

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

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Abstracts

The global Passive Transdermal Drug Delivery Device market size is expected to reach \$ 7287 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

A passive transdermal drug delivery device refers to a category of drug delivery instruments that rely solely on the drug's own diffusion characteristics to penetrate the skin barrier and enter the body to exert therapeutic effects. Its technical essence lies in utilizing the concentration gradient as the driving force, allowing drug molecules to naturally diffuse from high-concentration areas to low-concentration areas without the need for any external energy. From a product morphology perspective, the transdermal patch is the most typical representative of passive transdermal drug delivery devices, typically consisting of a backing layer, drug reservoir, adhesive layer, rate-controlling membrane, and release liner, achieving controlled drug dosage by adjusting the application duration. According to a 2011 technical article in *Electronic Technology Application*, external patches are the most commonly used passive drug delivery method, safely and comfortably delivering a certain dose of medication to patients over a defined period, with the drug entering the bloodstream through skin absorption. Nicotine patches are the classic example of such devices, with other common applications including motion sickness treatment, hormone replacement therapy, and contraception. Additionally, gels, plasters, microemulsions, and flexible liposomes (such as transfersomes) also fall within the category of passive transdermal drug delivery. A 2024 review in *Molecular Pharmaceutics* noted that transdermal drug delivery systems (TDDS) have become an important technology platform in the field of drug delivery due to their non-invasive nature, patient convenience, and ability to bypass first-pass metabolism associated with oral administration. Currently, passive transdermal drug delivery devices are expanding from traditional small-molecule drug delivery toward the

delivery of biologics such as peptides and proteins, with their industrial value continuing to grow alongside the increasing demand for chronic disease management.

Market Development Opportunities and Key Drivers

A 2025 study published in the *Journal of Nanobiotechnology* proposed a two-stage transdermal drug delivery system based on sonophase-change transfersomes (SPCTs), combining passive penetration with ultrasound-triggered active permeation. Kindeva noted in January 2026 that skin delivery is gaining increasing attention, with patients and healthcare systems seeking needle-free, home-based drug delivery options. A 2024 review in *Molecular Pharmaceutics* systematically analyzed the development and failure modes of transdermal drug delivery systems, providing the industry with strategies for risk mitigation. The long-term treatment needs of chronic disease management are driving expanded insurance coverage for transdermal drug delivery devices.

Market Challenges and Risks

Skin impedance is complex and variable, influenced by factors such as age, ethnicity, and body weight, making precise control of drug absorption rates difficult. Currently, only small-molecule lipophilic drugs with molecular weights below 500 Da can penetrate the skin barrier at acceptable rates. While novel carriers such as transfersomes and microemulsions can enhance the transdermal penetration of macromolecular drugs, their industrial-scale manufacturing processes, batch consistency, and long-term stability still require validation. The adhesive system itself can also be a source of failure, as certain adhesives may not be suitable for all skin types and their properties can be affected by sweating, bathing, or swimming.

Downstream Demand Trends

Transdermal patches for drugs such as fentanyl and buprenorphine have become a long-term treatment option for moderate to severe pain. Transdermal drug delivery systems have been applied to a range of drugs including nicotine, fentanyl, nitroglycerin, and clonidine, with ongoing exploration of their potential for biologic delivery. Nitroglycerin patches are used for angina prophylaxis, clonidine patches for hypertension treatment, and rivastigmine patches for Alzheimer's disease, offering an alternative route for patients with dysphagia. Contraceptive patches and hormone replacement patches are well-established products, while transdermal patches containing active ingredients such as caffeine and vitamins are entering the market as functional consumer goods.

