

Global Active Transdermal Drug Delivery Device Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Active Transdermal Drug Delivery Device market size is expected to reach \$ 7929 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Active Transdermal Drug Delivery Device refers to a class of drug-device combination products that utilize external energy input to actively overcome the skin's stratum corneum barrier, enabling controlled, adjustable, and programmable drug delivery. Its essence lies in the word 'active', distinguishing it from traditional patches that rely on passive diffusion driven by concentration gradients. Such devices employ technologies including iontophoresis, electroporation, sonophoresis, radiofrequency microporation, or hollow microneedles combined with micropumps to propel or inject drugs into the body. From an industry perspective, this field is currently undergoing a transition from passive transdermal delivery to intelligent active delivery. Product forms range from reusable electronic patches to integrated systems combining single-use microneedle arrays with micro-reservoirs. With the explosive growth of biologics and the pressing patient demand for non-invasive, on-demand drug delivery, Active Transdermal Drug Delivery Devices are moving from laboratory prototypes toward commercial validation. They represent not only an innovation in drug delivery methods but also a strategic bridge between pharmaceuticals and devices, offering a new infrastructure for precision therapy and chronic disease management.

Market Development Opportunities and Key Drivers

The maturation of underlying technologies such as microelectronics and flexible substrates is propelling Active Transdermal Drug Delivery Devices from laboratory prototypes toward scalable production and wearability. Patients requiring long-term

medication for conditions such as diabetes and chronic pain increasingly demand non-invasive, convenient, and self-adjustable delivery solutions. Regulatory bodies have begun providing clearer pathways, with China's NMPA incorporating such products into its priority review channel for drug-device combinations and the FDA issuing industry guidance on iontophoresis and radiofrequency microporation technologies. Global pharmaceutical giants are actively forming collaborative R&D alliances with device companies, viewing Active Transdermal Drug Delivery platforms as strategic assets to navigate patent cliffs and extend core product lifecycles, positioning them as a critical enabler in the commercialization of large-molecule drugs.

Market Challenges and Risks

The journey from technical feasibility to commercial accessibility is constrained by several hard barriers. As drug-device combination products, these systems face dual regulatory review requirements covering both pharmaceutical and device criteria, and divergent interpretations of the primary mode of action across jurisdictions often lead to prolonged review cycles. Critical components such as micropumps, high-density microneedle arrays, and flexible batteries remain concentrated among a handful of Asian suppliers, making manufacturing timelines vulnerable to geopolitical disruptions. On the reimbursement front, healthcare systems lack mature frameworks for pricing device-plus-consumable combinations, forcing products to endure lengthy market education efforts before gaining inclusion in mainstream formularies.

Downstream Demand Trends

Large pharmaceutical companies are acting as the most active behind-the-scenes purchasers, leveraging licensing deals and acquisitions to secure Active Transdermal Drug Delivery platforms as strategic assets to extend product lifecycles and counter patent expirations, thereby driving up transaction valuations for platform technologies. On the consumer side, demand shows a clear generational divide: younger patients with chronic conditions prefer smart patches that sync with smartphones, valuing the integration of precision dosing with digital health; older adults prioritize operational simplicity and device reliability, showing greater acceptance of single-use, non-rechargeable microneedle systems. Notably, the aesthetics and wellness management sector has emerged as an unexpected demand catalyst, where non-medical transdermal permeation devices have completed large-scale consumer education, indirectly accelerating awareness and adoption of clinical-grade products.

Regional Trends

North America continues to dominate innovation and early commercialization, driven by its dense biopharmaceutical clusters, established expertise in drug-device combination reviews, and strong risk capital appetite. China and the broader Asia-Pacific region are transitioning from manufacturing hubs to integrated innovation centers, leveraging robust consumer electronics supply chains, rapid manufacturing iteration capabilities, and a large chronic disease population to build unique engineering strengths in miniaturization, cost efficiency, and wearability. Europe emphasizes real-world evidence and health technology assessment, where stringent reimbursement requirements compel companies to integrate efficacy and cost-effectiveness considerations from the earliest stages of clinical trial design, positioning the region as a proving ground for both clinical and economic value.

