

Global Piezoelectric Liquid Micropumps Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Piezoelectric Liquid Micropumps market size was valued at US\$ 37 million in 2024 and is forecast to a readjusted size of USD 50.2 million by 2031 with a CAGR of 4.5% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

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.

This report is a detailed and comprehensive analysis for global Piezoelectric Liquid Micropumps market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Piezoelectric Liquid Micropumps market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Piezoelectric Liquid Micropumps market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Piezoelectric Liquid Micropumps market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Piezoelectric Liquid Micropumps market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Piezoelectric Liquid Micropumps
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Piezoelectric Liquid Micropumps market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include The Lee Company, Nippon Keiki Seisakusho, MicroJet Technology, NITTO KOHKI, Takasago Electric, Bartels Mikrotechnik, HeYi Precision Pump, Ion Science, Weitu Technologies, Maxclever

Electric, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Piezoelectric Liquid Micropumps market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Flow Rate ≤10 mL/min

Flow Rate >10 mL/min

Market segment by Application

Medical & Life Sciences

Consumer Electronics

Household Appliances

Industrial Application

Others

Major players covered

The Lee Company

Nippon Keiki Seisakusho

MicroJet Technology

NITTO KOHKI

Takasago Electric

Bartels Mikrotechnik

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 Liquid Micropumps product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Piezoelectric Liquid Micropumps, with price, sales quantity, revenue, and global market share of Piezoelectric Liquid Micropumps from 2020 to 2025.

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

Chapter 4, the Piezoelectric Liquid Micropumps breakdown data are shown at the

regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Piezoelectric Liquid Micropumps market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Liquid Micropumps.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Piezoelectric Liquid Micropumps Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Flow Rate ≤ 10 mL/min

1.3.3 Flow Rate > 10 mL/min

1.4 Market Analysis by Application

1.4.1 Overview: Global Piezoelectric Liquid Micropumps Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Medical & Life Sciences

1.4.3 Consumer Electronics

1.4.4 Household Appliances

1.4.5 Industrial Application

1.4.6 Others

1.5 Global Piezoelectric Liquid Micropumps Market Size & Forecast

1.5.1 Global Piezoelectric Liquid Micropumps Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Piezoelectric Liquid Micropumps Sales Quantity (2020-2031)

1.5.3 Global Piezoelectric Liquid Micropumps Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 The Lee Company

2.1.1 The Lee Company Details

2.1.2 The Lee Company Major Business

2.1.3 The Lee Company Piezoelectric Liquid Micropumps Product and Services

2.1.4 The Lee Company Piezoelectric Liquid Micropumps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 The Lee Company Recent Developments/Updates

2.2 Nippon Keiki Seisakusho

2.2.1 Nippon Keiki Seisakusho Details

2.2.2 Nippon Keiki Seisakusho Major Business

2.2.3 Nippon Keiki Seisakusho Piezoelectric Liquid Micropumps Product and Services

2.2.4 Nippon Keiki Seisakusho Piezoelectric Liquid Micropumps Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Nippon Keiki Seisakusho Recent Developments/Updates

2.3 MicroJet Technology

2.3.1 MicroJet Technology Details

2.3.2 MicroJet Technology Major Business

2.3.3 MicroJet Technology Piezoelectric Liquid Micropumps Product and Services

2.3.4 MicroJet Technology Piezoelectric Liquid Micropumps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 MicroJet Technology Recent Developments/Updates

2.4 NITTO KOHKI

2.4.1 NITTO KOHKI Details

2.4.2 NITTO KOHKI Major Business

2.4.3 NITTO KOHKI Piezoelectric Liquid Micropumps Product and Services

2.4.4 NITTO KOHKI Piezoelectric Liquid Micropumps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 NITTO KOHKI Recent Developments/Updates

2.5 Takasago Electric

2.5.1 Takasago Electric Details

2.5.2 Takasago Electric Major Business

2.5.3 Takasago Electric Piezoelectric Liquid Micropumps Product and Services

2.5.4 Takasago Electric Piezoelectric Liquid Micropumps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Takasago Electric Recent Developments/Updates

2.6 Bartels Mikrotechnik

2.6.1 Bartels Mikrotechnik Details

2.6.2 Bartels Mikrotechnik Major Business

2.6.3 Bartels Mikrotechnik Piezoelectric Liquid Micropumps Product and Services

2.6.4 Bartels Mikrotechnik Piezoelectric Liquid Micropumps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Bartels Mikrotechnik Recent Developments/Updates

