

Global Mass Flow Controller Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mass Flow Controller market size is expected to reach \$ 2334 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

In 2025, global Mass Flow Controller production reached approximately 1.51 million units with average price of 990 USD per unit.

A Mass Flow Controller (MFC) is an automated control device used to accurately measure and regulate the mass flow rate of gases or liquids. Its core function is to maintain a stable target flow rate at a set value even under fluctuating temperature and pressure conditions. An MFC typically consists of a flow sensor, control valve, electronic control unit, and communication interface, achieving high-precision regulation through closed-loop feedback. Compared to ordinary flow meters, MFCs not only 'measure' but also emphasize 'control,' directly participating in equipment operation and process stability. Their products are widely used in semiconductors, photovoltaics, chemicals, pharmaceuticals, analytical instruments, fuel cells, laboratory equipment, environmental monitoring, and industrial gas delivery systems, serving as a key fundamental component in precision fluid control.

The upstream of the MFC industry chain mainly includes metal materials and special alloys, sensor chips, valve bodies, seals, electronic components, PCBs, connectors, and precision-machined parts. Material purity, machining accuracy, and the reliability of core components directly affect the overall performance of the device. The midstream consists of MFC design, manufacturing, assembly, calibration, and testing manufacturers. The core barriers to entry lie in sensing algorithms, valve control capabilities, calibration databases, media compatibility experience, long-term stability, and batch consistency. Downstream applications cover semiconductor equipment,

industrial gas systems, laboratory instruments, environmental monitoring, medical equipment, hydrogen energy equipment, chemical and pharmaceutical equipment manufacturers and end users. Overall, MFC is not a completely standardized product and often requires customization or selection based on flow range, medium type, pressure level, communication protocol and application scenario. Therefore, the industry has certain technical barriers, verification barriers and customer loyalty.

The Mass Flow Controller (MFC) market is poised for substantial growth over the coming years, driven by the increasing demand for precise gas and liquid flow measurement and control across a wide array of high-tech and industrial applications, including semiconductor fabrication, photovoltaic and display panel manufacturing, chemical and pharmaceutical processing, energy production, environmental monitoring, and laboratory research; in semiconductor manufacturing, the adoption of advanced processes such as atomic layer deposition (ALD), chemical vapor deposition (CVD), and etching requires highly accurate and repeatable gas delivery systems, which are provided by MFCs to ensure wafer uniformity and yield, while the growing solar energy and LED markets further drive the need for precise gas flow in thin-film deposition and material synthesis; in pharmaceuticals and chemicals, stringent quality control standards and regulatory compliance necessitate accurate dosing and mixing of reactive or specialty gases, where MFCs ensure both safety and process reliability; additionally, the emergence of microelectronics, MEMS devices, and high-purity applications has elevated the demand for low-flow and ultra-precise MFCs capable of handling corrosive, toxic, or high-purity gases; the market is further bolstered by trends in automation, Industry 4.0, and smart manufacturing, where integrated MFCs with digital communication protocols (such as RS-485, EtherCAT, and Fieldbus) allow for real-time process monitoring, remote control, and predictive maintenance, increasing operational efficiency and reducing downtime; technological innovations in compact, high-response, and multifunctional MFCs expand their applicability into new industrial segments, while geographic expansion in Asia-Pacific, particularly in China, South Korea, and India, driven by electronics, chemical, and energy industries, provides additional growth opportunities; combined with increasing investments in research and development, rising demand for energy-efficient and environmentally compliant processes, and continuous improvement in accuracy, repeatability, and reliability, the global mass flow controller market is expected to experience robust long-term expansion, making it an attractive sector for equipment manufacturers, process integrators, and investors seeking to capitalize on the rising complexity and precision requirements of modern industrial and laboratory processes.

This report studies the global Mass Flow Controller production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mass Flow Controller 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 Mass Flow Controller that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mass Flow Controller total production and demand, 2021-2032, (K Units)

Global Mass Flow Controller total production value, 2021-2032, (USD Million)

Global Mass Flow Controller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Mass Flow Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Mass Flow Controller domestic production, consumption, key domestic manufacturers and share

Global Mass Flow Controller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Mass Flow Controller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Mass Flow Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Mass Flow Controller 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 HORIBA, Bronkhorst, Beijing Aurasky Electronics Co., Ltd, MKS Instruments, Brooks, B?rkert, TOKYO KEISO CO.,LTD, Sensirion, AZBIL, Sierra Instruments, 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 Mass Flow Controller market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (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 Mass Flow Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mass Flow Controller Market, Segmentation by Type:

Digital Type

Analog Type

Global Mass Flow Controller Market, Segmentation by Technology:

Thermal Type MFC

Pressure Type MFC

Coriolis MFC

Global Mass Flow Controller Market, Segmentation by Gas Type:

Standard Process Gas MFC

Corrosive Gas MFC

Global Mass Flow Controller Market, Segmentation by Application:

Semiconductor Manufacturing

FPD Industry

Vacuum Coating

General Industry

Photovoltaic Industry

Fuel Cell

Analytical Instrument

Scientific Research

Others

Companies Profiled:

HORIBA

Bronkhorst

Beijing Aurasky Electronics Co., Ltd

MKS Instruments

Brooks

B?rkert

TOKYO KEISO CO.,LTD

Sensirion

AZBIL

Sierra Instruments

Teledyne

Omega

Kuwana Metals, Ltd

Parker Hannifin

Kofloc

ACCU

Fujikin

Pivotal Systems

MKP

Alicat

Lintec

AXETRIS

V?gtlin Instruments GmbH

ACE

Jiangsu Gao Kai Precision

Xinnovis

Key Questions Answered:

1. How big is the global Mass Flow Controller market?
2. What is the demand of the global Mass Flow Controller market?
3. What is the year over year growth of the global Mass Flow Controller market?
4. What is the production and production value of the global Mass Flow Controller market?
5. Who are the key producers in the global Mass Flow Controller market?
6. What are the growth factors driving the market demand?

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