

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

<https://marketpublishers.com/r/GD77704049A0EN.html>

Date: June 2026

Pages: 141

Price: US\$ 4,480.00 (Single User License)

ID: GD77704049A0EN

Abstracts

The global Semiconductor Mass Flow Controller market size is expected to reach \$ 1663 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

In 2025, global Semiconductor Mass Flow Controller production reached approximately 947.31 k units with average price of 1,095 USD per unit.

A semiconductor mass flow controller (MFC) is a core component used to accurately measure and regulate the flow rate of process gases. It is widely used in semiconductor manufacturing equipment for etching, CVD, PVD, ALD, diffusion, ion implantation, and cleaning. Its basic principle is to use sensors to detect gas flow in real time and combine this with a control valve for closed-loop regulation, stabilizing the actual flow rate near a set value. The performance of the MFC directly affects the reaction rate, film thickness uniformity, etching accuracy, and yield within the chamber. Compared to ordinary industrial flow controllers, semiconductor MFCs emphasize high precision, high repeatability, low drift, fast response, corrosion resistance, and ultra-high cleanliness. They also need to be adaptable to various specialty gases, corrosive gases, and high-purity gas environments, making them an irreplaceable key fluid control component in semiconductor equipment.

The upstream of the semiconductor MFC industry chain mainly includes stainless steel and special alloy materials for valve bodies and pipelines, sensor chips, proportional control valves, seals, electronic components, PCBs, power modules, and precision-machined parts. Among these, material purity, processing accuracy, and sealing reliability have a significant impact on product performance. The midstream consists of MFC design, manufacturing, assembly, calibration, and testing companies, whose core

capabilities lie in sensing technology, valve control algorithms, gas databases, temperature and pressure compensation, long-term stability, and batch consistency. Downstream customers are primarily semiconductor equipment manufacturers, gas system integrators, and wafer fabrication, display panel, compound semiconductor, and photovoltaic clients. Overall, MFCs are not highly standardized general-purpose devices; rather, they require deep adaptation based on process platforms, gas types, and customer certification requirements. Therefore, the industry has high barriers to entry, long verification cycles, strong customer loyalty, and a clear advantage for leading manufacturers.

The semiconductor mass flow controller (MFC) market outlook is generally positive, driven by advancements in manufacturing processes, wafer fab expansion, equipment investment upgrades, and the continued increase in the use of specialty gases. As the complexity of logic chips, memory chips, power semiconductors, and third-generation semiconductor processes increases, equipment demands higher precision, response speed, corrosion resistance, and multi-gas compatibility in gas flow control, driving the evolution of MFCs towards higher performance, digitalization, and intelligence. Particularly in processes such as ALD, advanced etching, and high aspect ratio deposition, the importance of low-flow, high-precision control is further increasing, leading to a continuous rise in the unit value of high-end MFCs. Simultaneously, the regionalization and localization trends in the global semiconductor industry chain are creating opportunities for domestic substitution and supply chain restructuring in some regions. Although semiconductor capital expenditure fluctuates cyclically, and short-term demand is affected by factors such as the memory market, downstream consumer electronics, and geopolitics, in the medium to long term, the expansion of fields such as AI, high-performance computing, automotive electronics, and advanced packaging will continue to support the steady growth of the MFC market, indicating that the industry still has significant development potential.

This report studies the global Semiconductor Mass Flow Controller production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Semiconductor 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, Fujikin, Beijing Aurasky Electronics Co., Ltd, MKS Instruments, Kuwana Metals, Ltd, MKP, Brooks, AZBIL, Bronkhorst, Lintec, 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 Semiconductor 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 Semiconductor Mass Flow Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Mass Flow Controller Market, Segmentation by Type:

Thermal Type

Pressure Type

Global Semiconductor Mass Flow Controller Market, Segmentation by Control Type:

Digital Type

Analog Type

Global Semiconductor Mass Flow Controller Market, Segmentation by Gas Type:

Standard Process Gas MFC

Corrosive Gas MFC

Global Semiconductor Mass Flow Controller Market, Segmentation by Application:

Semiconductor Processing Furnace

PVD&CVD Equipment

Etching Equipment

Others

Companies Profiled:

HORIBA

Fujikin

Beijing Aurasky Electronics Co., Ltd

MKS Instruments

Kuwana Metals, Ltd

MKP

Brooks

AZBIL

Bronkhorst

Lintec

Kofloc

Sensirion

Pivotal Systems

Jiangsu Gao Kai Precision

Sierra Instruments

Xinnovis

Key Questions Answered:

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

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