

Global MEMS Micropump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MEMS Micropump market size is expected to reach \$ 446 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Global sales of MEMS micropumps reached 19 million units in 2025, with an average price of \$13 per unit.

MEMS micropump, also known as microelectromechanical system micropump, is a small pump manufactured using micromachining technology. It can transport and control fluids on a microscopic scale. Its main working principle is to use the movement of the pump membrane to cause changes in the volume of the pump chamber, causing a pressure difference between the inside of the chamber and the outside world, and relying on the pressure difference to open and close the valve to achieve fluid pumping. MEMS micropumps are technically highly precise and controllable, able to achieve nanoscale liquid distribution, provide ultra-smooth and ultra-quiet droplet delivery, and have the ability to respond quickly and precisely. Its pumping accuracy reaches 5%. The raw materials for MEMS micropumps primarily consist of 4/6-inch single-crystal silicon wafers as the substrate, accounting for 25-30% of the material cost. Front-side PZT (lead zirconate titanate) or AlN piezoelectric thin films are deposited as the driving oscillator, with the target material and sputtering process accounting for 20-25%. Back-side deep silicon etching forms the cavity and valve port, requiring photoresist, SOI mask, and DRIE gas, totaling 10-15%. Packaging-grade adhesives, gold/aluminum wires, and glass/PDMS cover plates account for 5-10%. The remainder consists of ultrapure water and cleaning chemicals. Overall, silicon-based + piezoelectric materials account for 55-65% of the direct material cost. A 10% increase in silicon wafer price increases the cost per chip by approximately \$0.03-0.05, having a limited impact on high-volume medical-grade devices.

This report studies the global MEMS Micropump production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global MEMS Micropump total production and demand, 2021-2032, (K Units)

Global MEMS Micropump total production value, 2021-2032, (USD Million)

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

Global MEMS Micropump consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: MEMS Micropump domestic production, consumption, key domestic manufacturers and share

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

Global MEMS Micropump production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global MEMS Micropump production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global MEMS Micropump 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 Bartels Mikrotechnik, Takasago Electric, The Lee Company, Roche, Debiotech, Insulet, Eoflow, Microchip Technology, YW MEMS, Hengmic, 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 MEMS Micropump 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 MEMS Micropump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MEMS Micropump Market, Segmentation by Type:

Electrostatic Micropump

Thermopneumatic Micropump

Diaphragm Micropump

Jet Pump

Global MEMS Micropump Market, Segmentation by Valve Structure:

With Valve

Without Valve

Global MEMS Micropump Market, Segmentation by Flow Rate:

0.1?10 ?L/min

10?200 ?L/min

0.5?5 mL/min

Global MEMS Micropump Market, Segmentation by Application:

Medicine

Chemical Industry

Manufacturing

Others

Companies Profiled:

Bartels Mikrotechnik

Takasago Electric

The Lee Company

Roche

Debiotech

Insulet

Eoflow

Microchip Technology

YW MEMS

Hengmic

Key Questions Answered:

Global MEMS Micropump Supply, Demand and Key Producers, 2026-2032

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

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