

# Microneedle Drug Delivery Systems Market Size, Trends, Analysis, and Outlook By Type (Solid, Hollow, Dissolving, Coated, Others), By Material (Silicon, Metal, Polymer, Others), By Application (Dermatology, Drug delivery, Pain management, Cancer therapy, Vaccine delivery, Others), by Region, Country, Segment, and Companies, 2024-2030

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## Abstracts

The global Microneedle Drug Delivery Systems market size is poised to register 8.03% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Microneedle Drug Delivery Systems market across By Type (Solid, Hollow, Dissolving, Coated, Others), By Material (Silicon, Metal, Polymer, Others), By Application (Dermatology, Drug delivery, Pain management, Cancer therapy, Vaccine delivery, Others).

The Microneedle Drug Delivery Systems Market is witnessing growth driven by the increasing demand for painless and patient-friendly drug delivery methods, improved therapeutic efficacy, and enhanced transdermal drug absorption. Microneedle drug delivery systems are minimally invasive devices composed of micro-scale needles that painlessly penetrate the skin's outer layer to deliver therapeutic agents such as drugs, vaccines, and biologics into the systemic circulation or targeted tissue sites. Key trends shaping its future include the development of dissolvable microneedles and biodegradable polymer matrices for controlled and sustained drug release, the integration of microneedle patches with micropump technologies for on-demand and programmable drug delivery, and the customization of microneedle systems to accommodate specific drug formulations, delivery routes, and patient populations. Moreover, factors such as the advancements in microneedle fabrication techniques and

materials, the expansion of clinical trials and regulatory approvals for microneedle-based therapies, and the growing interest in self-administration and home healthcare solutions are expected to drive market growth in 2024 and beyond.

## Microneedle Drug Delivery Systems Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Microneedle Drug Delivery Systems market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Microneedle Drug Delivery Systems survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Microneedle Drug Delivery Systems industry.

## Key market trends defining the global Microneedle Drug Delivery Systems demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Microneedle Drug Delivery Systems Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Microneedle Drug Delivery Systems industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Microneedle Drug Delivery Systems companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Microneedle Drug Delivery Systems industry

Leading Microneedle Drug Delivery Systems companies are boosting investments to

capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Microneedle Drug Delivery Systems companies.

### Microneedle Drug Delivery Systems Market Study- Strategic Analysis Review

The Microneedle Drug Delivery Systems market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### Microneedle Drug Delivery Systems Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Microneedle Drug Delivery Systems industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Microneedle Drug Delivery Systems Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For

each of the six regions, the market size outlook by segments is forecast for 2030.

### North America Microneedle Drug Delivery Systems Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Microneedle Drug Delivery Systems market segments. Similarly, Strong end-user demand is encouraging Canadian Microneedle Drug Delivery Systems companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Microneedle Drug Delivery Systems market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Microneedle Drug Delivery Systems Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Microneedle Drug Delivery Systems industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Microneedle Drug Delivery Systems market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

### Asia Pacific Microneedle Drug Delivery Systems Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Microneedle Drug Delivery Systems in Asia Pacific. In particular, China, India, and South East Asian Microneedle Drug Delivery Systems markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India

offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

**Latin America Microneedle Drug Delivery Systems Market Size Outlook- Continued urbanization and rising income levels**

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

**Middle East and Africa Microneedle Drug Delivery Systems Market Size Outlook- continues its upward trajectory across segments**

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Microneedle Drug Delivery Systems market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Microneedle Drug Delivery Systems.

