South America Cryo-Electron Microscopy Demand List by Type

Table 2020-2025 South America Cryo-Electron Microscopy Price List by Type

Table 2020-2030 Brazil Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Brazil Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Argentina Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Argentina Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Chile Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Chile Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Peru Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Peru Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Asia & Pacific Cryo-Electron Microscopy Market Size and Market Volume List

Figure 2020-2030 Asia & Pacific Cryo-Electron Microscopy Market Size and CAGR

Figure 2020-2030 Asia & Pacific Cryo-Electron Microscopy Market Volume and CAGR

Table 2020-2030 Asia & Pacific Cryo-Electron Microscopy Demand List by Application

Table 2020-2025 Asia & Pacific Cryo-Electron Microscopy Key Players Sales List

Table 2020-2025 Asia & Pacific Cryo-Electron Microscopy Key Players Market Share List

Table 2020-2030 Asia & Pacific Cryo-Electron Microscopy Demand List by Type

Table 2020-2025 Asia & Pacific Cryo-Electron Microscopy Price List by Type

Table 2020-2030 China Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 China Cryo-Electron Microscopy Import & Export List

Table 2020-2030 India Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 India Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Japan Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Japan Cryo-Electron Microscopy Import & Export List
Table 2020-2030 South Korea Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 South Korea Cryo-Electron Microscopy Import & Export List
Table 2020-2030 Southeast Asia Cryo-Electron Microscopy Market Size List
Table 2020-2030 Southeast Asia Cryo-Electron Microscopy Market Volume List
Table 2020-2030 Southeast Asia Cryo-Electron Microscopy Import List
Table 2020-2030 Southeast Asia Cryo-Electron Microscopy Export List
Table 2020-2030 Australia Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 Australia Cryo-Electron Microscopy Import & Export List
Table 2020-2030 Europe Cryo-Electron Microscopy Market Size and Market Volume List
Figure 2020-2030 Europe Cryo-Electron Microscopy Market Size and CAGR
Figure 2020-2030 Europe Cryo-Electron Microscopy Market Volume and CAGR
Table 2020-2030 Europe Cryo-Electron Microscopy Demand List by Application
Table 2020-2025 Europe Cryo-Electron Microscopy Key Players Sales List
Table 2020-2025 Europe Cryo-Electron Microscopy Key Players Market Share List
Table 2020-2030 Europe Cryo-Electron Microscopy Demand List by Type
Table 2020-2025 Europe Cryo-Electron Microscopy Price List by Type
Table 2020-2030 Germany Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 Germany Cryo-Electron Microscopy Import & Export List
Table 2020-2030 France Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 France Cryo-Electron Microscopy Import & Export List
Table 2020-2030 United Kingdom Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 United Kingdom Cryo-Electron Microscopy Import & Export List
Table 2020-2030 Italy Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 Italy Cryo-Electron Microscopy Import & Export List
Table 2020-2030 Spain Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 Spain Cryo-Electron Microscopy Import & Export List
Table 2020-2030 Belgium Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 Belgium Cryo-Electron Microscopy Import & Export List
Table 2020-2030 Netherlands Cryo-Electron Microscopy Market Size and Market Volume List
Table 2020-2030 Netherlands Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Austria Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Austria Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Poland Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Poland Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Russia Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Russia Cryo-Electron Microscopy Import & Export List

Table 2020-2030 MEA Cryo-Electron Microscopy Market Size and Market Volume List

Figure 2020-2030 MEA Cryo-Electron Microscopy Market Size and CAGR

Figure 2020-2030 MEA Cryo-Electron Microscopy Market Volume and CAGR

Table 2020-2030 MEA Cryo-Electron Microscopy Demand List by Application

Table 2020-2025 MEA Cryo-Electron Microscopy Key Players Sales List

Table 2020-2025 MEA Cryo-Electron Microscopy Key Players Market Share List

Table 2020-2030 MEA Cryo-Electron Microscopy Demand List by Type

Table 2020-2025 MEA Cryo-Electron Microscopy Price List by Type

Table 2020-2030 Egypt Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Egypt Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Israel Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Israel Cryo-Electron Microscopy Import & Export List