Regional Trends

North America, leveraging its mature innovation ecosystem and rapid regulatory pathways, continues to lead source innovation in transdermal drug delivery technology, with CDMOs such as Kindeva providing end-to-end services from formulation development to large-scale manufacturing. Europe maintains its advantage in basic research and clinical evidence accumulation, with Germany's LTS Lohmann Therapie-Systeme AG holding over 20 marketed products and more than 50 projects in development. In the Asia-Pacific region, China is emerging as the most dynamic growth market. Domestic companies such as MicroCore have achieved mass production of microneedle patches, with an annual capacity in the tens of millions of units; Jiangsu Kangbeide Pharmaceutical possesses three platform technologies for transdermal formulations and has passed GMP inspections. Universities such as East China University of Science and Technology continue to generate innovations in novel carriers such as transfersomes and flexible liposomes.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Passive 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 Hisamitsu, LTS Lohmann Therapie-Systeme, Teikoku, Nitto Denko, MedPharm, NexGel, Kindeva Drug Delivery, Noven, Teikoku Seiyaku, Ildong Pharmaceutical, 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 Passive 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 Passive Transdermal Drug Delivery Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Patch Drug Delivery

Cream Drug Delivery

Plaster Drug Delivery

Microneedle Drug Delivery

Liposome Drug Delivery

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

Small Molecule Drugs

Protein Drugs

Nucleic Acid Drugs

Global Passive Transdermal Drug Delivery Device Market, Segmentation by Interaction Mechanism:

Diffusion Only Drug Delivery

Penetration Enhancer Assisted Drug Delivery

Carrier Mediated Drug Delivery

Global Passive Transdermal Drug Delivery Device Market, Segmentation by Drug Release Rate:

Immediate Release Drug Delivery

Sustained Release Drug Delivery

Controlled Release Drug Delivery

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

Neurological Disorders Treatment

Cardiovascular Diseases Treatment

Hormone Replacement Therapy

Companies Profiled:

Hisamitsu

LTS Lohmann Therapie-Systeme

Teikoku

Nitto Denko

MedPharm

NexGel

Kindeva Drug Delivery

Noven

Teikoku Seiyaku

Ildong Pharmaceutical

PassPort Technologies

Hayao Group

Lingrui Pharmaceutical

CAS Microneedle

Luye

Tide Pharmaceutical

Jiudian Pharmaceutical

LianSN Pharm

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

- 2.4 China Passive Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.5 Europe Passive Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.6 Japan Passive Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.7 South Korea Passive Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.8 ASEAN Passive Transdermal Drug Delivery Device Consumption (2021-2032)
- 2.9 India Passive Transdermal Drug Delivery Device Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4.6.2 Rest of World Based Manufacturers Passive Transdermal Drug Delivery Device

Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Passive Transdermal Drug Delivery Device Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

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

5.2 Segment Introduction by Type

5.2.1 Patch Drug Delivery

5.2.2 Cream Drug Delivery

5.2.3 Plaster Drug Delivery

5.2.4 Microneedle Drug Delivery

5.2.5 Liposome Drug Delivery

5.3 Market Segment by Type

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

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

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

6 MARKET ANALYSIS BY DRUG TYPE

6.1 World Passive Transdermal Drug Delivery Device Market Size Overview by Drug Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Drug Type

6.2.1 Small Molecule Drugs

6.2.2 Protein Drugs

6.2.3 Nucleic Acid Drugs

6.3 Market Segment by Drug Type

6.3.1 World Passive Transdermal Drug Delivery Device Production by Drug Type (2021-2032)

6.3.2 World Passive Transdermal Drug Delivery Device Production Value by Drug Type (2021-2032)

6.3.3 World Passive Transdermal Drug Delivery Device Average Price by Drug Type (2021-2032)

7 MARKET ANALYSIS BY INTERACTION MECHANISM

7.1 World Passive Transdermal Drug Delivery Device Market Size Overview by Interaction Mechanism: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Interaction Mechanism

7.2.1 Diffusion Only Drug Delivery

7.2.2 Penetration Enhancer Assisted Drug Delivery

7.2.3 Carrier Mediated Drug Delivery

7.3 Market Segment by Interaction Mechanism

7.3.1 World Passive Transdermal Drug Delivery Device Production by Interaction Mechanism (2021-2032)

7.3.2 World Passive Transdermal Drug Delivery Device Production Value by Interaction Mechanism (2021-2032)

7.3.3 World Passive Transdermal Drug Delivery Device Average Price by Interaction Mechanism (2021-2032)

8 MARKET ANALYSIS BY DRUG RELEASE RATE

8.1 World Passive Transdermal Drug Delivery Device Market Size Overview by Drug Release Rate: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Drug Release Rate