2.7 HeYi Precision Pump

2.7.1 HeYi Precision Pump Details

2.7.2 HeYi Precision Pump Major Business

2.7.3 HeYi Precision Pump Piezoelectric Liquid Micropumps Product and Services

2.7.4 HeYi Precision Pump Piezoelectric Liquid Micropumps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 HeYi Precision Pump Recent Developments/Updates

2.8 Ion Science

2.8.1 Ion Science Details

- 2.8.2 Ion Science Major Business
- 2.8.3 Ion Science Piezoelectric Liquid Micropumps Product and Services
- 2.8.4 Ion Science Piezoelectric Liquid Micropumps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Ion Science Recent Developments/Updates
- 2.9 Weitu Technologies
 - 2.9.1 Weitu Technologies Details
 - 2.9.2 Weitu Technologies Major Business
 - 2.9.3 Weitu Technologies Piezoelectric Liquid Micropumps Product and Services
 - 2.9.4 Weitu Technologies Piezoelectric Liquid Micropumps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Weitu Technologies Recent Developments/Updates
- 2.10 Maxclever Electric
 - 2.10.1 Maxclever Electric Details
 - 2.10.2 Maxclever Electric Major Business
 - 2.10.3 Maxclever Electric Piezoelectric Liquid Micropumps Product and Services
 - 2.10.4 Maxclever Electric Piezoelectric Liquid Micropumps Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 Maxclever Electric Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PIEZOELECTRIC LIQUID MICROPUMPS BY MANUFACTURER

- 3.1 Global Piezoelectric Liquid Micropumps Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Piezoelectric Liquid Micropumps Revenue by Manufacturer (2020-2025)
- 3.3 Global Piezoelectric Liquid Micropumps Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of Piezoelectric Liquid Micropumps by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 Piezoelectric Liquid Micropumps Manufacturer Market Share in 2024
 - 3.4.3 Top 6 Piezoelectric Liquid Micropumps Manufacturer Market Share in 2024
- 3.5 Piezoelectric Liquid Micropumps Market: Overall Company Footprint Analysis
 - 3.5.1 Piezoelectric Liquid Micropumps Market: Region Footprint
 - 3.5.2 Piezoelectric Liquid Micropumps Market: Company Product Type Footprint
 - 3.5.3 Piezoelectric Liquid Micropumps Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Piezoelectric Liquid Micropumps Market Size by Region

4.1.1 Global Piezoelectric Liquid Micropumps Sales Quantity by Region (2020-2031)

4.1.2 Global Piezoelectric Liquid Micropumps Consumption Value by Region (2020-2031)

4.1.3 Global Piezoelectric Liquid Micropumps Average Price by Region (2020-2031)

4.2 North America Piezoelectric Liquid Micropumps Consumption Value (2020-2031)

4.3 Europe Piezoelectric Liquid Micropumps Consumption Value (2020-2031)

4.4 Asia-Pacific Piezoelectric Liquid Micropumps Consumption Value (2020-2031)

4.5 South America Piezoelectric Liquid Micropumps Consumption Value (2020-2031)

4.6 Middle East & Africa Piezoelectric Liquid Micropumps Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Piezoelectric Liquid Micropumps Sales Quantity by Type (2020-2031)

5.2 Global Piezoelectric Liquid Micropumps Consumption Value by Type (2020-2031)

5.3 Global Piezoelectric Liquid Micropumps Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Piezoelectric Liquid Micropumps Sales Quantity by Application (2020-2031)

6.2 Global Piezoelectric Liquid Micropumps Consumption Value by Application (2020-2031)

6.3 Global Piezoelectric Liquid Micropumps Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Piezoelectric Liquid Micropumps Sales Quantity by Type (2020-2031)

7.2 North America Piezoelectric Liquid Micropumps Sales Quantity by Application (2020-2031)

7.3 North America Piezoelectric Liquid Micropumps Market Size by Country

7.3.1 North America Piezoelectric Liquid Micropumps Sales Quantity by Country (2020-2031)

7.3.2 North America Piezoelectric Liquid Micropumps Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Piezoelectric Liquid Micropumps Sales Quantity by Type (2020-2031)

