

Global Painless Microneedle Patch Market Growth 2026-2032

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Abstracts

The global Painless Microneedle Patch market size is predicted to grow from US\$ 396 million in 2025 to US\$ 635 million in 2032; it is expected to grow at a CAGR of 7.0% from 2026 to 2032.

Painless microneedle patches are skin-applied patches covered with microscopic needles that are short enough to avoid reaching most pain receptors, creating tiny pathways through the outer skin layer to deliver active ingredients with minimal discomfort. They're commonly classified as soluble and insoluble: soluble microneedle patches use needles made from dissolvable, skin-safe materials (such as sugars or biodegradable polymers) that dissolve after application and release the payload, while insoluble microneedle patches use needles made from non-dissolving materials (such as metal, silicon, or rigid polymers) that either create microchannels for a separate formulation to penetrate or carry a drug coating on the needle surface before the patch is removed. Consumer/cosmetic microneedle patches typically cost between \$0.75 and \$1.60 per patch. Vaccine microarray patches (MAPs) cost between \$0.85 and \$5.00 per dose/patch.

microneedle patches sit at the intersection of transdermal device manufacturing and drug-product supply. Upstream inputs include microneedle substrate materials (e.g., medical polymers, sugars/hydrogels for dissolving tips, metals/ceramics for solid arrays), drug substance or vaccine antigen plus stabilizing excipients, precision tooling (micro-molds, etching/laser micromachining equipment), and cleanroom-grade converting materials (backing films, pressure-sensitive adhesives, release liners, desiccants, foil pouches). Manufacturing typically combines microstructure fabrication (molding/etching/printing), drug loading or tip casting/coating, controlled drying and moisture management, assembly/lamination, packaging, and extensive in-process and

release testing (dose uniformity, mechanical strength/insertion performance, bioburden/sterility approach, stability). Downstream, microneedle patches move through clinical-supply and commercial supply chains that resemble combination products: they require device + drug regulatory quality systems, validated packaging and distribution (often with humidity control), and channels that range from mass retail (cosmetic “microdart” patches) to healthcare procurement for vaccines/therapeutics; end-use workflows may include self-administration with minimal training, or administration protocols with applicators and traceability in immunization programs.

The microneedle patches market is developing along two tracks: consumer skincare patches are already commercial and help normalize the form factor, while pharma/vaccine MAPs are advancing through clinical development and manufacturing scale-up as companies pursue easier administration, better patient acceptance, and potential reductions in cold-chain and sharps waste depending on formulation. Near-term competition is centered on platform performance (reliable skin penetration and dose delivery), manufacturability (high-throughput, low-defect microfabrication and drug-loading yields), and regulatory readiness for combination products, which together create high barriers to entry and favor a small set of platform owners and CDMOs. Adoption tends to be indication-specific: microneedle patches are most compelling where adherence, ease of use, and decentralized delivery matter (vaccination campaigns, chronic self-injected biologics, pediatric use), but they must compete against improved autoinjectors, nasal/oral alternatives, and established transdermal systems. Over the next several years, the key market inflection will be successful late-stage trials and the first large-scale approvals that validate cost, stability, and real-world usability—unlocking broader partnering, capacity investment, and standardized manufacturing/quality expectations across the ecosystem.

LP Information, Inc. (LPI) ' newest research report, the “Painless Microneedle Patch Industry Forecast” looks at past sales and reviews total world Painless Microneedle Patch sales in 2025, providing a comprehensive analysis by region and market sector of projected Painless Microneedle Patch sales for 2026 through 2032. With Painless Microneedle Patch sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Painless Microneedle Patch industry.

This Insight Report provides a comprehensive analysis of the global Painless Microneedle Patch landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with

a focus on Painless Microneedle Patch portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Painless Microneedle Patch market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Painless Microneedle Patch and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Painless Microneedle Patch.