8.2.1 Immediate Release Drug Delivery

8.2.2 Sustained Release Drug Delivery

8.2.3 Controlled Release Drug Delivery

8.3 Market Segment by Drug Release Rate

8.3.1 World Passive Transdermal Drug Delivery Device Production by Drug Release Rate (2021-2032)

8.3.2 World Passive Transdermal Drug Delivery Device Production Value by Drug Release Rate (2021-2032)

8.3.3 World Passive Transdermal Drug Delivery Device Average Price by Drug Release Rate (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

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

9.2 Segment Introduction by Application

9.2.1 Neurological Disorders Treatment

9.2.2 Cardiovascular Diseases Treatment

9.2.3 Hormone Replacement Therapy

9.3 Market Segment by Application

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

9.3.2 World Passive Transdermal Drug Delivery Device Production Value by Application (2021-2032)

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

10 COMPANY PROFILES

10.1 Hisamitsu

10.1.1 Hisamitsu Details

10.1.2 Hisamitsu Major Business

10.1.3 Hisamitsu Passive Transdermal Drug Delivery Device Product and Services

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

10.1.5 Hisamitsu Recent Developments/Updates

10.1.6 Hisamitsu Competitive Strengths & Weaknesses

10.2 LTS Lohmann Therapie-Systeme

10.2.1 LTS Lohmann Therapie-Systeme Details

10.2.2 LTS Lohmann Therapie-Systeme Major Business

10.2.3 LTS Lohmann Therapie-Systeme Passive Transdermal Drug Delivery Device Product and Services

10.2.4 LTS Lohmann Therapie-Systeme Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 LTS Lohmann Therapie-Systeme Recent Developments/Updates

