

Global Micro-pumps Market Size study, by Product (Mechanical, Non-mechanical), by Application (Drug Delivery, In-vitro Diagnostics, Medical Devices), by End-use (Biotechnological & Pharmaceutical Companies, Hospitals & Diagnostic Centers, Academic & Research Institutes) and Regional Forecasts 2022-2032

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Abstracts

The global Micro-pumps Market was valued at approximately USD 2.1 billion in 2023 and is projected to expand at a robust CAGR of 17.7% during the forecast period from 2024 to 2032. Micro-pumps have become indispensable in medical and laboratory applications due to their precision and reliability. They play a pivotal role in drug delivery, in-vitro diagnostics, and medical devices, among other uses. Their capability to handle and dispense fluids with extraordinary accuracy has established them as a cornerstone in the advancement of biopharmaceutical processes and healthcare technologies.

The surge in demand for micro-pumps is driven by the rising prevalence of chronic diseases requiring effective and precise drug delivery solutions. Innovations in smart devices and advancements in wireless connectivity have further revolutionized the micro-pumps market. For instance, continuous glucose monitoring systems and other wearable healthcare devices now integrate micro-pump technology to ensure seamless and real-time medication administration, greatly enhancing patient compliance and treatment efficacy.

The post-pandemic era has underscored the criticality of micro-pumps in emergency healthcare solutions, including ventilators and nebulizers. During COVID-19, the

substantial production of emergency devices and diagnostic kits relied heavily on micro-pump technology, significantly boosting market growth. Simultaneously, emerging markets have witnessed escalated adoption rates as healthcare infrastructure undergoes rapid modernization, supported by increased government and private investments.

Geographically, North America holds the largest revenue share in the micro-pumps market due to high healthcare spending and a well-established biotechnology sector. Europe, with its robust pharmaceutical industry, continues to contribute significantly to market growth. However, Asia-Pacific is expected to witness the highest CAGR during the forecast period, driven by rising healthcare demands, increasing adoption of portable diagnostic devices, and substantial advancements in biotechnology and pharmaceuticals.

Major market players included in this report are:

Bartels Mikrotechnik GmbH

Berkert Fluid Control Systems

TOPS INDUSTRY & TECHNOLOGY CO., LTD.

The Lee Company

Xiamen AJK Technology Co., Ltd.

Xavitech

ALLDOO Micropump

Dolomite Microfluidics (Backtrace Holdings Ltd.)

Arcmed Group (Halma)

Servoflo Corporation

Parker Hannifin Corporation

KNF Neuberger Inc.

Watson-Marlow Fluid Technology Group

Advanced Microfluidics SA

Takasago Electric, Inc.

The detailed segments and sub-segment of the market are explained below:

By Product:

Mechanical

Piezoelectric Micro-pump

Peristaltic Pump

Others

Non-mechanical

By Application:

Drug Delivery

In-vitro Diagnostics

Medical Devices

Others

By End-use:

Biotechnological & Pharmaceutical Companies

Hospitals & Diagnostic Centers

Academic & Research Institutes

By Region:

North America:

U.S.

Canada

Mexico

Europe:

Germany

UK

France

Italy

Spain

Asia Pacific:

China

Japan

India

South Korea

Australia

Latin America:

Brazil

Argentina

Middle East & Africa:

South Africa

Saudi Arabia

UAE

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market

approach.

Demand-side and supply-side analysis of the market.

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