This report studies the global Active Transdermal Drug Delivery Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Active Transdermal Drug Delivery Device 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 Active Transdermal Drug Delivery Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Active Transdermal Drug Delivery Device total production and demand, 2021-2032, (Units)

Global Active Transdermal Drug Delivery Device total production value, 2021-2032, (USD Million)

Global Active Transdermal Drug Delivery Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Active Transdermal Drug Delivery Device consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Active Transdermal Drug Delivery Device domestic production, consumption, key domestic manufacturers and share

Global Active Transdermal Drug Delivery Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Active Transdermal Drug Delivery Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Active Transdermal Drug Delivery Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Active Transdermal Drug Delivery Device 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 IontoPatch, 4P Therapeutics, NanoPass Technologies, Kindeva Drug Delivery, Vaxxas, Zosano Pharma, ActivaTek, Nitto Denko, AdminMed, Medicsen, 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 Active Transdermal Drug Delivery Device market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (USD/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 Active Transdermal Drug Delivery Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Active Transdermal Drug Delivery Device Market, Segmentation by Type:

Iontophoresis Device

Sonophoresis Device

Electroporation Device

Radiofrequency Microporation Device

Hollow Microneedle Device

Global Active Transdermal Drug Delivery Device Market, Segmentation by Delivery Mode:

Continuous Delivery Device

Demand Delivery Device

Programmable Delivery Device

Global Active Transdermal Drug Delivery Device Market, Segmentation by Portability:

Wearable Device

Handheld Device

Desktop Device

Global Active Transdermal Drug Delivery Device Market, Segmentation by Reusability:

Disposable Device

Reusable Device

Global Active Transdermal Drug Delivery Device Market, Segmentation by Application:

Disease Treatment

Vaccination

Aesthetics and Cosmetics

Companies Profiled:

IontoPatch

4P Therapeutics

NanoPass Technologies

Kindeva Drug Delivery

Vaxxas

Zosano Pharma

ActivaTek

Nitto Denko

AdminMed

Medicsen

Key Questions Answered:

1. How big is the global Active Transdermal Drug Delivery Device market?
2. What is the demand of the global Active Transdermal Drug Delivery Device market?

3. What is the year over year growth of the global Active Transdermal Drug Delivery Device market?
4. What is the production and production value of the global Active Transdermal Drug Delivery Device market?
5. Who are the key producers in the global Active Transdermal Drug Delivery Device market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Active Transdermal Drug Delivery Device Introduction
- 1.2 World Active Transdermal Drug Delivery Device Supply & Forecast
 - 1.2.1 World Active Transdermal Drug Delivery Device Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Active Transdermal Drug Delivery Device Production (2021-2032)
 - 1.2.3 World Active Transdermal Drug Delivery Device Pricing Trends (2021-2032)
- 1.3 World Active Transdermal Drug Delivery Device Production by Region (Based on Production Site)
 - 1.3.1 World Active Transdermal Drug Delivery Device Production Value by Region (2021-2032)
 - 1.3.2 World Active Transdermal Drug Delivery Device Production by Region (2021-2032)
 - 1.3.3 World Active Transdermal Drug Delivery Device Average Price by Region (2021-2032)
 - 1.3.4 North America Active Transdermal Drug Delivery Device Production (2021-2032)
 - 1.3.5 Europe Active Transdermal Drug Delivery Device Production (2021-2032)
 - 1.3.6 Asia Active Transdermal Drug Delivery Device Production (2021-2032)
 - 1.3.7 Latin America Active Transdermal Drug Delivery Device Production (2021-2032)
 - 1.3.8 Middle East Active Transdermal Drug Delivery Device Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Active Transdermal Drug Delivery Device Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Active Transdermal Drug Delivery Device Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Active Transdermal Drug Delivery Device Demand (2021-2032)
- 2.2 World Active Transdermal Drug Delivery Device Consumption by Region
 - 2.2.1 World Active Transdermal Drug Delivery Device Consumption by Region (2021-2026)
 - 2.2.2 World Active Transdermal Drug Delivery Device Consumption Forecast by Region (2027-2032)
- 2.3 United States Active Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.4 China Active Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.5 Europe Active Transdermal Drug Delivery Device Consumption (2021-2032)