This report presents a comprehensive overview, market shares, and growth opportunities of Painless Microneedle Patch market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Dissolving

Non-dissolving

Segmentation by Microneedle Material:

Hyaluronic Acid

Taurine

PGA, PLA, PP

Segmentation by Form of Use:

Patches

Direct Topical

Segmentation by Application:

Medical

Cosmetics

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Kindeva

Raphas

CosMED Pharmaceutical

Vaxess Technologies

Micron Biomedical

LTS Lohmann Therapie-Systeme

ArrayPatch

CeraVx

Zhongke Microneedle (Beijing) Technology

Zhuhai Youwe Biotechnology

Youwei (Zhuhai) Biotechnology

WCC Biomedical

Hisamitsu Pharmaceutical

Key Questions Addressed in this Report

What is the 10-year outlook for the global Painless Microneedle Patch market?

What factors are driving Painless Microneedle Patch market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Painless Microneedle Patch market opportunities vary by end market size?

How does Painless Microneedle Patch break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Painless Microneedle Patch Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Painless Microneedle Patch by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Painless Microneedle Patch by Country/Region, 2021, 2025 & 2032

2.2 Painless Microneedle Patch Segment by Type

- 2.2.1 Dissolving
- 2.2.2 Non-dissolving
- 2.2.3 Painless Microneedle Patch Sales by Type
 - 2.2.3.1 Global Painless Microneedle Patch Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Painless Microneedle Patch Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Painless Microneedle Patch Sale Price by Type (2021-2026)

2.3 Painless Microneedle Patch Segment by Microneedle Material

- 2.3.1 Hyaluronic Acid
- 2.3.2 Taurine
- 2.3.3 PGA, PLA, PP
- 2.3.4 Painless Microneedle Patch Sales by Microneedle Material
 - 2.3.4.1 Global Painless Microneedle Patch Sales Market Share by Microneedle Material (2021-2026)
 - 2.3.4.2 Global Painless Microneedle Patch Revenue and Market Share by Microneedle Material (2021-2026)
 - 2.3.4.3 Global Painless Microneedle Patch Sale Price by Microneedle Material

(2021-2026)

2.4 Painless Microneedle Patch Segment by Form of Use

2.4.1 Patches

2.4.2 Direct Topical

2.4.3 Painless Microneedle Patch Sales by Form of Use

2.4.3.1 Global Painless Microneedle Patch Sales Market Share by Form of Use

(2021-2026)

2.4.3.2 Global Painless Microneedle Patch Revenue and Market Share by Form of Use (2021-2026)

2.4.3.3 Global Painless Microneedle Patch Sale Price by Form of Use (2021-2026)

2.5 Painless Microneedle Patch Segment by Application

2.5.1 Medical

2.5.2 Cosmetics

2.5.3 Painless Microneedle Patch Sales by Application

2.5.3.1 Global Painless Microneedle Patch Sale Market Share by Application

(2021-2026)

2.5.3.2 Global Painless Microneedle Patch Revenue and Market Share by Application (2021-2026)

2.5.3.3 Global Painless Microneedle Patch Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Painless Microneedle Patch Breakdown Data by Company

3.1.1 Global Painless Microneedle Patch Annual Sales by Company (2021-2026)

3.1.2 Global Painless Microneedle Patch Sales Market Share by Company

(2021-2026)

3.2 Global Painless Microneedle Patch Annual Revenue by Company (2021-2026)

3.2.1 Global Painless Microneedle Patch Revenue by Company (2021-2026)

3.2.2 Global Painless Microneedle Patch Revenue Market Share by Company

(2021-2026)

3.3 Global Painless Microneedle Patch Sale Price by Company

3.4 Key Manufacturers Painless Microneedle Patch Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Painless Microneedle Patch Product Location Distribution

3.4.2 Players Painless Microneedle Patch Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PAINLESS MICRONEEDLE PATCH BY GEOGRAPHIC REGION

4.1 World Historic Painless Microneedle Patch Market Size by Geographic Region (2021-2026)

4.1.1 Global Painless Microneedle Patch Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Painless Microneedle Patch Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Painless Microneedle Patch Market Size by Country/Region (2021-2026)

