

Global Medical Drug-releasing Micropump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Medical Drug-releasing Micropump market size is expected to reach \$ 2549 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

Global sales of medical drug-releasing micropumps reached 1,886,000 units in 2025, with an average price of \$756 per unit.

A medical drug-releasing micropump is a tiny infusion device that enables precise, controllable, and continuous drug release. It is primarily manufactured using microelectromechanical systems (MEMS) technology or osmotic pressure principles. Small in size and highly precise, it is widely used in diabetes treatment (e.g., insulin pumps), drug research (animal models), postoperative analgesia (patient-controlled analgesia pumps), and microfluidic chips, replacing traditional infusion methods and providing more personalized and precise drug delivery regimens.

Its materials typically consist of 'drug contact end + structural components + electromechanical components + packaging and sterilization': the drug contact end often uses medical-grade polymers (PP/PE, PC, COC/COP, PEEK, PPSU, PTFE, etc.) and elastomers (silicone, TPU) for the drug cartridge, tubing, valve diaphragm, and seal; 316L stainless steel is used when necessary. Stainless steel/titanium alloys are used for needle hubs, micro-valve components, or implantable housings.

Piezoelectric/electromagnetic micropumps utilize piezoelectric ceramics, copper coils, and magnetic materials. The electromechanical components include PCBs, MCUs, driver chips, sensors, connectors, and batteries (button/lithium batteries), plus adhesives, coatings, and sterile barrier packaging. Costs generally follow this pattern: for reusable mainframes, the bulk of the cost lies in 'precision electromechanical and control' (drive mechanism/micropump, sensor, PCB, battery) + 'calibration and testing' (metrological accuracy, leakage/back pressure, alarm safety) + 'clean assembly and quality system'; while for disposable consumables/medicine boxes/tubing, the bulk of

the cost lies in 'medical materials and molding (injection molding/extrusion) + key small components such as valves and needles + sterilization and packaging + yield and scrap,' and these are often the core of ongoing costs/gross profit in business models. For implantable devices, the costs also significantly increase due to the hermetic sealing of titanium shells/ceramic feedthroughs, long-term power supplies, and reliability verification. Furthermore, R&D, regulatory registration, and clinical validation costs are typically amortized into the unit cost and selling price structure.

This report studies the global Medical Drug-releasing Micropump production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Medical Drug-releasing Micropump total production and demand, 2021-2032, (K Units)

Global Medical Drug-releasing Micropump total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Medical Drug-releasing Micropump domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Medical Drug-releasing 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 Medtronic, Roche, SOOIL, Tandem, Insulet Corp, Valeritas, Sonceboz, Microchip Technology, Debiotech, Eoflow, 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 Medical Drug-releasing 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 Medical Drug-releasing Micropump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medical Drug-releasing Micropump Market, Segmentation by Type:

Open-loop System

Close-loop System

Global Medical Drug-releasing Micropump Market, Segmentation by Usage Forms:

Wearable/Surface Mount

Portable External

Bedside/Tablet

Implantable

Global Medical Drug-releasing Micropump Market, Segmentation by Flow Rate Levels:

nL/min??L/min

?L/min?mL/h

mL/h?mL/min

Global Medical Drug-releasing Micropump Market, Segmentation by Application:

Public Hospital

Private Hospital

Companies Profiled:

