

Global Mass Flow Controller for Semiconductor Market Growth 2026-2032

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Abstracts

The global Mass Flow Controller for Semiconductor market size is predicted to grow from US\$ 1031 million in 2025 to US\$ 1615 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

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

Mass Flow Controllers (MFCs) for semiconductor applications are critical components used to precisely measure and regulate the flow of process gases; they are widely deployed in equipment utilized for etching, thin-film deposition, diffusion, ion implantation, cleaning, as well as ALD, CVD, and PVD processes. Their core function involves executing closed-loop control over gas flow based on a setpoint, thereby ensuring the stability, consistency, and repeatability of process conditions within the reaction chamber. Compared to general industrial settings, semiconductor MFCs are subject to far more stringent requirements regarding precision, response speed, repeatability, cleanliness, corrosion resistance, and long-term drift control; consequently, they must typically be compatible with environments involving high-purity gases, specialty gases, and corrosive gases. In terms of technical architecture, mainstream products include thermal MFCs, differential pressure MFCs, and for a limited number of high-end applications, Coriolis MFCs, with thermal MFCs remaining the dominant solution within semiconductor manufacturing equipment.

The upstream segment of the semiconductor MFC industry chain primarily comprises suppliers of stainless steel and specialty alloy valve body materials, sensor elements, control valves, seals, electronic components, chips, PCBs, and precision-machined parts. Within this segment, material purity, sealing performance, and machining

precision directly determine the product's overall reliability and cleanliness rating. The midstream segment consists of manufacturers responsible for the design, fabrication, assembly, calibration, and testing of MFCs; their core competencies lie in their sensing algorithms, valve control capabilities, gas property databases, long-term stability, and their ability to secure certification from semiconductor equipment manufacturers. The downstream segment primarily comprises semiconductor equipment manufacturers, gas delivery system integrators, wafer fabrication plants (fabs), and a broader range of ?pan-semiconductor? customers?including those in the flat-panel display, compound semiconductor, and photovoltaic sectors. Overall, the MFC is not merely a generic, off-the-shelf component; rather, it is deeply integrated with specific equipment process platforms, gas types, and customer validation frameworks. Consequently, the industry is characterized by high technical barriers, significant certification hurdles, and strong customer stickiness.

The market outlook for semiconductor MFCs (Mass Flow Controllers) is generally positive, driven primarily by advancements in process technology, wafer fab capacity expansions, increased capital investment in equipment, and a sustained rise in the consumption of specialty gases. As the process complexity of logic, memory, power, and third-generation semiconductors continues to rise, equipment manufacturers are placing increasingly stringent demands on gas flow control?specifically regarding precision, response speed, and multi-gas compatibility?thereby driving the evolution of MFCs toward higher performance, digitalization, intelligence, and corrosion resistance. Concurrently, the development of processes such as ALD (Atomic Layer Deposition), advanced etching, and high-aspect-ratio deposition has spurred growing demand for low-flow, high-precision MFCs. Looking ahead, the industry is expected to exhibit three key trends: first, high-end product segments will continue to be dominated by technology leaders; second, the localization of supply chains will continue to advance within specific regional markets; and third, MFCs will evolve beyond being mere standalone flow-control components to become intelligent fluid-control nodes capable of integrating diagnostics, data feedback, and predictive maintenance functionalities. Overall, while fluctuations in the semiconductor capital expenditure cycle may impact short-term demand, the underlying logic for medium-to-long-term growth remains clear.

LP Information, Inc. (LPI) ' newest research report, the ?Mass Flow Controller for Semiconductor Industry Forecast? looks at past sales and reviews total world Mass Flow Controller for Semiconductor sales in 2025, providing a comprehensive analysis by region and market sector of projected Mass Flow Controller for Semiconductor sales for 2026 through 2032. With Mass Flow Controller for Semiconductor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in

US\$ millions of the world Mass Flow Controller for Semiconductor industry.

This Insight Report provides a comprehensive analysis of the global Mass Flow Controller for Semiconductor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Mass Flow Controller for Semiconductor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Mass Flow Controller for Semiconductor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Mass Flow Controller for Semiconductor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Mass Flow Controller for Semiconductor.