Table 2020-2030 South Africa Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 South Africa Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Gulf Cooperation Council Countries Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Gulf Cooperation Council Countries Cryo-Electron Microscopy Import & Export List

Table 2020-2030 Turkey Cryo-Electron Microscopy Market Size and Market Volume List

Table 2020-2030 Turkey Cryo-Electron Microscopy Import & Export List

Table 2020-2025 Global Cryo-Electron Microscopy Market Size List by Region

Table 2020-2025 Global Cryo-Electron Microscopy Market Size Share List by Region

Table 2020-2025 Global Cryo-Electron Microscopy Market Volume List by Region

Table 2020-2025 Global Cryo-Electron Microscopy Market Volume Share List by Region

Table 2020-2025 Global Cryo-Electron Microscopy Demand List by Application

Table 2020-2025 Global Cryo-Electron Microscopy Demand Market Share List by Application

Table 2020-2025 Global Cryo-Electron Microscopy Key Vendors Sales List

Table 2020-2025 Global Cryo-Electron Microscopy Key Vendors Sales Share List

Figure 2020-2025 Global Cryo-Electron Microscopy Market Volume and Growth Rate  
Table 2020-2025 Global Cryo-Electron Microscopy Key Vendors Revenue List  
Figure 2020-2025 Global Cryo-Electron Microscopy Market Size and Growth Rate  
Table 2020-2025 Global Cryo-Electron Microscopy Key Vendors Revenue Share List  
Table 2020-2025 Global Cryo-Electron Microscopy Demand List by Type  
Table 2020-2025 Global Cryo-Electron Microscopy Demand Market Share List by Type  
Table 2020-2025 Regional Cryo-Electron Microscopy Price List  
Table 2025-2030 Global Cryo-Electron Microscopy Market Size List by Region  
Table 2025-2030 Global Cryo-Electron Microscopy Market Size Share List by Region  
Table 2025-2030 Global Cryo-Electron Microscopy Market Volume List by Region  
Table 2025-2030 Global Cryo-Electron Microscopy Market Volume Share List by Region  
Table 2025-2030 Global Cryo-Electron Microscopy Demand List by Application  
Table 2025-2030 Global Cryo-Electron Microscopy Demand Market Share List by Application  
Table 2025-2030 Global Cryo-Electron Microscopy Key Vendors Sales List  
Table 2025-2030 Global Cryo-Electron Microscopy Key Vendors Sales Share List  
Figure 2025-2030 Global Cryo-Electron Microscopy Market Volume and Growth Rate  
Table 2025-2030 Global Cryo-Electron Microscopy Key Vendors Revenue List  
Figure 2025-2030 Global Cryo-Electron Microscopy Market Size and Growth Rate  
Table 2025-2030 Global Cryo-Electron Microscopy Key Vendors Revenue Share List  
Table 2025-2030 Global Cryo-Electron Microscopy Demand List by Type  
Table 2025-2030 Global Cryo-Electron Microscopy Demand Market Share List by Type  
Table 2025-2030 Cryo-Electron Microscopy Regional Price List  
Table Thermo Fisher Information  
Table SWOT Analysis of Thermo Fisher  
Table 2020-2025 Thermo Fisher Cryo-electron Microscopy Sale Volume Price Cost Revenue  
Figure 2020-2025 Thermo Fisher Cryo-electron Microscopy Sale Volume and Growth Rate  
Figure 2020-2025 Thermo Fisher Cryo-electron Microscopy Market Share  
Table JEOL Information  
Table SWOT Analysis of JEOL  
Table 2020-2025 JEOL Cryo-electron Microscopy Sale Volume Price Cost Revenue  
Figure 2020-2025 JEOL Cryo-electron Microscopy Sale Volume and Growth Rate  
Figure 2020-2025 JEOL Cryo-electron Microscopy Market Share

.....



## I would like to order

Product name: Cryo-electron Microscopy Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

Product link: <https://marketpublishers.com/r/C2344C95EC09EN.html>

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C2344C95EC09EN.html>