

Global Cryo-electron Microscopy System Market Growth 2026-2032

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Abstracts

The global Cryo-electron Microscopy System market size is predicted to grow from US\$ 1223 million in 2025 to US\$ 1836 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

Cryo-electron microscopy (cryo-EM) systems are high-end imaging platforms that enable the observation of biological samples under cryogenic conditions, achieving near-atomic resolution imaging. Combining high-resolution electron optics, direct electron detectors, and advanced computational imaging techniques, these systems are used to reconstruct macromolecular structures and are widely applied in structural biology, drug development, virology, and materials science, helping researchers study proteins, viruses, and other biomolecules without chemical fixation. The cryo-EM system industry chain includes upstream components such as electron sources, superconducting magnets, vacuum systems, cryogenic sample holders, detectors, and computing hardware; midstream system manufacturing integrates optical columns, sample processing, cooling systems, and image reconstruction and analysis software; and downstream applications cover academic research institutions, pharmaceutical and biotechnology companies, and materials research laboratories, with supporting installation, commissioning, calibration, maintenance, and computational workflow optimization services to ensure resolution, system stability, and operational efficiency. In 2025, the global production volume of cryo-EM systems was approximately 357 units, with a global average market price of approximately US\$3.5 million per unit. The gross profit margin of major companies in the industry ranged from 35% to 55%. In 2025, the global production capacity of cryo-EM systems was approximately 510 units.

United States market for Cryo-electron Microscopy System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through

2032.

China market for Cryo-electron Microscopy System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Cryo-electron Microscopy System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Cryo-electron Microscopy System players cover Thermo Fisher Scientific, JEOL, Hitachi High-Tech, Leica Microsystems, Delmic, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Cryo-electron Microscopy System Industry Forecast" looks at past sales and reviews total world Cryo-electron Microscopy System sales in 2025, providing a comprehensive analysis by region and market sector of projected Cryo-electron Microscopy System sales for 2026 through 2032. With Cryo-electron Microscopy System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cryo-electron Microscopy System industry.

This Insight Report provides a comprehensive analysis of the global Cryo-electron Microscopy System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Cryo-electron Microscopy System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cryo-electron Microscopy System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cryo-electron Microscopy System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Cryo-electron Microscopy System.

This report presents a comprehensive overview, market shares, and growth opportunities of Cryo-electron Microscopy System market by product type, application,

key manufacturers and key regions and countries.

Segmentation by Type:

Field Emission Gun (FEG) Cryo-EM

Thermionic Electron Source Cryo-EM

Schottky Electron Source Cryo-EM

Segmentation by Performance & Resolution:

High-resolution Cryo-EM (

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