

Global Piezoelectric Micropumps Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Piezoelectric Micropumps market size was valued at USD 47 million in 2023 and is forecast to a readjusted size of USD 78 million by 2030 with a CAGR of 7.4% during review period.

A piezoelectric micropump is a compact fluidic device that uses the piezoelectric effect to generate fluid motion. (Natural minerals, artificial metals and ceramics are special materials that generate electrical energy when they are mechanically deformed. This phenomenon is called the piezoelectric effect.)

This process of utilizing the piezoelectric effect for fluid transport is called piezoelectric actuation. It usually has a very simple structure, requiring only a few components, such as a power supply to apply the necessary voltage to deform the piezoelectric material, a fluid chamber to contain the fluid, a valve to guide the direction of the water flow in the channel, and a piezoelectric ceramic element : Mechanical deformation occurs when voltage is applied.

Piezoelectric micropumps are particularly suitable for microfluidic and micropumping applications such as drug delivery systems, analytical instruments, lab-on-a-chip equipment, and electronic device cooling systems. Piezoelectric micropumps are valued for their small size, precise control, low power consumption, and suitability for applications requiring low flow rates or precise fluid handling in limited spaces.

The key players of Piezoelectric Micropumps include Murata Manufacturing, The Lee Company and Nippon Keiki Seisakusho, etc. The top three players hold a share over 42%. Asia-Pacific is the largest market, has a share about 88%. In terms of product

type, Piezoelectric Water Pumps is the largest segment, occupied for a share of about 66%, and for application, and in terms of application, Medical & Life Sciences has a share about 18%.

The Global Info Research report includes an overview of the development of the Piezoelectric Micropumps industry chain, the market status of Medical & Life Sciences (Piezoelectric Air Pumps, Piezoelectric Water Pumps), Consumer Electronics (Piezoelectric Air Pumps, Piezoelectric Water Pumps), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Piezoelectric Micropumps.

Regionally, the report analyzes the Piezoelectric Micropumps markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Piezoelectric Micropumps market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Piezoelectric Micropumps market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Piezoelectric Micropumps industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Piezoelectric Air Pumps, Piezoelectric Water Pumps).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Piezoelectric Micropumps market.

Regional Analysis: The report involves examining the Piezoelectric Micropumps market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Piezoelectric Micropumps market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Piezoelectric Micropumps:

Company Analysis: Report covers individual Piezoelectric Micropumps manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Piezoelectric Micropumps. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Medical & Life Sciences, Consumer Electronics).

Technology Analysis: Report covers specific technologies relevant to Piezoelectric Micropumps. It assesses the current state, advancements, and potential future developments in Piezoelectric Micropumps areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Piezoelectric Micropumps market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Piezoelectric Micropumps market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Piezoelectric Air Pumps

Piezoelectric Water Pumps

Market segment by Application

Medical & Life Sciences

Consumer Electronics

Household Appliances

Industrial Application

Others

Major players covered

Murata Manufacturing

The Lee Company

Nippon Keiki Seisakusho

MicroJet Technology

NITTO KOHKI

Takasago Electric

Bartels Mikrotechnik

Audiowell Electronics (Guangdong)

HeYi Precision Pump

Ion Science

Weitu Technologies

Maxclever Electric

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Piezoelectric Micropumps product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Piezoelectric Micropumps, with price, sales, revenue and global market share of Piezoelectric Micropumps from 2019 to 2024.

Chapter 3, the Piezoelectric Micropumps competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Piezoelectric Micropumps breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Piezoelectric Micropumps market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Piezoelectric Micropumps.

Chapter 14 and 15, to describe Piezoelectric Micropumps sales channel, distributors, customers, research findings and conclusion.

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