- 2.6 Japan Active Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.7 South Korea Active Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.8 ASEAN Active Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.9 India Active Transdermal Drug Delivery Device Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Active Transdermal Drug Delivery Device Production Value by Manufacturer (2021-2026)
- 3.2 World Active Transdermal Drug Delivery Device Production by Manufacturer (2021-2026)
- 3.3 World Active Transdermal Drug Delivery Device Average Price by Manufacturer (2021-2026)
- 3.4 Active Transdermal Drug Delivery Device Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Active Transdermal Drug Delivery Device Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Active Transdermal Drug Delivery Device in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Active Transdermal Drug Delivery Device in 2025
- 3.6 Active Transdermal Drug Delivery Device Market: Overall Company Footprint Analysis
 - 3.6.1 Active Transdermal Drug Delivery Device Market: Region Footprint
 - 3.6.2 Active Transdermal Drug Delivery Device Market: Company Product Type Footprint
 - 3.6.3 Active Transdermal Drug Delivery Device 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: Active Transdermal Drug Delivery Device Production Value Comparison

4.1.1 United States VS China: Active Transdermal Drug Delivery Device Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Active Transdermal Drug Delivery Device Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Active Transdermal Drug Delivery Device Production Comparison

4.2.1 United States VS China: Active Transdermal Drug Delivery Device Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Active Transdermal Drug Delivery Device Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Active Transdermal Drug Delivery Device Consumption Comparison

4.3.1 United States VS China: Active Transdermal Drug Delivery Device Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Active Transdermal Drug Delivery Device Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Active Transdermal Drug Delivery Device Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Active Transdermal Drug Delivery Device Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Active Transdermal Drug Delivery Device Production Value (2021-2026)

4.4.3 United States Based Manufacturers Active Transdermal Drug Delivery Device Production (2021-2026)

4.5 China Based Active Transdermal Drug Delivery Device Manufacturers and Market Share

4.5.1 China Based Active Transdermal Drug Delivery Device Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Active Transdermal Drug Delivery Device Production Value (2021-2026)

4.5.3 China Based Manufacturers Active Transdermal Drug Delivery Device Production (2021-2026)

4.6 Rest of World Based Active Transdermal Drug Delivery Device Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Active Transdermal Drug Delivery Device Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Active Transdermal Drug Delivery Device Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Active Transdermal Drug Delivery Device

Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Active Transdermal Drug Delivery Device Market Size Overview by Type:
2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Iontophoresis Device

5.2.2 Sonophoresis Device

5.2.3 Electroporation Device

5.2.4 Radiofrequency Microporation Device

5.2.5 Hollow Microneedle Device

5.3 Market Segment by Type

5.3.1 World Active Transdermal Drug Delivery Device Production by Type (2021-2032)

5.3.2 World Active Transdermal Drug Delivery Device Production Value by Type
(2021-2032)

5.3.3 World Active Transdermal Drug Delivery Device Average Price by Type
(2021-2032)

6 MARKET ANALYSIS BY DELIVERY MODE

6.1 World Active Transdermal Drug Delivery Device Market Size Overview by Delivery
Mode: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Delivery Mode

6.2.1 Continuous Delivery Device

6.2.2 Demand Delivery Device

6.2.3 Programmable Delivery Device

6.3 Market Segment by Delivery Mode

6.3.1 World Active Transdermal Drug Delivery Device Production by Delivery Mode
(2021-2032)

6.3.2 World Active Transdermal Drug Delivery Device Production Value by Delivery
Mode (2021-2032)

6.3.3 World Active Transdermal Drug Delivery Device Average Price by Delivery Mode
(2021-2032)

7 MARKET ANALYSIS BY PORTABILITY

7.1 World Active Transdermal Drug Delivery Device Market Size Overview by
Portability: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Portability

7.2.1 Wearable Device

7.2.2 Handheld Device

7.2.3 Desktop Device

7.3 Market Segment by Portability

7.3.1 World Active Transdermal Drug Delivery Device Production by Portability (2021-2032)

7.3.2 World Active Transdermal Drug Delivery Device Production Value by Portability (2021-2032)

7.3.3 World Active Transdermal Drug Delivery Device Average Price by Portability (2021-2032)

8 MARKET ANALYSIS BY REUSABILITY

8.1 World Active Transdermal Drug Delivery Device Market Size Overview by Reusability: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Reusability

8.2.1 Disposable Device

8.2.2 Reusable Device

8.3 Market Segment by Reusability

8.3.1 World Active Transdermal Drug Delivery Device Production by Reusability (2021-2032)

8.3.2 World Active Transdermal Drug Delivery Device Production Value by Reusability (2021-2032)

8.3.3 World Active Transdermal Drug Delivery Device Average Price by Reusability (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Active Transdermal Drug Delivery Device Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Disease Treatment

