

Global Monolithic Chromatography Column Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Monolithic Chromatography Column market size was valued at US\$ 345 million in 2025 and is forecast to a readjusted size of US\$ 1014 million by 2032 with a CAGR of 16.6% during review period.

Monolithic chromatography columns are separation columns in which a continuous porous stationary phase replaces traditional packed beds of particulate media. Common formats include silica-based monoliths and polymer-based monoliths, which feature a bimodal pore architecture consisting of large flow-through channels and mesoporous structures. This design enables convective mass transfer, resulting in low backpressure, high flow rates, and short diffusion distances. These columns are used in high-performance liquid chromatography (HPLC), rapid bioanalysis of macromolecules, and purification workflows for antibodies, plasmids, viral vectors, vaccines, and virus particles. Their main advantages include high throughput, low column-to-column variability, and relatively straightforward scale-up pathways. The estimated gross margin is approximately 62%.

Demand for monolithic columns is primarily driven by the growing needs of biopharmaceutical analytics and advanced therapy purification. Large biomolecules such as antibodies, viral vectors, plasmid DNA, and mRNA intermediates require faster mass transfer than conventional bead-based resins can provide. Monolithic structures, relying on convective flow rather than intraparticle diffusion, significantly reduce analysis and processing time while improving method robustness during early-stage development and analytical workflows.

On the supply side, silica monoliths are mainly used for small molecules and peptide/protein fast analysis, while polymer monoliths are more suitable for large biomolecules such as viruses, plasmids, and high-molecular-weight proteins. Procurement decisions are typically based on matrix type, separation mode, column dimensions, dynamic binding capacity, pressure tolerance, cleaning durability, and compatibility with existing LC or chromatography systems.

This segment remains a high-value niche within chromatography columns. The number of suppliers is smaller than for conventional particulate columns, but pricing and technical barriers are higher. Future growth depends largely on the transition of advanced therapy programs from R&D to clinical and commercial production, while analytical monolithic columns are expected to maintain steady demand in high-throughput quality control, complex sample screening, and LC-MS workflows.

This report is a detailed and comprehensive analysis for global Monolithic Chromatography Column 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 Monolithic Chromatography Column market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Monolithic Chromatography Column market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Monolithic Chromatography Column market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Monolithic Chromatography Column market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Monolithic Chromatography Column

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 Monolithic Chromatography Column 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 Sartorius, Merck, Agilent Technologies, Thermo Fisher Scientific, Phenomenex, GL Sciences, Bio-Rad, Kyoto Monotech, etc.

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

Market Segmentation

Monolithic Chromatography Column market is split by Type and by Application. For the period 2021-2032, 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

Silica Monolithic Columns

Polymer Monolithic Columns

Hybrid Monolithic Columns

Other Monolithic Columns

Market segment by Separation Mode

Reversed-Phase Monolithic Columns

Ion-Exchange Monolithic Columns

Affinity Monolithic Columns

HILIC and Normal-Phase Monolithic Columns

Other Separation Modes

Market segment by Operating Scale

Analytical Monolithic Columns

Capillary and Nano Monolithic Columns

Preparative Monolithic Columns

Process-Scale Monolithic Columns

Market segment by Column Format

Standard-Bore HPLC Columns

Narrow-Bore HPLC Columns

Capillary Columns

Short Disk Columns

Large-Volume Modules

Custom Columns

Market segment by Application

Small-Molecule Rapid Analysis

Peptide and Protein LC-MS

Antibody Titer and Charge Variant Analysis

Plasmid and Viral Vector Purification

Vaccine and Virus Purification

Method Development and Screening

Major players covered

Sartorius

Merck

Agilent Technologies

Thermo Fisher Scientific

Phenomenex

GL Sciences

Bio-Rad

Kyoto Monotech

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 Monolithic Chromatography Column product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Monolithic Chromatography Column, with price, sales quantity, revenue, and global market share of Monolithic Chromatography Column from 2021 to 2026.

Chapter 3, the Monolithic Chromatography Column competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Monolithic Chromatography Column breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Monolithic Chromatography Column market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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

Monolithic Chromatography Column.

Chapter 14 and 15, to describe Monolithic Chromatography Column sales channel, distributors, customers, research findings and conclusion.

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