4.2.1 Global Painless Microneedle Patch Annual Sales by Country/Region (2021-2026)

4.2.2 Global Painless Microneedle Patch Annual Revenue by Country/Region (2021-2026)

4.3 Americas Painless Microneedle Patch Sales Growth

4.4 APAC Painless Microneedle Patch Sales Growth

4.5 Europe Painless Microneedle Patch Sales Growth

4.6 Middle East & Africa Painless Microneedle Patch Sales Growth

5 AMERICAS

5.1 Americas Painless Microneedle Patch Sales by Country

5.1.1 Americas Painless Microneedle Patch Sales by Country (2021-2026)

5.1.2 Americas Painless Microneedle Patch Revenue by Country (2021-2026)

5.2 Americas Painless Microneedle Patch Sales by Type (2021-2026)

5.3 Americas Painless Microneedle Patch Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Painless Microneedle Patch Sales by Region

6.1.1 APAC Painless Microneedle Patch Sales by Region (2021-2026)

6.1.2 APAC Painless Microneedle Patch Revenue by Region (2021-2026)

- 6.2 APAC Painless Microneedle Patch Sales by Type (2021-2026)
- 6.3 APAC Painless Microneedle Patch Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Painless Microneedle Patch by Country
 - 7.1.1 Europe Painless Microneedle Patch Sales by Country (2021-2026)
 - 7.1.2 Europe Painless Microneedle Patch Revenue by Country (2021-2026)
- 7.2 Europe Painless Microneedle Patch Sales by Type (2021-2026)
- 7.3 Europe Painless Microneedle Patch Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Painless Microneedle Patch by Country
 - 8.1.1 Middle East & Africa Painless Microneedle Patch Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Painless Microneedle Patch Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Painless Microneedle Patch Sales by Type (2021-2026)
- 8.3 Middle East & Africa Painless Microneedle Patch Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Painless Microneedle Patch
- 10.3 Manufacturing Process Analysis of Painless Microneedle Patch
- 10.4 Industry Chain Structure of Painless Microneedle Patch

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Painless Microneedle Patch Distributors
- 11.3 Painless Microneedle Patch Customer

12 WORLD FORECAST REVIEW FOR PAINLESS MICRONEEDLE PATCH BY GEOGRAPHIC REGION

- 12.1 Global Painless Microneedle Patch Market Size Forecast by Region
 - 12.1.1 Global Painless Microneedle Patch Forecast by Region (2027-2032)
 - 12.1.2 Global Painless Microneedle Patch Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Painless Microneedle Patch Forecast by Type (2027-2032)
- 12.7 Global Painless Microneedle Patch Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Kindeva
 - 13.1.1 Kindeva Company Information
 - 13.1.2 Kindeva Painless Microneedle Patch Product Portfolios and Specifications
 - 13.1.3 Kindeva Painless Microneedle Patch Sales, Revenue, Price and Gross Margin

(2021-2026)

13.1.4 Kindeva Main Business Overview

13.1.5 Kindeva Latest Developments

13.2 Raphas

13.2.1 Raphas Company Information

13.2.2 Raphas Painless Microneedle Patch Product Portfolios and Specifications

13.2.3 Raphas Painless Microneedle Patch Sales, Revenue, Price and Gross Margin

(2021-2026)

13.2.4 Raphas Main Business Overview

13.2.5 Raphas Latest Developments

13.3 CosMED Pharmaceutical

13.3.1 CosMED Pharmaceutical Company Information

13.3.2 CosMED Pharmaceutical Painless Microneedle Patch Product Portfolios and Specifications

13.3.3 CosMED Pharmaceutical Painless Microneedle Patch Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 CosMED Pharmaceutical Main Business Overview

13.3.5 CosMED Pharmaceutical Latest Developments

13.4 Vaxess Technologies

13.4.1 Vaxess Technologies Company Information

13.4.2 Vaxess Technologies Painless Microneedle Patch Product Portfolios and Specifications

13.4.3 Vaxess Technologies Painless Microneedle Patch Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Vaxess Technologies Main Business Overview

13.4.5 Vaxess Technologies Latest Developments

13.5 Micron Biomedical

13.5.1 Micron Biomedical Company Information

13.5.2 Micron Biomedical Painless Microneedle Patch Product Portfolios and Specifications

13.5.3 Micron Biomedical Painless Microneedle Patch Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Micron Biomedical Main Business Overview