Medtronic

Roche

SOOIL

Tandem

Insulet Corp

Valeritas

Sonceboz

Microchip Technology

Debiotech

Eoflow

YW MEMS

MicroTech Medical

ALZET

RWD Life Science

Takasago Fluidic Systems

Bartels Mikrotechnik

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Medical Drug-releasing Micropump Introduction
- 1.2 World Medical Drug-releasing Micropump Supply & Forecast
 - 1.2.1 World Medical Drug-releasing Micropump Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Medical Drug-releasing Micropump Production (2021-2032)
 - 1.2.3 World Medical Drug-releasing Micropump Pricing Trends (2021-2032)
- 1.3 World Medical Drug-releasing Micropump Production by Region (Based on Production Site)
 - 1.3.1 World Medical Drug-releasing Micropump Production Value by Region (2021-2032)
 - 1.3.2 World Medical Drug-releasing Micropump Production by Region (2021-2032)
 - 1.3.3 World Medical Drug-releasing Micropump Average Price by Region (2021-2032)
 - 1.3.4 North America Medical Drug-releasing Micropump Production (2021-2032)
 - 1.3.5 Europe Medical Drug-releasing Micropump Production (2021-2032)
 - 1.3.6 China Medical Drug-releasing Micropump Production (2021-2032)
 - 1.3.7 Japan Medical Drug-releasing Micropump Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Medical Drug-releasing Micropump Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Medical Drug-releasing Micropump Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Medical Drug-releasing Micropump Demand (2021-2032)
- 2.2 World Medical Drug-releasing Micropump Consumption by Region
 - 2.2.1 World Medical Drug-releasing Micropump Consumption by Region (2021-2026)
 - 2.2.2 World Medical Drug-releasing Micropump Consumption Forecast by Region (2027-2032)
- 2.3 United States Medical Drug-releasing Micropump Consumption (2021-2032)
- 2.4 China Medical Drug-releasing Micropump Consumption (2021-2032)
- 2.5 Europe Medical Drug-releasing Micropump Consumption (2021-2032)
- 2.6 Japan Medical Drug-releasing Micropump Consumption (2021-2032)
- 2.7 South Korea Medical Drug-releasing Micropump Consumption (2021-2032)
- 2.8 ASEAN Medical Drug-releasing Micropump Consumption (2021-2032)
- 2.9 India Medical Drug-releasing Micropump Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Medical Drug-releasing Micropump Production Value by Manufacturer (2021-2026)

3.2 World Medical Drug-releasing Micropump Production by Manufacturer (2021-2026)

3.3 World Medical Drug-releasing Micropump Average Price by Manufacturer (2021-2026)

3.4 Medical Drug-releasing Micropump Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Medical Drug-releasing Micropump Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Medical Drug-releasing Micropump in 2025

3.5.3 Global Concentration Ratios (CR8) for Medical Drug-releasing Micropump in 2025

3.6 Medical Drug-releasing Micropump Market: Overall Company Footprint Analysis

3.6.1 Medical Drug-releasing Micropump Market: Region Footprint

3.6.2 Medical Drug-releasing Micropump Market: Company Product Type Footprint

3.6.3 Medical Drug-releasing Micropump Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Medical Drug-releasing Micropump Production Value Comparison

4.1.1 United States VS China: Medical Drug-releasing Micropump Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Medical Drug-releasing Micropump Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Medical Drug-releasing Micropump Production Comparison

4.2.1 United States VS China: Medical Drug-releasing Micropump Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Medical Drug-releasing Micropump Production Market

Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Medical Drug-releasing Micropump Consumption Comparison

4.3.1 United States VS China: Medical Drug-releasing Micropump Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Medical Drug-releasing Micropump Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Medical Drug-releasing Micropump Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Medical Drug-releasing Micropump Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Medical Drug-releasing Micropump Production Value (2021-2026)

4.4.3 United States Based Manufacturers Medical Drug-releasing Micropump Production (2021-2026)

4.5 China Based Medical Drug-releasing Micropump Manufacturers and Market Share

4.5.1 China Based Medical Drug-releasing Micropump Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Medical Drug-releasing Micropump Production Value (2021-2026)

4.5.3 China Based Manufacturers Medical Drug-releasing Micropump Production (2021-2026)

4.6 Rest of World Based Medical Drug-releasing Micropump Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Medical Drug-releasing Micropump Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Medical Drug-releasing Micropump Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Medical Drug-releasing Micropump Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Medical Drug-releasing Micropump Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Open-loop System

5.2.2 Close-loop System

5.3 Market Segment by Type

- 5.3.1 World Medical Drug-releasing Micropump Production by Type (2021-2032)
- 5.3.2 World Medical Drug-releasing Micropump Production Value by Type (2021-2032)
- 5.3.3 World Medical Drug-releasing Micropump Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY USAGE FORMS