This report presents a comprehensive overview, market shares, and growth opportunities of Mass Flow Controller for Semiconductor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thermal Type

Pressure Type

Coriolis Type

Segmentation by Control Type:

Digital Type

Analog Type

Segmentation by Gas Type:

Standard Process Gas MFC

Corrosive Gas MFC

Segmentation by Application:

Semiconductor Processing Furnace

PVD&CVD Equipment

Etching Equipment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

HORIBA

Fujikin

MKS Instruments

Beijing Aurasky Electronics Co., Ltd

Hitachi Metals, Ltd

Pivotal Systems

MKP

AZBIL

Bronkhorst

Lintec

Kofloc

Brooks

Sensirion

Jiangsu Gao Kai Precision

Sierra Instruments

Key Questions Addressed in this Report

What is the 10-year outlook for the global Mass Flow Controller for Semiconductor market?

What factors are driving Mass Flow Controller for Semiconductor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Mass Flow Controller for Semiconductor market opportunities vary by end market size?

How does Mass Flow Controller for Semiconductor break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Mass Flow Controller for Semiconductor Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Mass Flow Controller for Semiconductor by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Mass Flow Controller for Semiconductor by Country/Region, 2021, 2025 & 2032

2.2 Mass Flow Controller for Semiconductor Segment by Type

- 2.2.1 Thermal Type
- 2.2.2 Pressure Type
- 2.2.3 Coriolis Type
- 2.2.4 Mass Flow Controller for Semiconductor Sales by Type
 - 2.2.4.1 Global Mass Flow Controller for Semiconductor Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Mass Flow Controller for Semiconductor Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Mass Flow Controller for Semiconductor Sale Price by Type (2021-2026)

2.3 Mass Flow Controller for Semiconductor Segment by Control Type

- 2.3.1 Digital Type
- 2.3.2 Analog Type
- 2.3.3 Mass Flow Controller for Semiconductor Sales by Control Type
 - 2.3.3.1 Global Mass Flow Controller for Semiconductor Sales Market Share by Control Type (2021-2026)
 - 2.3.3.2 Global Mass Flow Controller for Semiconductor Revenue and Market Share

by Control Type (2021-2026)

2.3.3.3 Global Mass Flow Controller for Semiconductor Sale Price by Control Type (2021-2026)

2.4 Mass Flow Controller for Semiconductor Segment by Gas Type

2.4.1 Standard Process Gas MFC

2.4.2 Corrosive Gas MFC

2.4.3 Mass Flow Controller for Semiconductor Sales by Gas Type

2.4.3.1 Global Mass Flow Controller for Semiconductor Sales Market Share by Gas Type (2021-2026)

2.4.3.2 Global Mass Flow Controller for Semiconductor Revenue and Market Share by Gas Type (2021-2026)

2.4.3.3 Global Mass Flow Controller for Semiconductor Sale Price by Gas Type (2021-2026)

2.5 Mass Flow Controller for Semiconductor Segment by Application

2.5.1 Semiconductor Processing Furnace

2.5.2 PVD&CVD Equipment

2.5.3 Etching Equipment

2.5.4 Others

2.5.5 Mass Flow Controller for Semiconductor Sales by Application

2.5.5.1 Global Mass Flow Controller for Semiconductor Sale Market Share by Application (2021-2026)

2.5.5.2 Global Mass Flow Controller for Semiconductor Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Mass Flow Controller for Semiconductor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Mass Flow Controller for Semiconductor Breakdown Data by Company

3.1.1 Global Mass Flow Controller for Semiconductor Annual Sales by Company (2021-2026)

3.1.2 Global Mass Flow Controller for Semiconductor Sales Market Share by Company (2021-2026)

3.2 Global Mass Flow Controller for Semiconductor Annual Revenue by Company (2021-2026)

3.2.1 Global Mass Flow Controller for Semiconductor Revenue by Company (2021-2026)

3.2.2 Global Mass Flow Controller for Semiconductor Revenue Market Share by Company (2021-2026)

- 3.3 Global Mass Flow Controller for Semiconductor Sale Price by Company
- 3.4 Key Manufacturers Mass Flow Controller for Semiconductor Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Mass Flow Controller for Semiconductor Product Location Distribution
 - 3.4.2 Players Mass Flow Controller for Semiconductor Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MASS FLOW CONTROLLER FOR SEMICONDUCTOR BY GEOGRAPHIC REGION