13.5.5 Micron Biomedical Latest Developments

13.6 LTS Lohmann Therapie-Systeme

13.6.1 LTS Lohmann Therapie-Systeme Company Information

13.6.2 LTS Lohmann Therapie-Systeme Painless Microneedle Patch Product Portfolios and Specifications

13.6.3 LTS Lohmann Therapie-Systeme Painless Microneedle Patch Sales, Revenue,

Price and Gross Margin (2021-2026)

13.6.4 LTS Lohmann Therapie-Systeme Main Business Overview

13.6.5 LTS Lohmann Therapie-Systeme Latest Developments

13.7 ArrayPatch

13.7.1 ArrayPatch Company Information

13.7.2 ArrayPatch Painless Microneedle Patch Product Portfolios and Specifications

13.7.3 ArrayPatch Painless Microneedle Patch Sales, Revenue, Price and Gross

Margin (2021-2026)

13.7.4 ArrayPatch Main Business Overview

13.7.5 ArrayPatch Latest Developments

13.8 CeraVx

13.8.1 CeraVx Company Information

13.8.2 CeraVx Painless Microneedle Patch Product Portfolios and Specifications

13.8.3 CeraVx Painless Microneedle Patch Sales, Revenue, Price and Gross Margin

(2021-2026)

13.8.4 CeraVx Main Business Overview

13.8.5 CeraVx Latest Developments

13.9 Zhongke Microneedle (Beijing) Technology

13.9.1 Zhongke Microneedle (Beijing) Technology Company Information

13.9.2 Zhongke Microneedle (Beijing) Technology Painless Microneedle Patch Product Portfolios and Specifications

13.9.3 Zhongke Microneedle (Beijing) Technology Painless Microneedle Patch Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Zhongke Microneedle (Beijing) Technology Main Business Overview

13.9.5 Zhongke Microneedle (Beijing) Technology Latest Developments

13.10 Zhuhai Youwe Biotechnology

13.10.1 Zhuhai Youwe Biotechnology Company Information

13.10.2 Zhuhai Youwe Biotechnology Painless Microneedle Patch Product Portfolios and Specifications

13.10.3 Zhuhai Youwe Biotechnology Painless Microneedle Patch Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Zhuhai Youwe Biotechnology Main Business Overview

13.10.5 Zhuhai Youwe Biotechnology Latest Developments

13.11 Youwei (Zhuhai) Biotechnology

13.11.1 Youwei (Zhuhai) Biotechnology Company Information

13.11.2 Youwei (Zhuhai) Biotechnology Painless Microneedle Patch Product Portfolios and Specifications

13.11.3 Youwei (Zhuhai) Biotechnology Painless Microneedle Patch Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.11.4 Youwei (Zhuhai) Biotechnology Main Business Overview
- 13.11.5 Youwei (Zhuhai) Biotechnology Latest Developments
- 13.12 WCC Biomedical
 - 13.12.1 WCC Biomedical Company Information
 - 13.12.2 WCC Biomedical Painless Microneedle Patch Product Portfolios and Specifications
 - 13.12.3 WCC Biomedical Painless Microneedle Patch Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 WCC Biomedical Main Business Overview
 - 13.12.5 WCC Biomedical Latest Developments
- 13.13 Hisamitsu Pharmaceutical
 - 13.13.1 Hisamitsu Pharmaceutical Company Information
 - 13.13.2 Hisamitsu Pharmaceutical Painless Microneedle Patch Product Portfolios and Specifications
 - 13.13.3 Hisamitsu Pharmaceutical Painless Microneedle Patch Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Hisamitsu Pharmaceutical Main Business Overview
 - 13.13.5 Hisamitsu Pharmaceutical Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Painless Microneedle Patch Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Painless Microneedle Patch Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Dissolving

Table 4. Major Players of Non-dissolving

Table 5. Global Painless Microneedle Patch Sales by Type (2021-2026) & (K Pcs)

Table 6. Global Painless Microneedle Patch Sales Market Share by Type (2021-2026)

Table 7. Global Painless Microneedle Patch Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Painless Microneedle Patch Revenue Market Share by Type (2021-2026)