8.2 Europe Piezoelectric Liquid Micropumps Sales Quantity by Application (2020-2031)

8.3 Europe Piezoelectric Liquid Micropumps Market Size by Country

8.3.1 Europe Piezoelectric Liquid Micropumps Sales Quantity by Country (2020-2031)

8.3.2 Europe Piezoelectric Liquid Micropumps Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Piezoelectric Liquid Micropumps Market Size by Region

9.3.1 Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Piezoelectric Liquid Micropumps Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Piezoelectric Liquid Micropumps Sales Quantity by Type (2020-2031)

10.2 South America Piezoelectric Liquid Micropumps Sales Quantity by Application

(2020-2031)

10.3 South America Piezoelectric Liquid Micropumps Market Size by Country

10.3.1 South America Piezoelectric Liquid Micropumps Sales Quantity by Country

(2020-2031)

10.3.2 South America Piezoelectric Liquid Micropumps Consumption Value by Country

(2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity by Type
(2020-2031)

11.2 Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity by
Application (2020-2031)

11.3 Middle East & Africa Piezoelectric Liquid Micropumps Market Size by Country

11.3.1 Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity by
Country (2020-2031)

11.3.2 Middle East & Africa Piezoelectric Liquid Micropumps Consumption Value by
Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Piezoelectric Liquid Micropumps Market Drivers

12.2 Piezoelectric Liquid Micropumps Market Restraints

12.3 Piezoelectric Liquid Micropumps Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Piezoelectric Liquid Micropumps and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Piezoelectric Liquid Micropumps
- 13.3 Piezoelectric Liquid Micropumps Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Piezoelectric Liquid Micropumps Typical Distributors
- 14.3 Piezoelectric Liquid Micropumps Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Piezoelectric Liquid Micropumps Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Piezoelectric Liquid Micropumps Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. The Lee Company Basic Information, Manufacturing Base and Competitors

Table 4. The Lee Company Major Business

Table 5. The Lee Company Piezoelectric Liquid Micropumps Product and Services

Table 6. The Lee Company Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. The Lee Company Recent Developments/Updates

Table 8. Nippon Keiki Seisakusho Basic Information, Manufacturing Base and Competitors

Table 9. Nippon Keiki Seisakusho Major Business

Table 10. Nippon Keiki Seisakusho Piezoelectric Liquid Micropumps Product and Services

Table 11. Nippon Keiki Seisakusho Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Nippon Keiki Seisakusho Recent Developments/Updates

Table 13. MicroJet Technology Basic Information, Manufacturing Base and Competitors

Table 14. MicroJet Technology Major Business

Table 15. MicroJet Technology Piezoelectric Liquid Micropumps Product and Services

Table 16. MicroJet Technology Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. MicroJet Technology Recent Developments/Updates

Table 18. NITTO KOHKI Basic Information, Manufacturing Base and Competitors

Table 19. NITTO KOHKI Major Business

Table 20. NITTO KOHKI Piezoelectric Liquid Micropumps Product and Services

Table 21. NITTO KOHKI Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. NITTO KOHKI Recent Developments/Updates

Table 23. Takasago Electric Basic Information, Manufacturing Base and Competitors

Table 24. Takasago Electric Major Business

Table 25. Takasago Electric Piezoelectric Liquid Micropumps Product and Services

Table 26. Takasago Electric Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Takasago Electric Recent Developments/Updates

Table 28. Bartels Mikrotechnik Basic Information, Manufacturing Base and Competitors

Table 29. Bartels Mikrotechnik Major Business

Table 30. Bartels Mikrotechnik Piezoelectric Liquid Micropumps Product and Services

Table 31. Bartels Mikrotechnik Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Bartels Mikrotechnik Recent Developments/Updates

Table 33. HeYi Precision Pump Basic Information, Manufacturing Base and Competitors

Table 34. HeYi Precision Pump Major Business

Table 35. HeYi Precision Pump Piezoelectric Liquid Micropumps Product and Services

Table 36. HeYi Precision Pump Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. HeYi Precision Pump Recent Developments/Updates

Table 38. Ion Science Basic Information, Manufacturing Base and Competitors

Table 39. Ion Science Major Business

Table 40. Ion Science Piezoelectric Liquid Micropumps Product and Services

Table 41. Ion Science Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Ion Science Recent Developments/Updates

Table 43. Weitu Technologies Basic Information, Manufacturing Base and Competitors

Table 44. Weitu Technologies Major Business

Table 45. Weitu Technologies Piezoelectric Liquid Micropumps Product and Services

