

Global Helium Ion Microscopes Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/H2832E8BACBBEN.html>

Date: July 2025

Pages: 70

Price: US\$ 3,480.00 (Single User License)

ID: H2832E8BACBBEN

Abstracts

According to our (Global Info Research) latest study, the global Helium Ion Microscopes market size was valued at US\$ 32.4 million in 2024 and is forecast to a readjusted size of USD 54.5 million by 2031 with a CAGR of 7.8% during review period.

Helium ion microscopy was developed based on gas field ion source (GFIS) technology, and has initially been used primarily for imaging when it was introduced to the market in 2006. Recent development in applications has been shifted to nano fabrication mainly due to its superior probe quality. With a probe size of 0.5 nanometer, the He ion beam enables nanoscale patterning such as nanopore fabrication with pore size as small as 2 nanometers and line patterning of sub 10 nanometers line width. Compared with focused Ga ion beam, Ne and He gases are inert leaving no chemical contamination in the processed sample.

Carl Zeiss is the major player in global Helium Ion Microscopes market, and the market concentration rate is high. North America and Europe are main markets, they occupy about 70% of the global market. ORION® Plus is the main type, with a share about 55%. Semiconductor Industry is the main application, which holds a share about 50%.

This report is a detailed and comprehensive analysis for global Helium Ion Microscopes 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 Helium Ion Microscopes market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

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

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

Global Helium Ion Microscopes market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (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 Helium Ion Microscopes

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 Helium Ion Microscopes 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 Carl Zeiss, etc.

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

Market Segmentation

Helium Ion Microscopes 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

ORION ® Plus

ORION NanoFab

Market segment by Application

Semiconductor Industry

Materials Industry

Biological Industry

Others

Major players covered

Carl Zeiss

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 Helium Ion Microscopes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Helium Ion Microscopes, with price, sales quantity, revenue, and global market share of Helium Ion Microscopes from 2020 to 2025.

Chapter 3, the Helium Ion Microscopes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Helium Ion Microscopes 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 Helium Ion Microscopes 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 Helium Ion Microscopes.

Chapter 14 and 15, to describe Helium Ion Microscopes sales channel, distributors, customers, research findings and conclusion.

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