Table 9. Global Painless Microneedle Patch Sale Price by Type (2021-2026) & (US\$/Pc)

Table 10. Major Players of Hyaluronic Acid

Table 11. Major Players of Taurine

Table 12. Major Players of PGA, PLA, PP

Table 13. Global Painless Microneedle Patch Sales by Microneedle Material (2021-2026) & (K Pcs)

Table 14. Global Painless Microneedle Patch Sales Market Share by Microneedle Material (2021-2026)

Table 15. Global Painless Microneedle Patch Revenue by Microneedle Material (2021-2026) & (\$ million)

Table 16. Global Painless Microneedle Patch Revenue Market Share by Microneedle Material (2021-2026)

Table 17. Global Painless Microneedle Patch Sale Price by Microneedle Material (2021-2026) & (US\$/Pc)

Table 18. Major Players of Patches

Table 19. Major Players of Direct Topical

Table 20. Global Painless Microneedle Patch Sales by Form of Use (2021-2026) & (K Pcs)

Table 21. Global Painless Microneedle Patch Sales Market Share by Form of Use (2021-2026)

Table 22. Global Painless Microneedle Patch Revenue by Form of Use (2021-2026) & (\$ million)

Table 23. Global Painless Microneedle Patch Revenue Market Share by Form of Use

(2021-2026)

Table 24. Global Painless Microneedle Patch Sale Price by Form of Use (2021-2026) & (US\$/Pc)

Table 25. Global Painless Microneedle Patch Sale by Application (2021-2026) & (K Pcs)

Table 26. Global Painless Microneedle Patch Sale Market Share by Application (2021-2026)

Table 27. Global Painless Microneedle Patch Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Painless Microneedle Patch Revenue Market Share by Application (2021-2026)

Table 29. Global Painless Microneedle Patch Sale Price by Application (2021-2026) & (US\$/Pc)

Table 30. Global Painless Microneedle Patch Sales by Company (2021-2026) & (K Pcs)

Table 31. Global Painless Microneedle Patch Sales Market Share by Company (2021-2026)

Table 32. Global Painless Microneedle Patch Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global Painless Microneedle Patch Revenue Market Share by Company (2021-2026)

Table 34. Global Painless Microneedle Patch Sale Price by Company (2021-2026) & (US\$/Pc)

Table 35. Key Manufacturers Painless Microneedle Patch Producing Area Distribution and Sales Area

Table 36. Players Painless Microneedle Patch Products Offered

Table 37. Painless Microneedle Patch Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global Painless Microneedle Patch Sales by Geographic Region (2021-2026) & (K Pcs)

Table 41. Global Painless Microneedle Patch Sales Market Share Geographic Region (2021-2026)

Table 42. Global Painless Microneedle Patch Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Painless Microneedle Patch Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global Painless Microneedle Patch Sales by Country/Region (2021-2026) & (K Pcs)

Table 45. Global Painless Microneedle Patch Sales Market Share by Country/Region

(2021-2026)

Table 46. Global Painless Microneedle Patch Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global Painless Microneedle Patch Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Painless Microneedle Patch Sales by Country (2021-2026) & (K Pcs)

Table 49. Americas Painless Microneedle Patch Sales Market Share by Country (2021-2026)

Table 50. Americas Painless Microneedle Patch Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Painless Microneedle Patch Sales by Type (2021-2026) & (K Pcs)

Table 52. Americas Painless Microneedle Patch Sales by Application (2021-2026) & (K Pcs)

Table 53. APAC Painless Microneedle Patch Sales by Region (2021-2026) & (K Pcs)

Table 54. APAC Painless Microneedle Patch Sales Market Share by Region (2021-2026)

Table 55. APAC Painless Microneedle Patch Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Painless Microneedle Patch Sales by Type (2021-2026) & (K Pcs)

Table 57. APAC Painless Microneedle Patch Sales by Application (2021-2026) & (K Pcs)

Table 58. Europe Painless Microneedle Patch Sales by Country (2021-2026) & (K Pcs)

Table 59. Europe Painless Microneedle Patch Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Painless Microneedle Patch Sales by Type (2021-2026) & (K Pcs)