- 4.1 World Historic Mass Flow Controller for Semiconductor Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Mass Flow Controller for Semiconductor Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Mass Flow Controller for Semiconductor Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Mass Flow Controller for Semiconductor Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Mass Flow Controller for Semiconductor Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Mass Flow Controller for Semiconductor Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Mass Flow Controller for Semiconductor Sales Growth
- 4.4 APAC Mass Flow Controller for Semiconductor Sales Growth
- 4.5 Europe Mass Flow Controller for Semiconductor Sales Growth
- 4.6 Middle East & Africa Mass Flow Controller for Semiconductor Sales Growth

5 AMERICAS

- 5.1 Americas Mass Flow Controller for Semiconductor Sales by Country
 - 5.1.1 Americas Mass Flow Controller for Semiconductor Sales by Country (2021-2026)
 - 5.1.2 Americas Mass Flow Controller for Semiconductor Revenue by Country (2021-2026)
- 5.2 Americas Mass Flow Controller for Semiconductor Sales by Type (2021-2026)

5.3 Americas Mass Flow Controller for Semiconductor Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Mass Flow Controller for Semiconductor Sales by Region

6.1.1 APAC Mass Flow Controller for Semiconductor Sales by Region (2021-2026)

6.1.2 APAC Mass Flow Controller for Semiconductor Revenue by Region (2021-2026)

6.2 APAC Mass Flow Controller for Semiconductor Sales by Type (2021-2026)

6.3 APAC Mass Flow Controller for Semiconductor Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Mass Flow Controller for Semiconductor by Country

7.1.1 Europe Mass Flow Controller for Semiconductor Sales by Country (2021-2026)

7.1.2 Europe Mass Flow Controller for Semiconductor Revenue by Country (2021-2026)

7.2 Europe Mass Flow Controller for Semiconductor Sales by Type (2021-2026)

7.3 Europe Mass Flow Controller for Semiconductor Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Mass Flow Controller for Semiconductor by Country

8.1.1 Middle East & Africa Mass Flow Controller for Semiconductor Sales by Country

(2021-2026)

8.1.2 Middle East & Africa Mass Flow Controller for Semiconductor Revenue by Country (2021-2026)

8.2 Middle East & Africa Mass Flow Controller for Semiconductor Sales by Type (2021-2026)

8.3 Middle East & Africa Mass Flow Controller for Semiconductor Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Mass Flow Controller for Semiconductor

10.3 Manufacturing Process Analysis of Mass Flow Controller for Semiconductor

10.4 Industry Chain Structure of Mass Flow Controller for Semiconductor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Mass Flow Controller for Semiconductor Distributors

11.3 Mass Flow Controller for Semiconductor Customer

12 WORLD FORECAST REVIEW FOR MASS FLOW CONTROLLER FOR SEMICONDUCTOR BY GEOGRAPHIC REGION

12.1 Global Mass Flow Controller for Semiconductor Market Size Forecast by Region

12.1.1 Global Mass Flow Controller for Semiconductor Forecast by Region

(2027-2032)

12.1.2 Global Mass Flow Controller for Semiconductor Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Mass Flow Controller for Semiconductor Forecast by Type (2027-2032)

12.7 Global Mass Flow Controller for Semiconductor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 HORIBA

13.1.1 HORIBA Company Information

13.1.2 HORIBA Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.1.3 HORIBA Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 HORIBA Main Business Overview

13.1.5 HORIBA Latest Developments

13.2 Fujikin

13.2.1 Fujikin Company Information

13.2.2 Fujikin Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.2.3 Fujikin Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Fujikin Main Business Overview

13.2.5 Fujikin Latest Developments

13.3 MKS Instruments

13.3.1 MKS Instruments Company Information

13.3.2 MKS Instruments Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.3.3 MKS Instruments Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 MKS Instruments Main Business Overview