9.2.2 Vaccination

9.2.3 Aesthetics and Cosmetics

9.3 Market Segment by Application

9.3.1 World Active Transdermal Drug Delivery Device Production by Application (2021-2032)

9.3.2 World Active Transdermal Drug Delivery Device Production Value by Application

(2021-2032)

9.3.3 World Active Transdermal Drug Delivery Device Average Price by Application
(2021-2032)

10 COMPANY PROFILES

10.1 IontoPatch

10.1.1 IontoPatch Details

10.1.2 IontoPatch Major Business

10.1.3 IontoPatch Active Transdermal Drug Delivery Device Product and Services

10.1.4 IontoPatch Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 IontoPatch Recent Developments/Updates

10.1.6 IontoPatch Competitive Strengths & Weaknesses

10.2 4P Therapeutics

10.2.1 4P Therapeutics Details

10.2.2 4P Therapeutics Major Business

10.2.3 4P Therapeutics Active Transdermal Drug Delivery Device Product and Services

10.2.4 4P Therapeutics Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 4P Therapeutics Recent Developments/Updates

10.2.6 4P Therapeutics Competitive Strengths & Weaknesses

10.3 NanoPass Technologies

10.3.1 NanoPass Technologies Details

10.3.2 NanoPass Technologies Major Business

10.3.3 NanoPass Technologies Active Transdermal Drug Delivery Device Product and Services

10.3.4 NanoPass Technologies Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 NanoPass Technologies Recent Developments/Updates

10.3.6 NanoPass Technologies Competitive Strengths & Weaknesses

10.4 Kindeva Drug Delivery

10.4.1 Kindeva Drug Delivery Details

10.4.2 Kindeva Drug Delivery Major Business

10.4.3 Kindeva Drug Delivery Active Transdermal Drug Delivery Device Product and Services

10.4.4 Kindeva Drug Delivery Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 Kindeva Drug Delivery Recent Developments/Updates

10.4.6 Kindeva Drug Delivery Competitive Strengths & Weaknesses

10.5 Vaxxas

10.5.1 Vaxxas Details

10.5.2 Vaxxas Major Business

10.5.3 Vaxxas Active Transdermal Drug Delivery Device Product and Services

10.5.4 Vaxxas Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.5.5 Vaxxas Recent Developments/Updates

10.5.6 Vaxxas Competitive Strengths & Weaknesses

10.6 Zosano Pharma

10.6.1 Zosano Pharma Details

10.6.2 Zosano Pharma Major Business

10.6.3 Zosano Pharma Active Transdermal Drug Delivery Device Product and Services

10.6.4 Zosano Pharma Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.6.5 Zosano Pharma Recent Developments/Updates

10.6.6 Zosano Pharma Competitive Strengths & Weaknesses

10.7 ActivaTek

10.7.1 ActivaTek Details

10.7.2 ActivaTek Major Business

10.7.3 ActivaTek Active Transdermal Drug Delivery Device Product and Services

10.7.4 ActivaTek Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.7.5 ActivaTek Recent Developments/Updates

10.7.6 ActivaTek Competitive Strengths & Weaknesses

10.8 Nitto Denko

10.8.1 Nitto Denko Details

10.8.2 Nitto Denko Major Business

10.8.3 Nitto Denko Active Transdermal Drug Delivery Device Product and Services

10.8.4 Nitto Denko Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.8.5 Nitto Denko Recent Developments/Updates

10.8.6 Nitto Denko Competitive Strengths & Weaknesses

10.9 AdminMed

10.9.1 AdminMed Details

10.9.2 AdminMed Major Business

10.9.3 AdminMed Active Transdermal Drug Delivery Device Product and Services

10.9.4 AdminMed Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.9.5 AdminMed Recent Developments/Updates
- 10.9.6 AdminMed Competitive Strengths & Weaknesses
- 10.10 Medicsen
 - 10.10.1 Medicsen Details
 - 10.10.2 Medicsen Major Business
 - 10.10.3 Medicsen Active Transdermal Drug Delivery Device Product and Services
 - 10.10.4 Medicsen Active Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.10.5 Medicsen Recent Developments/Updates
 - 10.10.6 Medicsen Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Active Transdermal Drug Delivery Device Industry Chain
- 11.2 Active Transdermal Drug Delivery Device Upstream Analysis
 - 11.2.1 Active Transdermal Drug Delivery Device Core Raw Materials
 - 11.2.2 Main Manufacturers of Active Transdermal Drug Delivery Device Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Active Transdermal Drug Delivery Device Production Mode
- 11.6 Active Transdermal Drug Delivery Device Procurement Model
- 11.7 Active Transdermal Drug Delivery Device Industry Sales Model and Sales Channels
 - 11.7.1 Active Transdermal Drug Delivery Device Sales Model
 - 11.7.2 Active Transdermal Drug Delivery Device Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Active Transdermal Drug Delivery Device Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Active Transdermal Drug Delivery Device Production Value by Region (2021-2026) & (USD Million)