**Microneedle Drug Delivery Systems Market Company Profiles**

The global Microneedle Drug Delivery Systems market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are 3M, B. Braun, Becton Dickinson and Company, Cardinal Health, Nanopass technologies Ltd, Novartis International AG, Raphas, Smiths Medical, Termo

**Recent Microneedle Drug Delivery Systems Market Developments**

The global Microneedle Drug Delivery Systems market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

**Microneedle Drug Delivery Systems Market Report Scope**

*Microneedle Drug Delivery Systems Market Size, Trends, Analysis, and Outlook By Type (Solid, Hollow, Dissolvin...*

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Type

Solid

Hollow

Dissolving

Coated

Others

## By Material

Silicon

Metal

Polymer

Others

## By Application

Dermatology

Drug delivery

Pain management

Cancer therapy

Vaccine delivery

Others

## Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

3M

B. Braun

Becton Dickinson and Company

Cardinal Health

Nanopass technologies Ltd

Novartis International AG

Raphas

Smiths Medical

Termo

Formats Available: Excel, PDF, and PPT



## Contents

### **1. EXECUTIVE SUMMARY**

- 1.1 Microneedle Drug Delivery Systems Market Overview and Key Findings, 2024
- 1.2 Microneedle Drug Delivery Systems Market Size and Growth Outlook, 2021- 2030
- 1.3 Microneedle Drug Delivery Systems Market Growth Opportunities to 2030
- 1.4 Key Microneedle Drug Delivery Systems Market Trends and Challenges
  - 1.4.1 Microneedle Drug Delivery Systems Market Drivers and Trends
  - 1.4.2 Microneedle Drug Delivery Systems Market Challenges
- 1.5 Competitive Landscape and Key Players
- 1.6 Competitive Analysis- Growth Strategies Adopted by Leading Microneedle Drug Delivery Systems Companies

### **2. MICRONEEDLE DRUG DELIVERY SYSTEMS MARKET SIZE OUTLOOK TO 2030**

- 2.1 Microneedle Drug Delivery Systems Market Size Outlook, USD Million, 2021- 2030
- 2.2 Microneedle Drug Delivery Systems Incremental Market Growth Outlook, %, 2021-2030
- 2.3 Segment Snapshot, 2024

### **3. MICRONEEDLE DRUG DELIVERY SYSTEMS MARKET- STRATEGIC ANALYSIS REVIEW**

- 3.1 Porter's Five Forces Analysis
  - \* Threat of New Entrants
  - \* Threat of Substitutes
  - \* Intensity of Competitive Rivalry
  - \* Bargaining Power of Buyers
  - \* Bargaining Power of Suppliers
- 3.2 Value Chain Analysis
- 3.3 SWOT Analysis

### **4. MICRONEEDLE DRUG DELIVERY SYSTEMS MARKET SEGMENTATION ANALYSIS AND OUTLOOK**

- 4.1 Market Segmentation and Scope
- 4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
  - By Type

Solid  
Hollow  
Dissolving  
Coated  
Others  
By Material  
Silicon  
Metal  
Polymer  
Others  
By Application  
Dermatology  
Drug delivery  
Pain management  
Cancer therapy  
Vaccine delivery  
Others