13.3.5 MKS Instruments Latest Developments

13.4 Beijing Aurasky Electronics Co., Ltd

13.4.1 Beijing Aurasky Electronics Co., Ltd Company Information

13.4.2 Beijing Aurasky Electronics Co., Ltd Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.4.3 Beijing Aurasky Electronics Co., Ltd Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Beijing Aurasky Electronics Co., Ltd Main Business Overview

13.4.5 Beijing Aurasky Electronics Co., Ltd Latest Developments

13.5 Hitachi Metals, Ltd

13.5.1 Hitachi Metals, Ltd Company Information

13.5.2 Hitachi Metals, Ltd Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.5.3 Hitachi Metals, Ltd Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Hitachi Metals, Ltd Main Business Overview

13.5.5 Hitachi Metals, Ltd Latest Developments

13.6 Pivotal Systems

13.6.1 Pivotal Systems Company Information

13.6.2 Pivotal Systems Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.6.3 Pivotal Systems Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Pivotal Systems Main Business Overview

13.6.5 Pivotal Systems Latest Developments

13.7 MKP

13.7.1 MKP Company Information

13.7.2 MKP Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.7.3 MKP Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 MKP Main Business Overview

13.7.5 MKP Latest Developments

13.8 AZBIL

13.8.1 AZBIL Company Information

13.8.2 AZBIL Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.8.3 AZBIL Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 AZBIL Main Business Overview

13.8.5 AZBIL Latest Developments

13.9 Bronkhorst

- 13.9.1 Bronkhorst Company Information
- 13.9.2 Bronkhorst Mass Flow Controller for Semiconductor Product Portfolios and Specifications
- 13.9.3 Bronkhorst Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.9.4 Bronkhorst Main Business Overview
- 13.9.5 Bronkhorst Latest Developments
- 13.10 Lintec
 - 13.10.1 Lintec Company Information
 - 13.10.2 Lintec Mass Flow Controller for Semiconductor Product Portfolios and Specifications
 - 13.10.3 Lintec Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Lintec Main Business Overview
 - 13.10.5 Lintec Latest Developments
- 13.11 Kofloc
 - 13.11.1 Kofloc Company Information
 - 13.11.2 Kofloc Mass Flow Controller for Semiconductor Product Portfolios and Specifications
 - 13.11.3 Kofloc Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Kofloc Main Business Overview
 - 13.11.5 Kofloc Latest Developments
- 13.12 Brooks
 - 13.12.1 Brooks Company Information
 - 13.12.2 Brooks Mass Flow Controller for Semiconductor Product Portfolios and Specifications
 - 13.12.3 Brooks Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Brooks Main Business Overview
 - 13.12.5 Brooks Latest Developments
- 13.13 Sensirion
 - 13.13.1 Sensirion Company Information
 - 13.13.2 Sensirion Mass Flow Controller for Semiconductor Product Portfolios and Specifications
 - 13.13.3 Sensirion Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Sensirion Main Business Overview
 - 13.13.5 Sensirion Latest Developments

13.14 Jiangsu Gao Kai Precision

13.14.1 Jiangsu Gao Kai Precision Company Information

13.14.2 Jiangsu Gao Kai Precision Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.14.3 Jiangsu Gao Kai Precision Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Jiangsu Gao Kai Precision Main Business Overview

13.14.5 Jiangsu Gao Kai Precision Latest Developments

13.15 Sierra Instruments

13.15.1 Sierra Instruments Company Information

13.15.2 Sierra Instruments Mass Flow Controller for Semiconductor Product Portfolios and Specifications

13.15.3 Sierra Instruments Mass Flow Controller for Semiconductor Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Sierra Instruments Main Business Overview

13.15.5 Sierra Instruments Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Mass Flow Controller for Semiconductor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Mass Flow Controller for Semiconductor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Thermal Type

Table 4. Major Players of Pressure Type

Table 5. Major Players of Coriolis Type

Table 6. Global Mass Flow Controller for Semiconductor Sales by Type (2021-2026) & (K Units)