Table 3. World Active Transdermal Drug Delivery Device Production Value by Region (2027-2032) & (USD Million)

Table 4. World Active Transdermal Drug Delivery Device Production Value Market Share by Region (2021-2026)

Table 5. World Active Transdermal Drug Delivery Device Production Value Market Share by Region (2027-2032)

Table 6. World Active Transdermal Drug Delivery Device Production by Region (2021-2026) & (Units)

Table 7. World Active Transdermal Drug Delivery Device Production by Region (2027-2032) & (Units)

Table 8. World Active Transdermal Drug Delivery Device Production Market Share by Region (2021-2026)

Table 9. World Active Transdermal Drug Delivery Device Production Market Share by Region (2027-2032)

Table 10. World Active Transdermal Drug Delivery Device Average Price by Region (2021-2026) & (USD/Unit)

Table 11. World Active Transdermal Drug Delivery Device Average Price by Region (2027-2032) & (USD/Unit)

Table 12. Active Transdermal Drug Delivery Device Major Market Trends

Table 13. World Active Transdermal Drug Delivery Device Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Active Transdermal Drug Delivery Device Consumption by Region (2021-2026) & (Units)

Table 15. World Active Transdermal Drug Delivery Device Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Active Transdermal Drug Delivery Device Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Active Transdermal Drug Delivery Device Producers in 2025

Table 18. World Active Transdermal Drug Delivery Device Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Active Transdermal Drug Delivery Device Producers in 2025

Table 20. World Active Transdermal Drug Delivery Device Average Price by Manufacturer (2021-2026) & (USD/Unit)

Table 21. Global Active Transdermal Drug Delivery Device Company Evaluation Quadrant

Table 22. World Active Transdermal Drug Delivery Device Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Active Transdermal Drug Delivery Device Production Site of Key Manufacturer

Table 24. Active Transdermal Drug Delivery Device Market: Company Product Type Footprint

Table 25. Active Transdermal Drug Delivery Device Market: Company Product Application Footprint

Table 26. Active Transdermal Drug Delivery Device Competitive Factors

Table 27. Active Transdermal Drug Delivery Device New Entrant and Capacity Expansion Plans

Table 28. Active Transdermal Drug Delivery Device Mergers & Acquisitions Activity

Table 29. United States VS China Active Transdermal Drug Delivery Device Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Active Transdermal Drug Delivery Device Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Active Transdermal Drug Delivery Device Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Active Transdermal Drug Delivery Device Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Active Transdermal Drug Delivery Device Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Active Transdermal Drug Delivery Device Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Active Transdermal Drug Delivery Device Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Active Transdermal Drug Delivery Device Production Market Share (2021-2026)

Table 37. China Based Active Transdermal Drug Delivery Device Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Active Transdermal Drug Delivery Device Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Active Transdermal Drug Delivery Device

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Active Transdermal Drug Delivery Device Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Active Transdermal Drug Delivery Device Production Market Share (2021-2026)

Table 42. Rest of World Based Active Transdermal Drug Delivery Device Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Active Transdermal Drug Delivery Device Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Active Transdermal Drug Delivery Device Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Active Transdermal Drug Delivery Device Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Active Transdermal Drug Delivery Device Production Market Share (2021-2026)

Table 47. World Active Transdermal Drug Delivery Device Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Active Transdermal Drug Delivery Device Production by Type (2021-2026) & (Units)

Table 49. World Active Transdermal Drug Delivery Device Production by Type (2027-2032) & (Units)

Table 50. World Active Transdermal Drug Delivery Device Production Value by Type (2021-2026) & (USD Million)

Table 51. World Active Transdermal Drug Delivery Device Production Value by Type (2027-2032) & (USD Million)

Table 52. World Active Transdermal Drug Delivery Device Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World Active Transdermal Drug Delivery Device Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World Active Transdermal Drug Delivery Device Production Value by Delivery Mode, (USD Million), 2021 & 2025 & 2032