- 6.1 World Medical Drug-releasing Micropump Market Size Overview by Usage Forms: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Usage Forms
 - 6.2.1 Wearable/Surface Mount
 - 6.2.2 Portable External
 - 6.2.3 Bedside/Tablet
 - 6.2.4 Implantable
- 6.3 Market Segment by Usage Forms
 - 6.3.1 World Medical Drug-releasing Micropump Production by Usage Forms (2021-2032)
 - 6.3.2 World Medical Drug-releasing Micropump Production Value by Usage Forms (2021-2032)
 - 6.3.3 World Medical Drug-releasing Micropump Average Price by Usage Forms (2021-2032)

7 MARKET ANALYSIS BY FLOW RATE LEVELS

- 7.1 World Medical Drug-releasing Micropump Market Size Overview by Flow Rate Levels: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Flow Rate Levels
 - 7.2.1 nL/min??L/min
 - 7.2.2 ?L/min?mL/h
 - 7.2.3 mL/h?mL/min
- 7.3 Market Segment by Flow Rate Levels
 - 7.3.1 World Medical Drug-releasing Micropump Production by Flow Rate Levels (2021-2032)
 - 7.3.2 World Medical Drug-releasing Micropump Production Value by Flow Rate Levels (2021-2032)
 - 7.3.3 World Medical Drug-releasing Micropump Average Price by Flow Rate Levels (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Medical Drug-releasing Micropump Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Public Hospital

8.2.2 Private Hospital

8.3 Market Segment by Application

8.3.1 World Medical Drug-releasing Micropump Production by Application (2021-2032)

8.3.2 World Medical Drug-releasing Micropump Production Value by Application
(2021-2032)

8.3.3 World Medical Drug-releasing Micropump Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 Medtronic

9.1.1 Medtronic Details

9.1.2 Medtronic Major Business

9.1.3 Medtronic Medical Drug-releasing Micropump Product and Services

9.1.4 Medtronic Medical Drug-releasing Micropump Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.1.5 Medtronic Recent Developments/Updates

9.1.6 Medtronic Competitive Strengths & Weaknesses

9.2 Roche

9.2.1 Roche Details

9.2.2 Roche Major Business

9.2.3 Roche Medical Drug-releasing Micropump Product and Services

9.2.4 Roche Medical Drug-releasing Micropump Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.2.5 Roche Recent Developments/Updates

9.2.6 Roche Competitive Strengths & Weaknesses

9.3 SOOIL

9.3.1 SOOIL Details

9.3.2 SOOIL Major Business

9.3.3 SOOIL Medical Drug-releasing Micropump Product and Services

9.3.4 SOOIL Medical Drug-releasing Micropump Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.3.5 SOOIL Recent Developments/Updates

9.3.6 SOOIL Competitive Strengths & Weaknesses

9.4 Tandem

- 9.4.1 Tandem Details
- 9.4.2 Tandem Major Business
- 9.4.3 Tandem Medical Drug-releasing Micropump Product and Services
- 9.4.4 Tandem Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Tandem Recent Developments/Updates
- 9.4.6 Tandem Competitive Strengths & Weaknesses
- 9.5 Insulet Corp
 - 9.5.1 Insulet Corp Details
 - 9.5.2 Insulet Corp Major Business
 - 9.5.3 Insulet Corp Medical Drug-releasing Micropump Product and Services
 - 9.5.4 Insulet Corp Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Insulet Corp Recent Developments/Updates
 - 9.5.6 Insulet Corp Competitive Strengths & Weaknesses
- 9.6 Valeritas
 - 9.6.1 Valeritas Details
 - 9.6.2 Valeritas Major Business
 - 9.6.3 Valeritas Medical Drug-releasing Micropump Product and Services
 - 9.6.4 Valeritas Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Valeritas Recent Developments/Updates
 - 9.6.6 Valeritas Competitive Strengths & Weaknesses
- 9.7 Sonceboz
 - 9.7.1 Sonceboz Details
 - 9.7.2 Sonceboz Major Business
 - 9.7.3 Sonceboz Medical Drug-releasing Micropump Product and Services
 - 9.7.4 Sonceboz Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Sonceboz Recent Developments/Updates
 - 9.7.6 Sonceboz Competitive Strengths & Weaknesses
- 9.8 Microchip Technology
 - 9.8.1 Microchip Technology Details
 - 9.8.2 Microchip Technology Major Business
 - 9.8.3 Microchip Technology Medical Drug-releasing Micropump Product and Services
 - 9.8.4 Microchip Technology Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Microchip Technology Recent Developments/Updates
 - 9.8.6 Microchip Technology Competitive Strengths & Weaknesses