Table 46. Weitu Technologies Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Weitu Technologies Recent Developments/Updates

Table 48. Maxclever Electric Basic Information, Manufacturing Base and Competitors

Table 49. Maxclever Electric Major Business

Table 50. Maxclever Electric Piezoelectric Liquid Micropumps Product and Services

Table 51. Maxclever Electric Piezoelectric Liquid Micropumps Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2020-2025)

Table 52. Maxclever Electric Recent Developments/Updates

Table 53. Global Piezoelectric Liquid Micropumps Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 54. Global Piezoelectric Liquid Micropumps Revenue by Manufacturer (2020-2025) & (USD Million)

Table 55. Global Piezoelectric Liquid Micropumps Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 56. Market Position of Manufacturers in Piezoelectric Liquid Micropumps, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 57. Head Office and Piezoelectric Liquid Micropumps Production Site of Key Manufacturer

Table 58. Piezoelectric Liquid Micropumps Market: Company Product Type Footprint

Table 59. Piezoelectric Liquid Micropumps Market: Company Product Application Footprint

Table 60. Piezoelectric Liquid Micropumps New Market Entrants and Barriers to Market Entry

Table 61. Piezoelectric Liquid Micropumps Mergers, Acquisition, Agreements, and Collaborations

Table 62. Global Piezoelectric Liquid Micropumps Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 63. Global Piezoelectric Liquid Micropumps Sales Quantity by Region (2020-2025) & (K Units)

Table 64. Global Piezoelectric Liquid Micropumps Sales Quantity by Region (2026-2031) & (K Units)

Table 65. Global Piezoelectric Liquid Micropumps Consumption Value by Region (2020-2025) & (USD Million)

Table 66. Global Piezoelectric Liquid Micropumps Consumption Value by Region (2026-2031) & (USD Million)

Table 67. Global Piezoelectric Liquid Micropumps Average Price by Region (2020-2025) & (US\$/Unit)

Table 68. Global Piezoelectric Liquid Micropumps Average Price by Region (2026-2031) & (US\$/Unit)

Table 69. Global Piezoelectric Liquid Micropumps Sales Quantity by Type (2020-2025) & (K Units)

Table 70. Global Piezoelectric Liquid Micropumps Sales Quantity by Type (2026-2031) & (K Units)

Table 71. Global Piezoelectric Liquid Micropumps Consumption Value by Type (2020-2025) & (USD Million)

Table 72. Global Piezoelectric Liquid Micropumps Consumption Value by Type (2026-2031) & (USD Million)

Table 73. Global Piezoelectric Liquid Micropumps Average Price by Type (2020-2025) & (US\$/Unit)

Table 74. Global Piezoelectric Liquid Micropumps Average Price by Type (2026-2031) & (US\$/Unit)

Table 75. Global Piezoelectric Liquid Micropumps Sales Quantity by Application (2020-2025) & (K Units)

Table 76. Global Piezoelectric Liquid Micropumps Sales Quantity by Application (2026-2031) & (K Units)

Table 77. Global Piezoelectric Liquid Micropumps Consumption Value by Application (2020-2025) & (USD Million)

Table 78. Global Piezoelectric Liquid Micropumps Consumption Value by Application (2026-2031) & (USD Million)

Table 79. Global Piezoelectric Liquid Micropumps Average Price by Application (2020-2025) & (US\$/Unit)

Table 80. Global Piezoelectric Liquid Micropumps Average Price by Application (2026-2031) & (US\$/Unit)

Table 81. North America Piezoelectric Liquid Micropumps Sales Quantity by Type (2020-2025) & (K Units)

Table 82. North America Piezoelectric Liquid Micropumps Sales Quantity by Type (2026-2031) & (K Units)

Table 83. North America Piezoelectric Liquid Micropumps Sales Quantity by Application (2020-2025) & (K Units)

Table 84. North America Piezoelectric Liquid Micropumps Sales Quantity by Application (2026-2031) & (K Units)

Table 85. North America Piezoelectric Liquid Micropumps Sales Quantity by Country (2020-2025) & (K Units)

Table 86. North America Piezoelectric Liquid Micropumps Sales Quantity by Country (2026-2031) & (K Units)

Table 87. North America Piezoelectric Liquid Micropumps Consumption Value by Country (2020-2025) & (USD Million)