Table 7. Global Mass Flow Controller for Semiconductor Sales Market Share by Type (2021-2026)

Table 8. Global Mass Flow Controller for Semiconductor Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Mass Flow Controller for Semiconductor Revenue Market Share by Type (2021-2026)

Table 10. Global Mass Flow Controller for Semiconductor Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Digital Type

Table 12. Major Players of Analog Type

Table 13. Global Mass Flow Controller for Semiconductor Sales by Control Type (2021-2026) & (K Units)

Table 14. Global Mass Flow Controller for Semiconductor Sales Market Share by Control Type (2021-2026)

Table 15. Global Mass Flow Controller for Semiconductor Revenue by Control Type (2021-2026) & (\$ million)

Table 16. Global Mass Flow Controller for Semiconductor Revenue Market Share by Control Type (2021-2026)

Table 17. Global Mass Flow Controller for Semiconductor Sale Price by Control Type (2021-2026) & (US\$/Unit)

Table 18. Major Players of Standard Process Gas MFC

Table 19. Major Players of Corrosive Gas MFC

Table 20. Global Mass Flow Controller for Semiconductor Sales by Gas Type (2021-2026) & (K Units)

Table 21. Global Mass Flow Controller for Semiconductor Sales Market Share by Gas Type (2021-2026)

Table 22. Global Mass Flow Controller for Semiconductor Revenue by Gas Type (2021-2026) & (\$ million)

Table 23. Global Mass Flow Controller for Semiconductor Revenue Market Share by Gas Type (2021-2026)

Table 24. Global Mass Flow Controller for Semiconductor Sale Price by Gas Type (2021-2026) & (US\$/Unit)

Table 25. Global Mass Flow Controller for Semiconductor Sale by Application (2021-2026) & (K Units)

Table 26. Global Mass Flow Controller for Semiconductor Sale Market Share by Application (2021-2026)

Table 27. Global Mass Flow Controller for Semiconductor Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Mass Flow Controller for Semiconductor Revenue Market Share by Application (2021-2026)

Table 29. Global Mass Flow Controller for Semiconductor Sale Price by Application (2021-2026) & (US\$/Unit)

Table 30. Global Mass Flow Controller for Semiconductor Sales by Company (2021-2026) & (K Units)

Table 31. Global Mass Flow Controller for Semiconductor Sales Market Share by Company (2021-2026)

Table 32. Global Mass Flow Controller for Semiconductor Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global Mass Flow Controller for Semiconductor Revenue Market Share by Company (2021-2026)

Table 34. Global Mass Flow Controller for Semiconductor Sale Price by Company (2021-2026) & (US\$/Unit)

Table 35. Key Manufacturers Mass Flow Controller for Semiconductor Producing Area Distribution and Sales Area

Table 36. Players Mass Flow Controller for Semiconductor Products Offered

Table 37. Mass Flow Controller for Semiconductor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global Mass Flow Controller for Semiconductor Sales by Geographic Region (2021-2026) & (K Units)

Table 41. Global Mass Flow Controller for Semiconductor Sales Market Share Geographic Region (2021-2026)

Table 42. Global Mass Flow Controller for Semiconductor Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Mass Flow Controller for Semiconductor Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global Mass Flow Controller for Semiconductor Sales by Country/Region (2021-2026) & (K Units)

Table 45. Global Mass Flow Controller for Semiconductor Sales Market Share by Country/Region (2021-2026)

Table 46. Global Mass Flow Controller for Semiconductor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global Mass Flow Controller for Semiconductor Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Mass Flow Controller for Semiconductor Sales by Country (2021-2026) & (K Units)

Table 49. Americas Mass Flow Controller for Semiconductor Sales Market Share by Country (2021-2026)

Table 50. Americas Mass Flow Controller for Semiconductor Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Mass Flow Controller for Semiconductor Sales by Type (2021-2026) & (K Units)

Table 52. Americas Mass Flow Controller for Semiconductor Sales by Application (2021-2026) & (K Units)

Table 53. APAC Mass Flow Controller for Semiconductor Sales by Region (2021-2026) & (K Units)