9.9 Debiotech

9.9.1 Debiotech Details

9.9.2 Debiotech Major Business

9.9.3 Debiotech Medical Drug-releasing Micropump Product and Services

9.9.4 Debiotech Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Debiotech Recent Developments/Updates

9.9.6 Debiotech Competitive Strengths & Weaknesses

9.10 Eoflow

9.10.1 Eoflow Details

9.10.2 Eoflow Major Business

9.10.3 Eoflow Medical Drug-releasing Micropump Product and Services

9.10.4 Eoflow Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Eoflow Recent Developments/Updates

9.10.6 Eoflow Competitive Strengths & Weaknesses

9.11 YW MEMS

9.11.1 YW MEMS Details

9.11.2 YW MEMS Major Business

9.11.3 YW MEMS Medical Drug-releasing Micropump Product and Services

9.11.4 YW MEMS Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 YW MEMS Recent Developments/Updates

9.11.6 YW MEMS Competitive Strengths & Weaknesses

9.12 MicroTech Medical

9.12.1 MicroTech Medical Details

9.12.2 MicroTech Medical Major Business

9.12.3 MicroTech Medical Medical Drug-releasing Micropump Product and Services

9.12.4 MicroTech Medical Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 MicroTech Medical Recent Developments/Updates

9.12.6 MicroTech Medical Competitive Strengths & Weaknesses

9.13 ALZET

9.13.1 ALZET Details

9.13.2 ALZET Major Business

9.13.3 ALZET Medical Drug-releasing Micropump Product and Services

9.13.4 ALZET Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 ALZET Recent Developments/Updates

- 9.13.6 ALZET Competitive Strengths & Weaknesses
- 9.14 RWD Life Science
 - 9.14.1 RWD Life Science Details
 - 9.14.2 RWD Life Science Major Business
 - 9.14.3 RWD Life Science Medical Drug-releasing Micropump Product and Services
 - 9.14.4 RWD Life Science Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 RWD Life Science Recent Developments/Updates
 - 9.14.6 RWD Life Science Competitive Strengths & Weaknesses
- 9.15 Takasago Fluidic Systems
 - 9.15.1 Takasago Fluidic Systems Details
 - 9.15.2 Takasago Fluidic Systems Major Business
 - 9.15.3 Takasago Fluidic Systems Medical Drug-releasing Micropump Product and Services
 - 9.15.4 Takasago Fluidic Systems Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Takasago Fluidic Systems Recent Developments/Updates
 - 9.15.6 Takasago Fluidic Systems Competitive Strengths & Weaknesses
- 9.16 Bartels Mikrotechnik
 - 9.16.1 Bartels Mikrotechnik Details
 - 9.16.2 Bartels Mikrotechnik Major Business
 - 9.16.3 Bartels Mikrotechnik Medical Drug-releasing Micropump Product and Services
 - 9.16.4 Bartels Mikrotechnik Medical Drug-releasing Micropump Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Bartels Mikrotechnik Recent Developments/Updates
 - 9.16.6 Bartels Mikrotechnik Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Medical Drug-releasing Micropump Industry Chain
- 10.2 Medical Drug-releasing Micropump Upstream Analysis
 - 10.2.1 Medical Drug-releasing Micropump Core Raw Materials
 - 10.2.2 Main Manufacturers of Medical Drug-releasing Micropump Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Medical Drug-releasing Micropump Production Mode
- 10.6 Medical Drug-releasing Micropump Procurement Model
- 10.7 Medical Drug-releasing Micropump Industry Sales Model and Sales Channels
 - 10.7.1 Medical Drug-releasing Micropump Sales Model