10.2.6 LTS Lohmann Therapie-Systeme Competitive Strengths & Weaknesses

10.3 Teikoku

10.3.1 Teikoku Details

10.3.2 Teikoku Major Business

10.3.3 Teikoku Passive Transdermal Drug Delivery Device Product and Services

10.3.4 Teikoku Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Teikoku Recent Developments/Updates

10.3.6 Teikoku Competitive Strengths & Weaknesses

10.4 Nitto Denko

10.4.1 Nitto Denko Details

10.4.2 Nitto Denko Major Business

10.4.3 Nitto Denko Passive Transdermal Drug Delivery Device Product and Services

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

10.4.5 Nitto Denko Recent Developments/Updates

10.4.6 Nitto Denko Competitive Strengths & Weaknesses

10.5 MedPharm

10.5.1 MedPharm Details

10.5.2 MedPharm Major Business

10.5.3 MedPharm Passive Transdermal Drug Delivery Device Product and Services

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

10.5.5 MedPharm Recent Developments/Updates

10.5.6 MedPharm Competitive Strengths & Weaknesses

10.6 NexGel

10.6.1 NexGel Details

10.6.2 NexGel Major Business

10.6.3 NexGel Passive Transdermal Drug Delivery Device Product and Services

10.6.4 NexGel Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.6.5 NexGel Recent Developments/Updates

10.6.6 NexGel Competitive Strengths & Weaknesses

10.7 Kindeva Drug Delivery

10.7.1 Kindeva Drug Delivery Details

10.7.2 Kindeva Drug Delivery Major Business

10.7.3 Kindeva Drug Delivery Passive Transdermal Drug Delivery Device Product and Services

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

10.7.5 Kindeva Drug Delivery Recent Developments/Updates

10.7.6 Kindeva Drug Delivery Competitive Strengths & Weaknesses

10.8 Noven

10.8.1 Noven Details

10.8.2 Noven Major Business

10.8.3 Noven Passive Transdermal Drug Delivery Device Product and Services

10.8.4 Noven Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.8.5 Noven Recent Developments/Updates

10.8.6 Noven Competitive Strengths & Weaknesses

10.9 Teikoku Seiyaku

10.9.1 Teikoku Seiyaku Details

- 10.9.2 Teikoku Seiyaku Major Business
- 10.9.3 Teikoku Seiyaku Passive Transdermal Drug Delivery Device Product and Services
- 10.9.4 Teikoku Seiyaku Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.9.5 Teikoku Seiyaku Recent Developments/Updates
- 10.9.6 Teikoku Seiyaku Competitive Strengths & Weaknesses
- 10.10 Ildong Pharmaceutical
 - 10.10.1 Ildong Pharmaceutical Details
 - 10.10.2 Ildong Pharmaceutical Major Business
 - 10.10.3 Ildong Pharmaceutical Passive Transdermal Drug Delivery Device Product and Services
 - 10.10.4 Ildong Pharmaceutical Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.10.5 Ildong Pharmaceutical Recent Developments/Updates
 - 10.10.6 Ildong Pharmaceutical Competitive Strengths & Weaknesses
- 10.11 PassPort Technologies
 - 10.11.1 PassPort Technologies Details
 - 10.11.2 PassPort Technologies Major Business
 - 10.11.3 PassPort Technologies Passive Transdermal Drug Delivery Device Product and Services
 - 10.11.4 PassPort Technologies Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.11.5 PassPort Technologies Recent Developments/Updates
 - 10.11.6 PassPort Technologies Competitive Strengths & Weaknesses
- 10.12 Hayao Group
 - 10.12.1 Hayao Group Details
 - 10.12.2 Hayao Group Major Business
 - 10.12.3 Hayao Group Passive Transdermal Drug Delivery Device Product and Services
 - 10.12.4 Hayao Group Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.12.5 Hayao Group Recent Developments/Updates
 - 10.12.6 Hayao Group Competitive Strengths & Weaknesses
- 10.13 Lingrui Pharmaceutical
 - 10.13.1 Lingrui Pharmaceutical Details
 - 10.13.2 Lingrui Pharmaceutical Major Business
 - 10.13.3 Lingrui Pharmaceutical Passive Transdermal Drug Delivery Device Product and Services

- 10.13.4 Lingrui Pharmaceutical Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.13.5 Lingrui Pharmaceutical Recent Developments/Updates
- 10.13.6 Lingrui Pharmaceutical Competitive Strengths & Weaknesses
- 10.14 CAS Microneedle
 - 10.14.1 CAS Microneedle Details
 - 10.14.2 CAS Microneedle Major Business
 - 10.14.3 CAS Microneedle Passive Transdermal Drug Delivery Device Product and Services
 - 10.14.4 CAS Microneedle Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.14.5 CAS Microneedle Recent Developments/Updates
 - 10.14.6 CAS Microneedle Competitive Strengths & Weaknesses
- 10.15 Luye
 - 10.15.1 Luye Details
 - 10.15.2 Luye Major Business
 - 10.15.3 Luye Passive Transdermal Drug Delivery Device Product and Services
 - 10.15.4 Luye Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.15.5 Luye Recent Developments/Updates
 - 10.15.6 Luye Competitive Strengths & Weaknesses
- 10.16 Tide Pharmaceutical
 - 10.16.1 Tide Pharmaceutical Details
 - 10.16.2 Tide Pharmaceutical Major Business
 - 10.16.3 Tide Pharmaceutical Passive Transdermal Drug Delivery Device Product and Services
 - 10.16.4 Tide Pharmaceutical Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.16.5 Tide Pharmaceutical Recent Developments/Updates
 - 10.16.6 Tide Pharmaceutical Competitive Strengths & Weaknesses
- 10.17 Jiudian Pharmaceutical
 - 10.17.1 Jiudian Pharmaceutical Details
 - 10.17.2 Jiudian Pharmaceutical Major Business
 - 10.17.3 Jiudian Pharmaceutical Passive Transdermal Drug Delivery Device Product and Services
 - 10.17.4 Jiudian Pharmaceutical Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.17.5 Jiudian Pharmaceutical Recent Developments/Updates
 - 10.17.6 Jiudian Pharmaceutical Competitive Strengths & Weaknesses

10.18 LianSN Pharm

10.18.1 LianSN Pharm Details

10.18.2 LianSN Pharm Major Business

10.18.3 LianSN Pharm Passive Transdermal Drug Delivery Device Product and Services

10.18.4 LianSN Pharm Passive Transdermal Drug Delivery Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.18.5 LianSN Pharm Recent Developments/Updates