Table 54. APAC Mass Flow Controller for Semiconductor Sales Market Share by Region (2021-2026)

Table 55. APAC Mass Flow Controller for Semiconductor Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Mass Flow Controller for Semiconductor Sales by Type (2021-2026) & (K Units)

Table 57. APAC Mass Flow Controller for Semiconductor Sales by Application (2021-2026) & (K Units)

Table 58. Europe Mass Flow Controller for Semiconductor Sales by Country (2021-2026) & (K Units)

Table 59. Europe Mass Flow Controller for Semiconductor Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Mass Flow Controller for Semiconductor Sales by Type (2021-2026) & (K Units)

Table 61. Europe Mass Flow Controller for Semiconductor Sales by Application (2021-2026) & (K Units)

Table 62. Middle East & Africa Mass Flow Controller for Semiconductor Sales by

Country (2021-2026) & (K Units)

Table 63. Middle East & Africa Mass Flow Controller for Semiconductor Revenue
Market Share by Country (2021-2026)

Table 64. Middle East & Africa Mass Flow Controller for Semiconductor Sales by Type
(2021-2026) & (K Units)

Table 65. Middle East & Africa Mass Flow Controller for Semiconductor Sales by
Application (2021-2026) & (K Units)

Table 66. Key Market Drivers & Growth Opportunities of Mass Flow Controller for
Semiconductor

Table 67. Key Market Challenges & Risks of Mass Flow Controller for Semiconductor

Table 68. Key Industry Trends of Mass Flow Controller for Semiconductor

Table 69. Mass Flow Controller for Semiconductor Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. Mass Flow Controller for Semiconductor Distributors List

Table 72. Mass Flow Controller for Semiconductor Customer List

Table 73. Global Mass Flow Controller for Semiconductor Sales Forecast by Region
(2027-2032) & (K Units)

Table 74. Global Mass Flow Controller for Semiconductor Revenue Forecast by Region
(2027-2032) & (\$ millions)

Table 75. Americas Mass Flow Controller for Semiconductor Sales Forecast by Country
(2027-2032) & (K Units)

Table 76. Americas Mass Flow Controller for Semiconductor Annual Revenue Forecast
by Country (2027-2032) & (\$ millions)

Table 77. APAC Mass Flow Controller for Semiconductor Sales Forecast by Region
(2027-2032) & (K Units)

Table 78. APAC Mass Flow Controller for Semiconductor Annual Revenue Forecast by
Region (2027-2032) & (\$ millions)

Table 79. Europe Mass Flow Controller for Semiconductor Sales Forecast by Country
(2027-2032) & (K Units)

Table 80. Europe Mass Flow Controller for Semiconductor Revenue Forecast by
Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa Mass Flow Controller for Semiconductor Sales Forecast
by Country (2027-2032) & (K Units)

Table 82. Middle East & Africa Mass Flow Controller for Semiconductor Revenue
Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global Mass Flow Controller for Semiconductor Sales Forecast by Type
(2027-2032) & (K Units)

Table 84. Global Mass Flow Controller for Semiconductor Revenue Forecast by Type
(2027-2032) & (\$ millions)

Table 85. Global Mass Flow Controller for Semiconductor Sales Forecast by Application (2027-2032) & (K Units)

Table 86. Global Mass Flow Controller for Semiconductor Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. HORIBA Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 88. HORIBA Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 89. HORIBA Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. HORIBA Main Business

Table 91. HORIBA Latest Developments

Table 92. Fujikin Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 93. Fujikin Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 94. Fujikin Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Fujikin Main Business

Table 96. Fujikin Latest Developments

Table 97. MKS Instruments Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 98. MKS Instruments Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 99. MKS Instruments Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. MKS Instruments Main Business

Table 101. MKS Instruments Latest Developments

Table 102. Beijing Aurasky Electronics Co., Ltd Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 103. Beijing Aurasky Electronics Co., Ltd Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 104. Beijing Aurasky Electronics Co., Ltd Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Beijing Aurasky Electronics Co., Ltd Main Business

Table 106. Beijing Aurasky Electronics Co., Ltd Latest Developments

Table 107. Hitachi Metals, Ltd Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 108. Hitachi Metals, Ltd Mass Flow Controller for Semiconductor Product