10.7.2 Medical Drug-releasing Micropump Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Medical Drug-releasing Micropump Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Medical Drug-releasing Micropump Production Value by Region (2021-2026) & (USD Million)

Table 3. World Medical Drug-releasing Micropump Production Value by Region (2027-2032) & (USD Million)

Table 4. World Medical Drug-releasing Micropump Production Value Market Share by Region (2021-2026)

Table 5. World Medical Drug-releasing Micropump Production Value Market Share by Region (2027-2032)

Table 6. World Medical Drug-releasing Micropump Production by Region (2021-2026) & (K Units)

Table 7. World Medical Drug-releasing Micropump Production by Region (2027-2032) & (K Units)

Table 8. World Medical Drug-releasing Micropump Production Market Share by Region (2021-2026)

Table 9. World Medical Drug-releasing Micropump Production Market Share by Region (2027-2032)

Table 10. World Medical Drug-releasing Micropump Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Medical Drug-releasing Micropump Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Medical Drug-releasing Micropump Major Market Trends

Table 13. World Medical Drug-releasing Micropump Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Medical Drug-releasing Micropump Consumption by Region (2021-2026) & (K Units)

Table 15. World Medical Drug-releasing Micropump Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Medical Drug-releasing Micropump Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Medical Drug-releasing Micropump Producers in 2025

Table 18. World Medical Drug-releasing Micropump Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Medical Drug-releasing Micropump Producers in 2025

Table 20. World Medical Drug-releasing Micropump Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Medical Drug-releasing Micropump Company Evaluation Quadrant

Table 22. World Medical Drug-releasing Micropump Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Medical Drug-releasing Micropump Production Site of Key Manufacturer

Table 24. Medical Drug-releasing Micropump Market: Company Product Type Footprint

Table 25. Medical Drug-releasing Micropump Market: Company Product Application Footprint

Table 26. Medical Drug-releasing Micropump Competitive Factors

Table 27. Medical Drug-releasing Micropump New Entrant and Capacity Expansion Plans

Table 28. Medical Drug-releasing Micropump Mergers & Acquisitions Activity

Table 29. United States VS China Medical Drug-releasing Micropump Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Medical Drug-releasing Micropump Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Medical Drug-releasing Micropump Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Medical Drug-releasing Micropump Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Medical Drug-releasing Micropump Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Medical Drug-releasing Micropump Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Medical Drug-releasing Micropump Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Medical Drug-releasing Micropump Production Market Share (2021-2026)

Table 37. China Based Medical Drug-releasing Micropump Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Medical Drug-releasing Micropump Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Medical Drug-releasing Micropump Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Medical Drug-releasing Micropump Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Medical Drug-releasing Micropump Production Market Share (2021-2026)

Table 42. Rest of World Based Medical Drug-releasing Micropump Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Medical Drug-releasing Micropump Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Medical Drug-releasing Micropump Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Medical Drug-releasing Micropump Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Medical Drug-releasing Micropump Production Market Share (2021-2026)

Table 47. World Medical Drug-releasing Micropump Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Medical Drug-releasing Micropump Production by Type (2021-2026) & (K Units)

Table 49. World Medical Drug-releasing Micropump Production by Type (2027-2032) & (K Units)

Table 50. World Medical Drug-releasing Micropump Production Value by Type (2021-2026) & (USD Million)

Table 51. World Medical Drug-releasing Micropump Production Value by Type (2027-2032) & (USD Million)

Table 52. World Medical Drug-releasing Micropump Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Medical Drug-releasing Micropump Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Medical Drug-releasing Micropump Production Value by Usage Forms, (USD Million), 2021 & 2025 & 2032

Table 55. World Medical Drug-releasing Micropump Production by Usage Forms (2021-2026) & (K Units)

Table 56. World Medical Drug-releasing Micropump Production by Usage Forms (2027-2032) & (K Units)

Table 57. World Medical Drug-releasing Micropump Production Value by Usage Forms (2021-2026) & (USD Million)

Table 58. World Medical Drug-releasing Micropump Production Value by Usage Forms (2027-2032) & (USD Million)

Table 59. World Medical Drug-releasing Micropump Average Price by Usage Forms (2021-2026) & (US\$/Unit)

