

Global GC and GC-MS 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 GC and GC-MS market size was valued at US\$ 1729 million in 2024 and is forecast to a readjusted size of USD 2389 million by 2031 with a CAGR of 4.8% during review period.

Gas Chromatography (GC): Gas chromatography is an analytical technique used to separate and analyze volatile compounds in a sample. The sample is vaporized and carried by an inert gas (carrier gas) through a column containing a stationary phase. Different compounds are separated based on their interactions with the stationary phase and are detected as they exit the column.

Gas Chromatograph-Mass Spectrometer (GC-MS): GC-MS combines the separation capabilities of gas chromatography with the identification and quantification precision of mass spectrometry. GC separates the sample into individual components, and MS identifies and measures them based on their mass-to-charge ratios, making GC-MS a powerful tool for analyzing complex mixtures.

The markets for both Gas Chromatography (GC) and Gas Chromatograph-Mass Spectrometry (GC-MS) are driven by their growing adoption across multiple industries, including environmental monitoring, food and beverage testing, pharmaceuticals, and petrochemicals. GC and GC-MS are essential for detecting and analyzing volatile and semi-volatile organic compounds, meeting the increasing demand for regulatory compliance in areas such as pollution control, drug testing, and food safety. Their versatility and precision make them indispensable tools for quality control and research applications.

A key challenge for the GC and GC-MS markets is the high cost of instruments and

operational expenses, which can limit their accessibility for smaller enterprises and laboratories in developing regions. Additionally, these technologies require skilled operators to manage the systems and interpret complex data accurately. The lack of trained personnel and high maintenance costs create barriers to adoption, particularly in resource-constrained settings, slowing market growth despite the increasing demand for advanced analytical solutions.

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

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

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

Global GC and GC-MS market shares of main players, shipments in revenue (\$ Million), sales quantity (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 GC and GC-MS

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global GC and GC-MS 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 Agilent Technology, Shimadzu, PerkinElmer, Thermo Fisher Scientific, Bruker, Techcomp, LECO, Beifen-Ruili, Fuli Instruments, GL Sciences, etc.

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

Market Segmentation

GC and GC-MS 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

Gas Chromatography System

GC-MS Systems

Market segment by Application

General & Environmental Testing

Agriculture & Food

Academia

Oil & Gas

Government Test

Others

Major players covered

Agilent Technology

Shimadzu

PerkinElmer

Thermo Fisher Scientific

Bruker

Techcomp

LECO

Beifen-Ruili

Fuli Instruments

GL Sciences

Suzhou Anyeep

Beijing PERSEE

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 GC and GC-MS product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GC and GC-MS, with price, sales quantity, revenue, and global market share of GC and GC-MS from 2020 to 2025.

Chapter 3, the GC and GC-MS competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GC and GC-MS 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 GC and GC-MS 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 GC and GC-MS.

Chapter 14 and 15, to describe GC and GC-MS sales channel, distributors, customers, research findings and conclusion.

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