Table 55. World Active Transdermal Drug Delivery Device Production by Delivery Mode (2021-2026) & (Units)

Table 56. World Active Transdermal Drug Delivery Device Production by Delivery Mode (2027-2032) & (Units)

Table 57. World Active Transdermal Drug Delivery Device Production Value by Delivery Mode (2021-2026) & (USD Million)

Table 58. World Active Transdermal Drug Delivery Device Production Value by Delivery Mode (2027-2032) & (USD Million)

Table 59. World Active Transdermal Drug Delivery Device Average Price by Delivery Mode (2021-2026) & (USD/Unit)

Table 60. World Active Transdermal Drug Delivery Device Average Price by Delivery Mode (2027-2032) & (USD/Unit)

Table 61. World Active Transdermal Drug Delivery Device Production Value by Portability, (USD Million), 2021 & 2025 & 2032

Table 62. World Active Transdermal Drug Delivery Device Production by Portability (2021-2026) & (Units)

Table 63. World Active Transdermal Drug Delivery Device Production by Portability (2027-2032) & (Units)

Table 64. World Active Transdermal Drug Delivery Device Production Value by Portability (2021-2026) & (USD Million)

Table 65. World Active Transdermal Drug Delivery Device Production Value by Portability (2027-2032) & (USD Million)

Table 66. World Active Transdermal Drug Delivery Device Average Price by Portability (2021-2026) & (USD/Unit)

Table 67. World Active Transdermal Drug Delivery Device Average Price by Portability (2027-2032) & (USD/Unit)

Table 68. World Active Transdermal Drug Delivery Device Production Value by Reusability, (USD Million), 2021 & 2025 & 2032

Table 69. World Active Transdermal Drug Delivery Device Production by Reusability (2021-2026) & (Units)

Table 70. World Active Transdermal Drug Delivery Device Production by Reusability (2027-2032) & (Units)

Table 71. World Active Transdermal Drug Delivery Device Production Value by Reusability (2021-2026) & (USD Million)

Table 72. World Active Transdermal Drug Delivery Device Production Value by Reusability (2027-2032) & (USD Million)

Table 73. World Active Transdermal Drug Delivery Device Average Price by Reusability (2021-2026) & (USD/Unit)

Table 74. World Active Transdermal Drug Delivery Device Average Price by Reusability (2027-2032) & (USD/Unit)

Table 75. World Active Transdermal Drug Delivery Device Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Active Transdermal Drug Delivery Device Production by Application (2021-2026) & (Units)

Table 77. World Active Transdermal Drug Delivery Device Production by Application (2027-2032) & (Units)

Table 78. World Active Transdermal Drug Delivery Device Production Value by

Application (2021-2026) & (USD Million)

Table 79. World Active Transdermal Drug Delivery Device Production Value by Application (2027-2032) & (USD Million)

Table 80. World Active Transdermal Drug Delivery Device Average Price by Application (2021-2026) & (USD/Unit)

Table 81. World Active Transdermal Drug Delivery Device Average Price by Application (2027-2032) & (USD/Unit)

Table 82. IontoPatch Basic Information, Manufacturing Base and Competitors

Table 83. IontoPatch Major Business

Table 84. IontoPatch Active Transdermal Drug Delivery Device Product and Services

Table 85. IontoPatch Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. IontoPatch Recent Developments/Updates

Table 87. IontoPatch Competitive Strengths & Weaknesses

Table 88. 4P Therapeutics Basic Information, Manufacturing Base and Competitors

Table 89. 4P Therapeutics Major Business

Table 90. 4P Therapeutics Active Transdermal Drug Delivery Device Product and Services

Table 91. 4P Therapeutics Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. 4P Therapeutics Recent Developments/Updates

Table 93. 4P Therapeutics Competitive Strengths & Weaknesses

Table 94. NanoPass Technologies Basic Information, Manufacturing Base and Competitors

Table 95. NanoPass Technologies Major Business

Table 96. NanoPass Technologies Active Transdermal Drug Delivery Device Product and Services

Table 97. NanoPass Technologies Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. NanoPass Technologies Recent Developments/Updates

Table 99. NanoPass Technologies Competitive Strengths & Weaknesses

Table 100. Kindeva Drug Delivery Basic Information, Manufacturing Base and Competitors

Table 101. Kindeva Drug Delivery Major Business

Table 102. Kindeva Drug Delivery Active Transdermal Drug Delivery Device Product and Services