Table 60. World Medical Drug-releasing Micropump Average Price by Usage Forms (2027-2032) & (US\$/Unit)

Table 61. World Medical Drug-releasing Micropump Production Value by Flow Rate Levels, (USD Million), 2021 & 2025 & 2032

Table 62. World Medical Drug-releasing Micropump Production by Flow Rate Levels (2021-2026) & (K Units)

Table 63. World Medical Drug-releasing Micropump Production by Flow Rate Levels (2027-2032) & (K Units)

Table 64. World Medical Drug-releasing Micropump Production Value by Flow Rate Levels (2021-2026) & (USD Million)

Table 65. World Medical Drug-releasing Micropump Production Value by Flow Rate Levels (2027-2032) & (USD Million)

Table 66. World Medical Drug-releasing Micropump Average Price by Flow Rate Levels (2021-2026) & (US\$/Unit)

Table 67. World Medical Drug-releasing Micropump Average Price by Flow Rate Levels (2027-2032) & (US\$/Unit)

Table 68. World Medical Drug-releasing Micropump Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Medical Drug-releasing Micropump Production by Application (2021-2026) & (K Units)

Table 70. World Medical Drug-releasing Micropump Production by Application (2027-2032) & (K Units)

Table 71. World Medical Drug-releasing Micropump Production Value by Application (2021-2026) & (USD Million)

Table 72. World Medical Drug-releasing Micropump Production Value by Application (2027-2032) & (USD Million)

Table 73. World Medical Drug-releasing Micropump Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Medical Drug-releasing Micropump Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Medtronic Basic Information, Manufacturing Base and Competitors

Table 76. Medtronic Major Business

Table 77. Medtronic Medical Drug-releasing Micropump Product and Services

Table 78. Medtronic Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Medtronic Recent Developments/Updates

Table 80. Medtronic Competitive Strengths & Weaknesses

Table 81. Roche Basic Information, Manufacturing Base and Competitors

Table 82. Roche Major Business

Table 83. Roche Medical Drug-releasing Micropump Product and Services

Table 84. Roche Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Roche Recent Developments/Updates

Table 86. Roche Competitive Strengths & Weaknesses

Table 87. SOOIL Basic Information, Manufacturing Base and Competitors

Table 88. SOOIL Major Business

Table 89. SOOIL Medical Drug-releasing Micropump Product and Services

Table 90. SOOIL Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. SOOIL Recent Developments/Updates

Table 92. SOOIL Competitive Strengths & Weaknesses

Table 93. Tandem Basic Information, Manufacturing Base and Competitors

Table 94. Tandem Major Business

Table 95. Tandem Medical Drug-releasing Micropump Product and Services

Table 96. Tandem Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Tandem Recent Developments/Updates

Table 98. Tandem Competitive Strengths & Weaknesses

Table 99. Insulet Corp Basic Information, Manufacturing Base and Competitors

Table 100. Insulet Corp Major Business

Table 101. Insulet Corp Medical Drug-releasing Micropump Product and Services

Table 102. Insulet Corp Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Insulet Corp Recent Developments/Updates

Table 104. Insulet Corp Competitive Strengths & Weaknesses

Table 105. Valeritas Basic Information, Manufacturing Base and Competitors

Table 106. Valeritas Major Business

Table 107. Valeritas Medical Drug-releasing Micropump Product and Services

Table 108. Valeritas Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Valeritas Recent Developments/Updates

