

Global Scanning Electron Microscope (SEM) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Scanning Electron Microscope (SEM) market size was valued at US\$ 3826 million in 2024 and is forecast to a readjusted size of USD 5163 million by 2031 with a CAGR of 4.4% during review period.

A scanning electron microscope (SEM) is a type of electron microscope that produces images of a sample by scanning the surface with a focused beam of electrons. The electrons interact with atoms in the sample, producing various signals that contain information about the surface topography and composition of the sample. The electron beam is scanned in a raster scan pattern, and the position of the beam is combined with the intensity of the detected signal to produce an image. In the most common SEM mode, secondary electrons emitted by atoms excited by the electron beam are detected using a secondary electron detector (Everhart-Thornley detector). The number of secondary electrons that can be detected, and thus the signal intensity, depends, among other things, on specimen topography. SEM can achieve resolution better than 1 nanometer.

Global main manufacturers of scanning electron microscope (SEM) include Thermo Fisher Scientific, Hitachi High-Technologies Corporation and Jeol Ltd., etc. The top three players hold a share around 64%. The global scanning electron microscopes (SEM) are mainly produced in United States and Japan, they occupied for a share over 70%. Asia-Pacific is the largest market, has a share about 41%, followed by North America and Europe, with share 27% and 25%, separately.

This report is a detailed and comprehensive analysis for global Scanning Electron

Microscope (SEM) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Scanning Electron Microscope (SEM) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2020-2031

Global Scanning Electron Microscope (SEM) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2020-2031

Global Scanning Electron Microscope (SEM) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2020-2031

Global Scanning Electron Microscope (SEM) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K USD/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Scanning Electron Microscope (SEM)
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Scanning Electron Microscope (SEM) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific, Hitachi High-Technologies Corporation, Jeol Ltd., Carl Zeiss, Advantest, Tescan Group, Hirox, Delong, COXEM, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Scanning Electron Microscope (SEM) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

W-SEM

FEG-SEM

FIB-SEM

Market segment by Application

Life Sciences

Material Sciences

Major players covered

Thermo Fisher Scientific

Hitachi High-Technologies Corporation

Jeol Ltd.

Carl Zeiss

Advantest

Tescan Group

Hirox

Delong

COXEM

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Scanning Electron Microscope (SEM) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Scanning Electron Microscope (SEM), with price, sales quantity, revenue, and global market share of Scanning Electron Microscope (SEM) from 2020 to 2025.

Chapter 3, the Scanning Electron Microscope (SEM) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Scanning Electron Microscope (SEM) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Scanning Electron Microscope (SEM) market forecast, by regions, by Type,

and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Scanning Electron Microscope (SEM).

Chapter 14 and 15, to describe Scanning Electron Microscope (SEM) sales channel, distributors, customers, research findings and conclusion.

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