Table 88. North America Piezoelectric Liquid Micropumps Consumption Value by Country (2026-2031) & (USD Million)

Table 89. Europe Piezoelectric Liquid Micropumps Sales Quantity by Type (2020-2025) & (K Units)

Table 90. Europe Piezoelectric Liquid Micropumps Sales Quantity by Type (2026-2031) & (K Units)

Table 91. Europe Piezoelectric Liquid Micropumps Sales Quantity by Application

(2020-2025) & (K Units)

Table 92. Europe Piezoelectric Liquid Micropumps Sales Quantity by Application

(2026-2031) & (K Units)

Table 93. Europe Piezoelectric Liquid Micropumps Sales Quantity by Country

(2020-2025) & (K Units)

Table 94. Europe Piezoelectric Liquid Micropumps Sales Quantity by Country

(2026-2031) & (K Units)

Table 95. Europe Piezoelectric Liquid Micropumps Consumption Value by Country

(2020-2025) & (USD Million)

Table 96. Europe Piezoelectric Liquid Micropumps Consumption Value by Country

(2026-2031) & (USD Million)

Table 97. Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity by Type

(2020-2025) & (K Units)

Table 98. Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity by Type

(2026-2031) & (K Units)

Table 99. Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity by Application

(2020-2025) & (K Units)

Table 100. Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity by Application

(2026-2031) & (K Units)

Table 101. Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity by Region

(2020-2025) & (K Units)

Table 102. Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity by Region

(2026-2031) & (K Units)

Table 103. Asia-Pacific Piezoelectric Liquid Micropumps Consumption Value by Region

(2020-2025) & (USD Million)

Table 104. Asia-Pacific Piezoelectric Liquid Micropumps Consumption Value by Region

(2026-2031) & (USD Million)

Table 105. South America Piezoelectric Liquid Micropumps Sales Quantity by Type

(2020-2025) & (K Units)

Table 106. South America Piezoelectric Liquid Micropumps Sales Quantity by Type

(2026-2031) & (K Units)

Table 107. South America Piezoelectric Liquid Micropumps Sales Quantity by

Application (2020-2025) & (K Units)

Table 108. South America Piezoelectric Liquid Micropumps Sales Quantity by

Application (2026-2031) & (K Units)

Table 109. South America Piezoelectric Liquid Micropumps Sales Quantity by Country

(2020-2025) & (K Units)

Table 110. South America Piezoelectric Liquid Micropumps Sales Quantity by Country

(2026-2031) & (K Units)

Table 111. South America Piezoelectric Liquid Micropumps Consumption Value by Country (2020-2025) & (USD Million)

Table 112. South America Piezoelectric Liquid Micropumps Consumption Value by Country (2026-2031) & (USD Million)

Table 113. Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity by Type (2020-2025) & (K Units)

Table 114. Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity by Type (2026-2031) & (K Units)

Table 115. Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity by Application (2020-2025) & (K Units)

Table 116. Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity by Application (2026-2031) & (K Units)

Table 117. Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity by Country (2020-2025) & (K Units)

Table 118. Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity by Country (2026-2031) & (K Units)

Table 119. Middle East & Africa Piezoelectric Liquid Micropumps Consumption Value by Country (2020-2025) & (USD Million)

Table 120. Middle East & Africa Piezoelectric Liquid Micropumps Consumption Value by Country (2026-2031) & (USD Million)

Table 121. Piezoelectric Liquid Micropumps Raw Material

Table 122. Key Manufacturers of Piezoelectric Liquid Micropumps Raw Materials

Table 123. Piezoelectric Liquid Micropumps Typical Distributors

Table 124. Piezoelectric Liquid Micropumps Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Piezoelectric Liquid Micropumps Picture

Figure 2. Global Piezoelectric Liquid Micropumps Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Piezoelectric Liquid Micropumps Revenue Market Share by Type in 2024

Figure 4. Flow Rate ≤ 10 mL/min Examples

Figure 5. Flow Rate > 10 mL/min Examples

Figure 6. Global Piezoelectric Liquid Micropumps Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Piezoelectric Liquid Micropumps Revenue Market Share by Application in 2024

Figure 8. Medical & Life Sciences Examples

Figure 9. Consumer Electronics Examples

Figure 10. Household Appliances Examples

Figure 11. Industrial Application Examples

Figure 12. Others Examples

Figure 13. Global Piezoelectric Liquid Micropumps Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 14. Global Piezoelectric Liquid Micropumps Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 15. Global Piezoelectric Liquid Micropumps Sales Quantity (2020-2031) & (K Units)