Table 110. Valeritas Competitive Strengths & Weaknesses

- Table 111. Sonceboz Basic Information, Manufacturing Base and Competitors
- Table 112. Sonceboz Major Business
- Table 113. Sonceboz Medical Drug-releasing Micropump Product and Services
- Table 114. Sonceboz Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Sonceboz Recent Developments/Updates
- Table 116. Sonceboz Competitive Strengths & Weaknesses
- Table 117. Microchip Technology Basic Information, Manufacturing Base and Competitors
- Table 118. Microchip Technology Major Business
- Table 119. Microchip Technology Medical Drug-releasing Micropump Product and Services
- Table 120. Microchip Technology Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Microchip Technology Recent Developments/Updates
- Table 122. Microchip Technology Competitive Strengths & Weaknesses
- Table 123. Debiotech Basic Information, Manufacturing Base and Competitors
- Table 124. Debiotech Major Business
- Table 125. Debiotech Medical Drug-releasing Micropump Product and Services
- Table 126. Debiotech Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Debiotech Recent Developments/Updates
- Table 128. Debiotech Competitive Strengths & Weaknesses
- Table 129. Eoflow Basic Information, Manufacturing Base and Competitors
- Table 130. Eoflow Major Business
- Table 131. Eoflow Medical Drug-releasing Micropump Product and Services
- Table 132. Eoflow Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Eoflow Recent Developments/Updates
- Table 134. Eoflow Competitive Strengths & Weaknesses
- Table 135. YW MEMS Basic Information, Manufacturing Base and Competitors
- Table 136. YW MEMS Major Business
- Table 137. YW MEMS Medical Drug-releasing Micropump Product and Services
- Table 138. YW MEMS Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 139. YW MEMS Recent Developments/Updates

Table 140. YW MEMS Competitive Strengths & Weaknesses

Table 141. MicroTech Medical Basic Information, Manufacturing Base and Competitors

Table 142. MicroTech Medical Major Business

Table 143. MicroTech Medical Medical Drug-releasing Micropump Product and Services

Table 144. MicroTech Medical Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 145. MicroTech Medical Recent Developments/Updates

Table 146. MicroTech Medical Competitive Strengths & Weaknesses

Table 147. ALZET Basic Information, Manufacturing Base and Competitors

Table 148. ALZET Major Business

Table 149. ALZET Medical Drug-releasing Micropump Product and Services

Table 150. ALZET Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 151. ALZET Recent Developments/Updates

Table 152. ALZET Competitive Strengths & Weaknesses

Table 153. RWD Life Science Basic Information, Manufacturing Base and Competitors

Table 154. RWD Life Science Major Business

Table 155. RWD Life Science Medical Drug-releasing Micropump Product and Services

Table 156. RWD Life Science Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 157. RWD Life Science Recent Developments/Updates

Table 158. RWD Life Science Competitive Strengths & Weaknesses

Table 159. Takasago Fluidic Systems Basic Information, Manufacturing Base and Competitors

Table 160. Takasago Fluidic Systems Major Business

Table 161. Takasago Fluidic Systems Medical Drug-releasing Micropump Product and Services

Table 162. Takasago Fluidic Systems Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Takasago Fluidic Systems Recent Developments/Updates

Table 164. Takasago Fluidic Systems Competitive Strengths & Weaknesses

Table 165. Bartels Mikrotechnik Basic Information, Manufacturing Base and Competitors

Table 166. Bartels Mikrotechnik Major Business

Table 167. Bartels Mikrotechnik Medical Drug-releasing Micropump Product and Services

Table 168. Bartels Mikrotechnik Medical Drug-releasing Micropump Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Bartels Mikrotechnik Recent Developments/Updates

Table 170. Bartels Mikrotechnik Competitive Strengths & Weaknesses

Table 171. Global Key Players of Medical Drug-releasing Micropump Upstream (Raw Materials)

Table 172. Global Medical Drug-releasing Micropump Typical Customers

Table 173. Medical Drug-releasing Micropump Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Medical Drug-releasing Micropump Picture

Figure 2. World Medical Drug-releasing Micropump Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Medical Drug-releasing Micropump Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Medical Drug-releasing Micropump Production (2021-2032) & (K Units)

Figure 5. World Medical Drug-releasing Micropump Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Medical Drug-releasing Micropump Production Value Market Share by Region (2021-2032)

Figure 7. World Medical Drug-releasing Micropump Production Market Share by Region (2021-2032)

Figure 8. North America Medical Drug-releasing Micropump Production (2021-2032) & (K Units)

Figure 9. Europe Medical Drug-releasing Micropump Production (2021-2032) & (K Units)

Figure 10. China Medical Drug-releasing Micropump Production (2021-2032) & (K Units)