Table 61. Europe Painless Microneedle Patch Sales by Application (2021-2026) & (K Pcs)

Table 62. Middle East & Africa Painless Microneedle Patch Sales by Country (2021-2026) & (K Pcs)

Table 63. Middle East & Africa Painless Microneedle Patch Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa Painless Microneedle Patch Sales by Type (2021-2026) & (K Pcs)

Table 65. Middle East & Africa Painless Microneedle Patch Sales by Application (2021-2026) & (K Pcs)

Table 66. Key Market Drivers & Growth Opportunities of Painless Microneedle Patch

Table 67. Key Market Challenges & Risks of Painless Microneedle Patch

Table 68. Key Industry Trends of Painless Microneedle Patch

- Table 69. Painless Microneedle Patch Raw Material
- Table 70. Key Suppliers of Raw Materials
- Table 71. Painless Microneedle Patch Distributors List
- Table 72. Painless Microneedle Patch Customer List
- Table 73. Global Painless Microneedle Patch Sales Forecast by Region (2027-2032) & (K Pcs)
- Table 74. Global Painless Microneedle Patch Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 75. Americas Painless Microneedle Patch Sales Forecast by Country (2027-2032) & (K Pcs)
- Table 76. Americas Painless Microneedle Patch Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 77. APAC Painless Microneedle Patch Sales Forecast by Region (2027-2032) & (K Pcs)
- Table 78. APAC Painless Microneedle Patch Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 79. Europe Painless Microneedle Patch Sales Forecast by Country (2027-2032) & (K Pcs)
- Table 80. Europe Painless Microneedle Patch Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 81. Middle East & Africa Painless Microneedle Patch Sales Forecast by Country (2027-2032) & (K Pcs)
- Table 82. Middle East & Africa Painless Microneedle Patch Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 83. Global Painless Microneedle Patch Sales Forecast by Type (2027-2032) & (K Pcs)
- Table 84. Global Painless Microneedle Patch Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 85. Global Painless Microneedle Patch Sales Forecast by Application (2027-2032) & (K Pcs)
- Table 86. Global Painless Microneedle Patch Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 87. Kindeva Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors
- Table 88. Kindeva Painless Microneedle Patch Product Portfolios and Specifications
- Table 89. Kindeva Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
- Table 90. Kindeva Main Business
- Table 91. Kindeva Latest Developments

- Table 92. Raphas Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors
- Table 93. Raphas Painless Microneedle Patch Product Portfolios and Specifications
- Table 94. Raphas Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
- Table 95. Raphas Main Business
- Table 96. Raphas Latest Developments
- Table 97. CosMED Pharmaceutical Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors
- Table 98. CosMED Pharmaceutical Painless Microneedle Patch Product Portfolios and Specifications
- Table 99. CosMED Pharmaceutical Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
- Table 100. CosMED Pharmaceutical Main Business
- Table 101. CosMED Pharmaceutical Latest Developments
- Table 102. Vaxess Technologies Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors
- Table 103. Vaxess Technologies Painless Microneedle Patch Product Portfolios and Specifications
- Table 104. Vaxess Technologies Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
- Table 105. Vaxess Technologies Main Business
- Table 106. Vaxess Technologies Latest Developments
- Table 107. Micron Biomedical Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors
- Table 108. Micron Biomedical Painless Microneedle Patch Product Portfolios and Specifications
- Table 109. Micron Biomedical Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
- Table 110. Micron Biomedical Main Business
- Table 111. Micron Biomedical Latest Developments
- Table 112. LTS Lohmann Therapie-Systeme Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors
- Table 113. LTS Lohmann Therapie-Systeme Painless Microneedle Patch Product Portfolios and Specifications
- Table 114. LTS Lohmann Therapie-Systeme Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)
- Table 115. LTS Lohmann Therapie-Systeme Main Business
- Table 116. LTS Lohmann Therapie-Systeme Latest Developments

Table 117. ArrayPatch Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors

Table 118. ArrayPatch Painless Microneedle Patch Product Portfolios and Specifications

Table 119. ArrayPatch Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 120. ArrayPatch Main Business