Figure 16. Global Piezoelectric Liquid Micropumps Price (2020-2031) & (US\$/Unit)

Figure 17. Global Piezoelectric Liquid Micropumps Sales Quantity Market Share by Manufacturer in 2024

Figure 18. Global Piezoelectric Liquid Micropumps Revenue Market Share by Manufacturer in 2024

Figure 19. Producer Shipments of Piezoelectric Liquid Micropumps by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 20. Top 3 Piezoelectric Liquid Micropumps Manufacturer (Revenue) Market Share in 2024

Figure 21. Top 6 Piezoelectric Liquid Micropumps Manufacturer (Revenue) Market Share in 2024

Figure 22. Global Piezoelectric Liquid Micropumps Sales Quantity Market Share by Region (2020-2031)

Figure 23. Global Piezoelectric Liquid Micropumps Consumption Value Market Share by Region (2020-2031)

Figure 24. North America Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 25. Europe Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 26. Asia-Pacific Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 27. South America Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 28. Middle East & Africa Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 29. Global Piezoelectric Liquid Micropumps Sales Quantity Market Share by Type (2020-2031)

Figure 30. Global Piezoelectric Liquid Micropumps Consumption Value Market Share by Type (2020-2031)

Figure 31. Global Piezoelectric Liquid Micropumps Average Price by Type (2020-2031) & (US\$/Unit)

Figure 32. Global Piezoelectric Liquid Micropumps Sales Quantity Market Share by Application (2020-2031)

Figure 33. Global Piezoelectric Liquid Micropumps Revenue Market Share by Application (2020-2031)

Figure 34. Global Piezoelectric Liquid Micropumps Average Price by Application (2020-2031) & (US\$/Unit)

Figure 35. North America Piezoelectric Liquid Micropumps Sales Quantity Market Share by Type (2020-2031)

Figure 36. North America Piezoelectric Liquid Micropumps Sales Quantity Market Share by Application (2020-2031)

Figure 37. North America Piezoelectric Liquid Micropumps Sales Quantity Market Share by Country (2020-2031)

Figure 38. North America Piezoelectric Liquid Micropumps Consumption Value Market Share by Country (2020-2031)

Figure 39. United States Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 40. Canada Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 41. Mexico Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 42. Europe Piezoelectric Liquid Micropumps Sales Quantity Market Share by

Type (2020-2031)

Figure 43. Europe Piezoelectric Liquid Micropumps Sales Quantity Market Share by Application (2020-2031)

Figure 44. Europe Piezoelectric Liquid Micropumps Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe Piezoelectric Liquid Micropumps Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 47. France Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific Piezoelectric Liquid Micropumps Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific Piezoelectric Liquid Micropumps Consumption Value Market Share by Region (2020-2031)

Figure 55. China Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 58. India Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 61. South America Piezoelectric Liquid Micropumps Sales Quantity Market Share by Type (2020-2031)

Figure 62. South America Piezoelectric Liquid Micropumps Sales Quantity Market Share by Application (2020-2031)

Figure 63. South America Piezoelectric Liquid Micropumps Sales Quantity Market Share by Country (2020-2031)

Figure 64. South America Piezoelectric Liquid Micropumps Consumption Value Market Share by Country (2020-2031)

Figure 65. Brazil Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 66. Argentina Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 67. Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity Market Share by Type (2020-2031)

Figure 68. Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity Market Share by Application (2020-2031)

Figure 69. Middle East & Africa Piezoelectric Liquid Micropumps Sales Quantity Market Share by Country (2020-2031)

Figure 70. Middle East & Africa Piezoelectric Liquid Micropumps Consumption Value Market Share by Country (2020-2031)

Figure 71. Turkey Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 72. Egypt Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 73. Saudi Arabia Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 74. South Africa Piezoelectric Liquid Micropumps Consumption Value (2020-2031) & (USD Million)

Figure 75. Piezoelectric Liquid Micropumps Market Drivers

Figure 76. Piezoelectric Liquid Micropumps Market Restraints

Figure 77. Piezoelectric Liquid Micropumps Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Piezoelectric Liquid Micropumps in 2024

Figure 80. Manufacturing Process Analysis of Piezoelectric Liquid Micropumps

Figure 81. Piezoelectric Liquid Micropumps Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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