Portfolios and Specifications

Table 109. Hitachi Metals, Ltd Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Hitachi Metals, Ltd Main Business

Table 111. Hitachi Metals, Ltd Latest Developments

Table 112. Pivotal Systems Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 113. Pivotal Systems Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 114. Pivotal Systems Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Pivotal Systems Main Business

Table 116. Pivotal Systems Latest Developments

Table 117. MKP Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 118. MKP Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 119. MKP Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. MKP Main Business

Table 121. MKP Latest Developments

Table 122. AZBIL Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 123. AZBIL Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 124. AZBIL Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. AZBIL Main Business

Table 126. AZBIL Latest Developments

Table 127. Bronkhorst Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 128. Bronkhorst Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 129. Bronkhorst Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Bronkhorst Main Business

Table 131. Bronkhorst Latest Developments

Table 132. Lintec Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 133. Lintec Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 134. Lintec Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Lintec Main Business

Table 136. Lintec Latest Developments

Table 137. Kofloc Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 138. Kofloc Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 139. Kofloc Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. Kofloc Main Business

Table 141. Kofloc Latest Developments

Table 142. Brooks Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 143. Brooks Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 144. Brooks Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 145. Brooks Main Business

Table 146. Brooks Latest Developments

Table 147. Sensirion Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 148. Sensirion Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 149. Sensirion Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 150. Sensirion Main Business

Table 151. Sensirion Latest Developments

Table 152. Jiangsu Gao Kai Precision Basic Information, Mass Flow Controller for Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 153. Jiangsu Gao Kai Precision Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 154. Jiangsu Gao Kai Precision Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 155. Jiangsu Gao Kai Precision Main Business

Table 156. Jiangsu Gao Kai Precision Latest Developments

Table 157. Sierra Instruments Basic Information, Mass Flow Controller for

Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 158. Sierra Instruments Mass Flow Controller for Semiconductor Product Portfolios and Specifications

Table 159. Sierra Instruments Mass Flow Controller for Semiconductor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 160. Sierra Instruments Main Business

Table 161. Sierra Instruments Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Mass Flow Controller for Semiconductor
- Figure 2. Mass Flow Controller for Semiconductor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Mass Flow Controller for Semiconductor Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Mass Flow Controller for Semiconductor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Mass Flow Controller for Semiconductor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Mass Flow Controller for Semiconductor Sales Market Share by Country/Region (2025)
- Figure 10. Mass Flow Controller for Semiconductor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Thermal Type
- Figure 12. Product Picture of Pressure Type
- Figure 13. Product Picture of Coriolis Type
- Figure 14. Global Mass Flow Controller for Semiconductor Sales Market Share by Type in 2026
- Figure 15. Global Mass Flow Controller for Semiconductor Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Digital Type
- Figure 17. Product Picture of Analog Type
- Figure 18. Global Mass Flow Controller for Semiconductor Sales Market Share by Control Type in 2026
- Figure 19. Global Mass Flow Controller for Semiconductor Revenue Market Share by Control Type (2021-2026)
- Figure 20. Product Picture of Standard Process Gas MFC
- Figure 21. Product Picture of Corrosive Gas MFC
- Figure 22. Global Mass Flow Controller for Semiconductor Sales Market Share by Gas Type in 2026
- Figure 23. Global Mass Flow Controller for Semiconductor Revenue Market Share by Gas Type (2021-2026)
- Figure 24. Mass Flow Controller for Semiconductor Consumed in Semiconductor

Processing Furnace

Figure 25. Global Mass Flow Controller for Semiconductor Market: Semiconductor Processing Furnace (2021-2026) & (K Units)

Figure 26. Mass Flow Controller for Semiconductor Consumed in PVD&CVD Equipment

Figure 27. Global Mass Flow Controller for Semiconductor Market: PVD&CVD Equipment (2021-2026) & (K Units)

Figure 28. Mass Flow Controller for Semiconductor Consumed in Etching Equipment

Figure 29. Global Mass Flow Controller for Semiconductor Market: Etching Equipment (2021-2026) & (K Units)