Table 121. ArrayPatch Latest Developments

Table 122. CeraVx Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors

Table 123. CeraVx Painless Microneedle Patch Product Portfolios and Specifications

Table 124. CeraVx Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 125. CeraVx Main Business

Table 126. CeraVx Latest Developments

Table 127. Zhongke Microneedle (Beijing) Technology Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors

Table 128. Zhongke Microneedle (Beijing) Technology Painless Microneedle Patch Product Portfolios and Specifications

Table 129. Zhongke Microneedle (Beijing) Technology Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 130. Zhongke Microneedle (Beijing) Technology Main Business

Table 131. Zhongke Microneedle (Beijing) Technology Latest Developments

Table 132. Zhuhai Youwe Biotechnology Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors

Table 133. Zhuhai Youwe Biotechnology Painless Microneedle Patch Product Portfolios and Specifications

Table 134. Zhuhai Youwe Biotechnology Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 135. Zhuhai Youwe Biotechnology Main Business

Table 136. Zhuhai Youwe Biotechnology Latest Developments

Table 137. Youwei (Zhuhai) Biotechnology Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors

Table 138. Youwei (Zhuhai) Biotechnology Painless Microneedle Patch Product Portfolios and Specifications

Table 139. Youwei (Zhuhai) Biotechnology Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 140. Youwei (Zhuhai) Biotechnology Main Business

Table 141. Youwei (Zhuhai) Biotechnology Latest Developments

Table 142. WCC Biomedical Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors

Table 143. WCC Biomedical Painless Microneedle Patch Product Portfolios and Specifications

Table 144. WCC Biomedical Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 145. WCC Biomedical Main Business

Table 146. WCC Biomedical Latest Developments

Table 147. Hisamitsu Pharmaceutical Basic Information, Painless Microneedle Patch Manufacturing Base, Sales Area and Its Competitors

Table 148. Hisamitsu Pharmaceutical Painless Microneedle Patch Product Portfolios and Specifications

Table 149. Hisamitsu Pharmaceutical Painless Microneedle Patch Sales (K Pcs), Revenue (\$ Million), Price (US\$/Pc) and Gross Margin (2021-2026)

Table 150. Hisamitsu Pharmaceutical Main Business

Table 151. Hisamitsu Pharmaceutical Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Painless Microneedle Patch
- Figure 2. Painless Microneedle Patch Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Painless Microneedle Patch Sales Growth Rate 2021-2032 (K Pcs)
- Figure 7. Global Painless Microneedle Patch Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Painless Microneedle Patch Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Painless Microneedle Patch Sales Market Share by Country/Region (2025)
- Figure 10. Painless Microneedle Patch Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Dissolving
- Figure 12. Product Picture of Non-dissolving
- Figure 13. Global Painless Microneedle Patch Sales Market Share by Type in 2026
- Figure 14. Global Painless Microneedle Patch Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Hyaluronic Acid
- Figure 16. Product Picture of Taurine
- Figure 17. Product Picture of PGA, PLA, PP
- Figure 18. Global Painless Microneedle Patch Sales Market Share by Microneedle Material in 2026
- Figure 19. Global Painless Microneedle Patch Revenue Market Share by Microneedle Material (2021-2026)
- Figure 20. Product Picture of Patches
- Figure 21. Product Picture of Direct Topical
- Figure 22. Global Painless Microneedle Patch Sales Market Share by Form of Use in 2026
- Figure 23. Global Painless Microneedle Patch Revenue Market Share by Form of Use (2021-2026)
- Figure 24. Painless Microneedle Patch Consumed in Medical
- Figure 25. Global Painless Microneedle Patch Market: Medical (2021-2026) & (K Pcs)
- Figure 26. Painless Microneedle Patch Consumed in Cosmetics
- Figure 27. Global Painless Microneedle Patch Market: Cosmetics (2021-2026) & (K

Pcs)

Figure 28. Global Painless Microneedle Patch Sale Market Share by Application (2025)

Figure 29. Global Painless Microneedle Patch Revenue Market Share by Application in 2026

Figure 30. Painless Microneedle Patch Sales by Company in 2026 (K Pcs)