Figure 11. Japan Medical Drug-releasing Micropump Production (2021-2032) & (K Units)

Figure 12. Medical Drug-releasing Micropump Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Medical Drug-releasing Micropump Consumption (2021-2032) & (K Units)

Figure 15. World Medical Drug-releasing Micropump Consumption Market Share by Region (2021-2032)

Figure 16. United States Medical Drug-releasing Micropump Consumption (2021-2032) & (K Units)

Figure 17. China Medical Drug-releasing Micropump Consumption (2021-2032) & (K Units)

Figure 18. Europe Medical Drug-releasing Micropump Consumption (2021-2032) & (K Units)

Figure 19. Japan Medical Drug-releasing Micropump Consumption (2021-2032) & (K Units)

Figure 20. South Korea Medical Drug-releasing Micropump Consumption (2021-2032) &

(K Units)

Figure 21. ASEAN Medical Drug-releasing Micropump Consumption (2021-2032) & (K Units)

Figure 22. India Medical Drug-releasing Micropump Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Medical Drug-releasing Micropump by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Medical Drug-releasing Micropump Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Medical Drug-releasing Micropump Markets in 2025

Figure 26. United States VS China: Medical Drug-releasing Micropump Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Medical Drug-releasing Micropump Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Medical Drug-releasing Micropump Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Medical Drug-releasing Micropump Production Market Share 2025

Figure 30. China Based Manufacturers Medical Drug-releasing Micropump Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Medical Drug-releasing Micropump Production Market Share 2025

Figure 32. World Medical Drug-releasing Micropump Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Medical Drug-releasing Micropump Production Value Market Share by Type in 2025

Figure 34. Open-loop System

Figure 35. Close-loop System

Figure 36. World Medical Drug-releasing Micropump Production Market Share by Type (2021-2032)

Figure 37. World Medical Drug-releasing Micropump Production Value Market Share by Type (2021-2032)

Figure 38. World Medical Drug-releasing Micropump Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Medical Drug-releasing Micropump Production Value by Usage Forms, (USD Million), 2021 & 2025 & 2032

Figure 40. World Medical Drug-releasing Micropump Production Value Market Share by Usage Forms in 2025

Figure 41. Wearable/Surface Mount

Figure 42. Portable External

Figure 43. Bedside/Tablet

Figure 44. Implantable

Figure 45. World Medical Drug-releasing Micropump Production Market Share by Usage Forms (2021-2032)

Figure 46. World Medical Drug-releasing Micropump Production Value Market Share by Usage Forms (2021-2032)

Figure 47. World Medical Drug-releasing Micropump Average Price by Usage Forms (2021-2032) & (US\$/Unit)

Figure 48. World Medical Drug-releasing Micropump Production Value by Flow Rate Levels, (USD Million), 2021 & 2025 & 2032

Figure 49. World Medical Drug-releasing Micropump Production Value Market Share by Flow Rate Levels in 2025

Figure 50. nL/min??L/min

Figure 51. ?L/min?mL/h

Figure 52. mL/h?mL/min

Figure 53. World Medical Drug-releasing Micropump Production Market Share by Flow Rate Levels (2021-2032)

Figure 54. World Medical Drug-releasing Micropump Production Value Market Share by Flow Rate Levels (2021-2032)

Figure 55. World Medical Drug-releasing Micropump Average Price by Flow Rate Levels (2021-2032) & (US\$/Unit)

Figure 56. World Medical Drug-releasing Micropump Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Medical Drug-releasing Micropump Production Value Market Share by Application in 2025

Figure 58. Public Hospital

Figure 59. Private Hospital

Figure 60. World Medical Drug-releasing Micropump Production Market Share by Application (2021-2032)

Figure 61. World Medical Drug-releasing Micropump Production Value Market Share by Application (2021-2032)

Figure 62. World Medical Drug-releasing Micropump Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Medical Drug-releasing Micropump Industry Chain

Figure 64. Medical Drug-releasing Micropump Procurement Model

Figure 65. Medical Drug-releasing Micropump Sales Model

Figure 66. Medical Drug-releasing Micropump Sales Channels, Direct Sales, and

Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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