Table 103. Kindeva Drug Delivery Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Kindeva Drug Delivery Recent Developments/Updates

Table 105. Kindeva Drug Delivery Competitive Strengths & Weaknesses

Table 106. Vaxxas Basic Information, Manufacturing Base and Competitors

Table 107. Vaxxas Major Business

Table 108. Vaxxas Active Transdermal Drug Delivery Device Product and Services

Table 109. Vaxxas Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Vaxxas Recent Developments/Updates

Table 111. Vaxxas Competitive Strengths & Weaknesses

Table 112. Zosano Pharma Basic Information, Manufacturing Base and Competitors

Table 113. Zosano Pharma Major Business

Table 114. Zosano Pharma Active Transdermal Drug Delivery Device Product and Services

Table 115. Zosano Pharma Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Zosano Pharma Recent Developments/Updates

Table 117. Zosano Pharma Competitive Strengths & Weaknesses

Table 118. ActivaTek Basic Information, Manufacturing Base and Competitors

Table 119. ActivaTek Major Business

Table 120. ActivaTek Active Transdermal Drug Delivery Device Product and Services

Table 121. ActivaTek Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. ActivaTek Recent Developments/Updates

Table 123. ActivaTek Competitive Strengths & Weaknesses

Table 124. Nitto Denko Basic Information, Manufacturing Base and Competitors

Table 125. Nitto Denko Major Business

Table 126. Nitto Denko Active Transdermal Drug Delivery Device Product and Services

Table 127. Nitto Denko Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Nitto Denko Recent Developments/Updates

Table 129. Nitto Denko Competitive Strengths & Weaknesses

Table 130. AdminMed Basic Information, Manufacturing Base and Competitors

Table 131. AdminMed Major Business

Table 132. AdminMed Active Transdermal Drug Delivery Device Product and Services

Table 133. AdminMed Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. AdminMed Recent Developments/Updates

Table 135. AdminMed Competitive Strengths & Weaknesses

Table 136. Medicsen Basic Information, Manufacturing Base and Competitors

Table 137. Medicsen Major Business

Table 138. Medicsen Active Transdermal Drug Delivery Device Product and Services

Table 139. Medicsen Active Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. Medicsen Recent Developments/Updates

Table 141. Medicsen Competitive Strengths & Weaknesses

Table 142. Global Key Players of Active Transdermal Drug Delivery Device Upstream (Raw Materials)

Table 143. Global Active Transdermal Drug Delivery Device Typical Customers

Table 144. Active Transdermal Drug Delivery Device Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Active Transdermal Drug Delivery Device Picture

Figure 2. World Active Transdermal Drug Delivery Device Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Active Transdermal Drug Delivery Device Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Active Transdermal Drug Delivery Device Production (2021-2032) & (Units)

Figure 5. World Active Transdermal Drug Delivery Device Average Price (2021-2032) & (USD/Unit)

Figure 6. World Active Transdermal Drug Delivery Device Production Value Market Share by Region (2021-2032)

Figure 7. World Active Transdermal Drug Delivery Device Production Market Share by Region (2021-2032)

Figure 8. North America Active Transdermal Drug Delivery Device Production (2021-2032) & (Units)

Figure 9. Europe Active Transdermal Drug Delivery Device Production (2021-2032) & (Units)

Figure 10. Asia Active Transdermal Drug Delivery Device Production (2021-2032) & (Units)

Figure 11. Latin America Active Transdermal Drug Delivery Device Production (2021-2032) & (Units)

Figure 12. Middle East Active Transdermal Drug Delivery Device Production (2021-2032) & (Units)

Figure 13. Active Transdermal Drug Delivery Device Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Active Transdermal Drug Delivery Device Consumption (2021-2032) & (Units)

Figure 16. World Active Transdermal Drug Delivery Device Consumption Market Share by Region (2021-2032)

Figure 17. United States Active Transdermal Drug Delivery Device Consumption (2021-2032) & (Units)

Figure 18. China Active Transdermal Drug Delivery Device Consumption (2021-2032) & (Units)

Figure 19. Europe Active Transdermal Drug Delivery Device Consumption (2021-2032) & (Units)

Figure 20. Japan Active Transdermal Drug Delivery Device Consumption (2021-2032) & (Units)

Figure 21. South Korea Active Transdermal Drug Delivery Device Consumption (2021-2032) & (Units)

