

# Global Cryo-electron Microscopy System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Cryo-electron Microscopy System market size is expected to reach \$ 1892 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Cryo-electron Microscopy System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cryo-electron Microscopy System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Cryo-electron Microscopy System that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Cryo-electron Microscopy System total production and demand, 2021-2032, (Units)

Global Cryo-electron Microscopy System total production value, 2021-2032, (USD Million)

Global Cryo-electron Microscopy System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Cryo-electron Microscopy System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Cryo-electron Microscopy System domestic production, consumption, key domestic manufacturers and share

Global Cryo-electron Microscopy System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Cryo-electron Microscopy System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Cryo-electron Microscopy System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Cryo-electron Microscopy System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific, JEOL, Hitachi High-Tech, Leica Microsystems, Delmic, Gatan, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Cryo-electron Microscopy System market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Cryo-electron Microscopy System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Cryo-electron Microscopy System Market, Segmentation by Type:

Field Emission Gun (FEG) Cryo-EM

Thermionic Electron Source Cryo-EM

Schottky Electron Source Cryo-EM

#### Global Cryo-electron Microscopy System Market, Segmentation by Performance & Resolution:

High-resolution Cryo-EM (

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