4.3 Growth Prospects and Niche Opportunities, 2023- 2030

4.4 Regional comparison of Market Growth, CAGR, 2023-2030

## **5. REGION-WISE MARKET OUTLOOK TO 2030**

5.1 Key Findings for Asia Pacific Microneedle Drug Delivery Systems Market, 2025

5.2 Asia Pacific Microneedle Drug Delivery Systems Market Size Outlook by Type, 2021- 2030

5.3 Asia Pacific Microneedle Drug Delivery Systems Market Size Outlook by Application, 2021- 2030

5.4 Key Findings for Europe Microneedle Drug Delivery Systems Market, 2025

5.5 Europe Microneedle Drug Delivery Systems Market Size Outlook by Type, 2021- 2030

5.6 Europe Microneedle Drug Delivery Systems Market Size Outlook by Application, 2021- 2030

5.7 Key Findings for North America Microneedle Drug Delivery Systems Market, 2025

5.8 North America Microneedle Drug Delivery Systems Market Size Outlook by Type, 2021- 2030

5.9 North America Microneedle Drug Delivery Systems Market Size Outlook by Application, 2021- 2030

5.10 Key Findings for South America Microneedle Drug Delivery Systems Market, 2025

5.11 South America Pacific Microneedle Drug Delivery Systems Market Size Outlook by

Type, 2021- 2030

5.12 South America Microneedle Drug Delivery Systems Market Size Outlook by Application, 2021- 2030

5.13 Key Findings for Middle East and Africa Microneedle Drug Delivery Systems Market, 2025

5.14 Middle East Africa Microneedle Drug Delivery Systems Market Size Outlook by Type, 2021- 2030

5.15 Middle East Africa Microneedle Drug Delivery Systems Market Size Outlook by Application, 2021- 2030

## **6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030**

6.1 US Microneedle Drug Delivery Systems Market Size Outlook and Revenue Growth Forecasts

6.2 US Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.3 Canada Market Size Outlook and Revenue Growth Forecasts

6.4 Canada Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.6 Mexico Market Size Outlook and Revenue Growth Forecasts

6.6 Mexico Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.7 Germany Market Size Outlook and Revenue Growth Forecasts

6.8 Germany Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.9 France Market Size Outlook and Revenue Growth Forecasts

6.10 France Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.11 UK Market Size Outlook and Revenue Growth Forecasts

6.12 UK Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.13 Spain Market Size Outlook and Revenue Growth Forecasts

6.14 Spain Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.16 Italy Market Size Outlook and Revenue Growth Forecasts

6.16 Italy Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts

6.18 Rest of Europe Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.19 China Market Size Outlook and Revenue Growth Forecasts

6.20 China Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.21 India Market Size Outlook and Revenue Growth Forecasts

6.22 India Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.23 Japan Market Size Outlook and Revenue Growth Forecasts

6.24 Japan Microneedle Drug Delivery Systems Industry Drivers and Opportunities

6.26 South Korea Market Size Outlook and Revenue Growth Forecasts

- 6.26 South Korea Microneedle Drug Delivery Systems Industry Drivers and Opportunities
- 6.27 Australia Market Size Outlook and Revenue Growth Forecasts
- 6.28 Australia Microneedle Drug Delivery Systems Industry Drivers and Opportunities
- 6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts
- 6.30 South East Asia Microneedle Drug Delivery Systems Industry Drivers and Opportunities
- 6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
- 6.32 Rest of Asia Pacific Microneedle Drug Delivery Systems Industry Drivers and Opportunities
- 6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
- 6.34 Brazil Microneedle Drug Delivery Systems Industry Drivers and Opportunities
- 6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
- 6.36 Argentina Microneedle Drug Delivery Systems Industry Drivers and Opportunities
- 6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
- 6.38 Rest of South America Microneedle Drug Delivery Systems Industry Drivers and Opportunities
- 6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
- 6.40 Middle East Microneedle Drug Delivery Systems Industry Drivers and Opportunities
- 6.41 Africa Market Size Outlook and Revenue Growth Forecasts
- 6.42 Africa Microneedle Drug Delivery Systems Industry Drivers and Opportunities

## **7. MICRONEEDLE DRUG DELIVERY SYSTEMS MARKET OUTLOOK ACROSS SCENARIOS**

- 7.1 Low Growth Case
- 7.2 Reference Growth Case
- 7.3 High Growth Case

## **8. MICRONEEDLE DRUG DELIVERY SYSTEMS COMPANY PROFILES**

- 8.1 Profiles of Leading Microneedle Drug Delivery Systems Companies in the Market
- 8.2 Business Descriptions, SWOT Analysis, and Growth Strategies
- 8.3 Financial Performance and Key Metrics

### **3M**

B. Braun

Becton Dickinson and Company  
Cardinal Health  
Nanopass technologies Ltd  
Novartis International AG  
Raphas  
Smiths Medical  
Termo

## **9. APPENDIX**

- 9.1 Scope of the Report
- 9.2 Research Methodology and Data Sources
- 9.3 Glossary of Terms
- 9.4 Market Definitions
- 9.5 Contact Information

## I would like to order

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