Figure 22. ASEAN Active Transdermal Drug Delivery Device Consumption (2021-2032) & (Units)

Figure 23. India Active Transdermal Drug Delivery Device Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Active Transdermal Drug Delivery Device by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Active Transdermal Drug Delivery Device Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Active Transdermal Drug Delivery Device Markets in 2025

Figure 27. United States VS China: Active Transdermal Drug Delivery Device Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Active Transdermal Drug Delivery Device Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Active Transdermal Drug Delivery Device Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Active Transdermal Drug Delivery Device Production Market Share 2025

Figure 31. China Based Manufacturers Active Transdermal Drug Delivery Device Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Active Transdermal Drug Delivery Device Production Market Share 2025

Figure 33. World Active Transdermal Drug Delivery Device Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Active Transdermal Drug Delivery Device Production Value Market Share by Type in 2025

Figure 35. Iontophoresis Device

Figure 36. Sonophoresis Device

Figure 37. Electroporation Device

Figure 38. Radiofrequency Microporation Device

Figure 39. Hollow Microneedle Device

Figure 40. World Active Transdermal Drug Delivery Device Production Market Share by Type (2021-2032)

Figure 41. World Active Transdermal Drug Delivery Device Production Value Market Share by Type (2021-2032)

Figure 42. World Active Transdermal Drug Delivery Device Average Price by Type (2021-2032) & (USD/Unit)

Figure 43. World Active Transdermal Drug Delivery Device Production Value by Delivery Mode, (USD Million), 2021 & 2025 & 2032

Figure 44. World Active Transdermal Drug Delivery Device Production Value Market Share by Delivery Mode in 2025

Figure 45. Continuous Delivery Device

Figure 46. Demand Delivery Device

Figure 47. Programmable Delivery Device

Figure 48. World Active Transdermal Drug Delivery Device Production Market Share by Delivery Mode (2021-2032)

Figure 49. World Active Transdermal Drug Delivery Device Production Value Market Share by Delivery Mode (2021-2032)

Figure 50. World Active Transdermal Drug Delivery Device Average Price by Delivery Mode (2021-2032) & (USD/Unit)

Figure 51. World Active Transdermal Drug Delivery Device Production Value by Portability, (USD Million), 2021 & 2025 & 2032

Figure 52. World Active Transdermal Drug Delivery Device Production Value Market Share by Portability in 2025

Figure 53. Wearable Device

Figure 54. Handheld Device

Figure 55. Desktop Device

Figure 56. World Active Transdermal Drug Delivery Device Production Market Share by Portability (2021-2032)

Figure 57. World Active Transdermal Drug Delivery Device Production Value Market Share by Portability (2021-2032)

Figure 58. World Active Transdermal Drug Delivery Device Average Price by Portability (2021-2032) & (USD/Unit)

Figure 59. World Active Transdermal Drug Delivery Device Production Value by Reusability, (USD Million), 2021 & 2025 & 2032

Figure 60. World Active Transdermal Drug Delivery Device Production Value Market Share by Reusability in 2025

Figure 61. Disposable Device

Figure 62. Reusable Device

Figure 63. World Active Transdermal Drug Delivery Device Production Market Share by Reusability (2021-2032)

Figure 64. World Active Transdermal Drug Delivery Device Production Value Market Share by Reusability (2021-2032)

Figure 65. World Active Transdermal Drug Delivery Device Average Price by

Reusability (2021-2032) & (USD/Unit)

Figure 66. World Active Transdermal Drug Delivery Device Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 67. World Active Transdermal Drug Delivery Device Production Value Market Share by Application in 2025

Figure 68. Disease Treatment

Figure 69. Vaccination

Figure 70. Aesthetics and Cosmetics

Figure 71. World Active Transdermal Drug Delivery Device Production Market Share by Application (2021-2032)

Figure 72. World Active Transdermal Drug Delivery Device Production Value Market Share by Application (2021-2032)

Figure 73. World Active Transdermal Drug Delivery Device Average Price by Application (2021-2032) & (USD/Unit)

Figure 74. Active Transdermal Drug Delivery Device Industry Chain

Figure 75. Active Transdermal Drug Delivery Device Procurement Model

Figure 76. Active Transdermal Drug Delivery Device Sales Model

Figure 77. Active Transdermal Drug Delivery Device Sales Channels, Direct Sales, and Distribution

Figure 78. Methodology

Figure 79. Research Process and Data Source

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