Figure 31. Global Painless Microneedle Patch Sales Market Share by Company in 2026

Figure 32. Painless Microneedle Patch Revenue by Company in 2026 (\$ millions)

Figure 33. Global Painless Microneedle Patch Revenue Market Share by Company in 2026

Figure 34. Global Painless Microneedle Patch Sales Market Share by Geographic Region (2021-2026)

Figure 35. Global Painless Microneedle Patch Revenue Market Share by Geographic Region in 2026

Figure 36. Americas Painless Microneedle Patch Sales 2021-2026 (K Pcs)

Figure 37. Americas Painless Microneedle Patch Revenue 2021-2026 (\$ millions)

Figure 38. APAC Painless Microneedle Patch Sales 2021-2026 (K Pcs)

Figure 39. APAC Painless Microneedle Patch Revenue 2021-2026 (\$ millions)

Figure 40. Europe Painless Microneedle Patch Sales 2021-2026 (K Pcs)

Figure 41. Europe Painless Microneedle Patch Revenue 2021-2026 (\$ millions)

Figure 42. Middle East & Africa Painless Microneedle Patch Sales 2021-2026 (K Pcs)

Figure 43. Middle East & Africa Painless Microneedle Patch Revenue 2021-2026 (\$ millions)

Figure 44. Americas Painless Microneedle Patch Sales Market Share by Country in 2026

Figure 45. Americas Painless Microneedle Patch Revenue Market Share by Country (2021-2026)

Figure 46. Americas Painless Microneedle Patch Sales Market Share by Type (2021-2026)

Figure 47. Americas Painless Microneedle Patch Sales Market Share by Application (2021-2026)

Figure 48. United States Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 49. Canada Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 50. Mexico Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 51. Brazil Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 52. APAC Painless Microneedle Patch Sales Market Share by Region in 2026

Figure 53. APAC Painless Microneedle Patch Revenue Market Share by Region (2021-2026)

Figure 54. APAC Painless Microneedle Patch Sales Market Share by Type (2021-2026)

Figure 55. APAC Painless Microneedle Patch Sales Market Share by Application (2021-2026)

Figure 56. China Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 57. Japan Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 58. South Korea Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 59. Southeast Asia Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 60. India Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 61. Australia Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 62. China Taiwan Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 63. Europe Painless Microneedle Patch Sales Market Share by Country in 2026

Figure 64. Europe Painless Microneedle Patch Revenue Market Share by Country (2021-2026)

Figure 65. Europe Painless Microneedle Patch Sales Market Share by Type (2021-2026)

Figure 66. Europe Painless Microneedle Patch Sales Market Share by Application (2021-2026)

Figure 67. Germany Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 68. France Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 69. UK Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 70. Italy Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 71. Russia Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 72. Middle East & Africa Painless Microneedle Patch Sales Market Share by Country (2021-2026)

Figure 73. Middle East & Africa Painless Microneedle Patch Sales Market Share by Type (2021-2026)

Figure 74. Middle East & Africa Painless Microneedle Patch Sales Market Share by Application (2021-2026)

Figure 75. Egypt Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 76. South Africa Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 77. Israel Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 78. Turkey Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 79. GCC Countries Painless Microneedle Patch Revenue Growth 2021-2026 (\$ millions)

Figure 80. Manufacturing Cost Structure Analysis of Painless Microneedle Patch in 2026

Figure 81. Manufacturing Process Analysis of Painless Microneedle Patch

Figure 82. Industry Chain Structure of Painless Microneedle Patch

Figure 83. Channels of Distribution

Figure 84. Global Painless Microneedle Patch Sales Market Forecast by Region (2027-2032)

Figure 85. Global Painless Microneedle Patch Revenue Market Share Forecast by Region (2027-2032)

Figure 86. Global Painless Microneedle Patch Sales Market Share Forecast by Type (2027-2032)

Figure 87. Global Painless Microneedle Patch Revenue Market Share Forecast by Type (2027-2032)

Figure 88. Global Painless Microneedle Patch Sales Market Share Forecast by Application (2027-2032)

Figure 89. Global Painless Microneedle Patch Revenue Market Share Forecast by Application (2027-2032)

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