Figure 30. Mass Flow Controller for Semiconductor Consumed in Others

Figure 31. Global Mass Flow Controller for Semiconductor Market: Others (2021-2026) & (K Units)

Figure 32. Global Mass Flow Controller for Semiconductor Sale Market Share by Application (2025)

Figure 33. Global Mass Flow Controller for Semiconductor Revenue Market Share by Application in 2025

Figure 34. Mass Flow Controller for Semiconductor Sales by Company in 2025 (K Units)

Figure 35. Global Mass Flow Controller for Semiconductor Sales Market Share by Company in 2025

Figure 36. Mass Flow Controller for Semiconductor Revenue by Company in 2025 (\$ millions)

Figure 37. Global Mass Flow Controller for Semiconductor Revenue Market Share by Company in 2025

Figure 38. Global Mass Flow Controller for Semiconductor Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Mass Flow Controller for Semiconductor Revenue Market Share by Geographic Region in 2025

Figure 40. Americas Mass Flow Controller for Semiconductor Sales 2021-2026 (K Units)

Figure 41. Americas Mass Flow Controller for Semiconductor Revenue 2021-2026 (\$ millions)

Figure 42. APAC Mass Flow Controller for Semiconductor Sales 2021-2026 (K Units)

Figure 43. APAC Mass Flow Controller for Semiconductor Revenue 2021-2026 (\$ millions)

Figure 44. Europe Mass Flow Controller for Semiconductor Sales 2021-2026 (K Units)

Figure 45. Europe Mass Flow Controller for Semiconductor Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Mass Flow Controller for Semiconductor Sales 2021-2026 (K Units)

Figure 47. Middle East & Africa Mass Flow Controller for Semiconductor Revenue 2021-2026 (\$ millions)

Figure 48. Americas Mass Flow Controller for Semiconductor Sales Market Share by Country in 2025

Figure 49. Americas Mass Flow Controller for Semiconductor Revenue Market Share by Country (2021-2026)

Figure 50. Americas Mass Flow Controller for Semiconductor Sales Market Share by Type (2021-2026)

Figure 51. Americas Mass Flow Controller for Semiconductor Sales Market Share by Application (2021-2026)

Figure 52. United States Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Mass Flow Controller for Semiconductor Sales Market Share by Region in 2025

Figure 57. APAC Mass Flow Controller for Semiconductor Revenue Market Share by Region (2021-2026)

Figure 58. APAC Mass Flow Controller for Semiconductor Sales Market Share by Type (2021-2026)

Figure 59. APAC Mass Flow Controller for Semiconductor Sales Market Share by Application (2021-2026)

Figure 60. China Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Mass Flow Controller for Semiconductor Revenue Growth

2021-2026 (\$ millions)

Figure 67. Europe Mass Flow Controller for Semiconductor Sales Market Share by Country in 2025

Figure 68. Europe Mass Flow Controller for Semiconductor Revenue Market Share by Country (2021-2026)

Figure 69. Europe Mass Flow Controller for Semiconductor Sales Market Share by Type (2021-2026)

Figure 70. Europe Mass Flow Controller for Semiconductor Sales Market Share by Application (2021-2026)

Figure 71. Germany Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Mass Flow Controller for Semiconductor Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Mass Flow Controller for Semiconductor Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Mass Flow Controller for Semiconductor Sales Market Share by Application (2021-2026)

Figure 79. Egypt Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Mass Flow Controller for Semiconductor Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Mass Flow Controller for Semiconductor in 2026

Figure 85. Manufacturing Process Analysis of Mass Flow Controller for Semiconductor

Figure 86. Industry Chain Structure of Mass Flow Controller for Semiconductor

Figure 87. Channels of Distribution

Figure 88. Global Mass Flow Controller for Semiconductor Sales Market Forecast by Region (2027-2032)

Figure 89. Global Mass Flow Controller for Semiconductor Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Mass Flow Controller for Semiconductor Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Mass Flow Controller for Semiconductor Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Mass Flow Controller for Semiconductor Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Mass Flow Controller for Semiconductor Revenue Market Share Forecast by Application (2027-2032)

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