10.18.6 LianSN Pharm Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Passive Transdermal Drug Delivery Device Industry Chain

11.2 Passive Transdermal Drug Delivery Device Upstream Analysis

11.2.1 Passive Transdermal Drug Delivery Device Core Raw Materials

11.2.2 Main Manufacturers of Passive Transdermal Drug Delivery Device Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Passive Transdermal Drug Delivery Device Production Mode

11.6 Passive Transdermal Drug Delivery Device Procurement Model

11.7 Passive Transdermal Drug Delivery Device Industry Sales Model and Sales Channels

11.7.1 Passive Transdermal Drug Delivery Device Sales Model

11.7.2 Passive 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 Passive Transdermal Drug Delivery Device Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

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

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

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

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

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

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

Table 12. Passive Transdermal Drug Delivery Device Major Market Trends

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 26. Passive Transdermal Drug Delivery Device Competitive Factors

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

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

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

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

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

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

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

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

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

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

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

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

Table 39. China Based Manufacturers Passive Transdermal Drug Delivery Device

Production Value Market Share (2021-2026)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 62. World Passive Transdermal Drug Delivery Device Production by Interaction Mechanism (2021-2026) & (Units)

Table 63. World Passive Transdermal Drug Delivery Device Production by Interaction Mechanism (2027-2032) & (Units)

Table 64. World Passive Transdermal Drug Delivery Device Production Value by Interaction Mechanism (2021-2026) & (USD Million)

Table 65. World Passive Transdermal Drug Delivery Device Production Value by Interaction Mechanism (2027-2032) & (USD Million)

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

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

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

Table 69. World Passive Transdermal Drug Delivery Device Production by Drug Release Rate (2021-2026) & (Units)

Table 70. World Passive Transdermal Drug Delivery Device Production by Drug Release Rate (2027-2032) & (Units)

Table 71. World Passive Transdermal Drug Delivery Device Production Value by Drug Release Rate (2021-2026) & (USD Million)

Table 72. World Passive Transdermal Drug Delivery Device Production Value by Drug Release Rate (2027-2032) & (USD Million)

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

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

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

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

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

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

Application (2021-2026) & (USD Million)

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

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

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

Table 82. Hisamitsu Basic Information, Manufacturing Base and Competitors

Table 83. Hisamitsu Major Business

Table 84. Hisamitsu Passive Transdermal Drug Delivery Device Product and Services

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

Table 86. Hisamitsu Recent Developments/Updates

Table 87. Hisamitsu Competitive Strengths & Weaknesses

Table 88. LTS Lohmann Therapie-Systeme Basic Information, Manufacturing Base and Competitors

Table 89. LTS Lohmann Therapie-Systeme Major Business

Table 90. LTS Lohmann Therapie-Systeme Passive Transdermal Drug Delivery Device Product and Services

Table 91. LTS Lohmann Therapie-Systeme Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. LTS Lohmann Therapie-Systeme Recent Developments/Updates

Table 93. LTS Lohmann Therapie-Systeme Competitive Strengths & Weaknesses

Table 94. Teikoku Basic Information, Manufacturing Base and Competitors

Table 95. Teikoku Major Business

Table 96. Teikoku Passive Transdermal Drug Delivery Device Product and Services

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

Table 98. Teikoku Recent Developments/Updates

Table 99. Teikoku Competitive Strengths & Weaknesses

Table 100. Nitto Denko Basic Information, Manufacturing Base and Competitors

Table 101. Nitto Denko Major Business

Table 102. Nitto Denko Passive Transdermal Drug Delivery Device Product and Services

Table 103. Nitto Denko Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 104. Nitto Denko Recent Developments/Updates

Table 105. Nitto Denko Competitive Strengths & Weaknesses

Table 106. MedPharm Basic Information, Manufacturing Base and Competitors

Table 107. MedPharm Major Business

Table 108. MedPharm Passive Transdermal Drug Delivery Device Product and Services

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

Table 110. MedPharm Recent Developments/Updates

Table 111. MedPharm Competitive Strengths & Weaknesses

Table 112. NexGel Basic Information, Manufacturing Base and Competitors

Table 113. NexGel Major Business

Table 114. NexGel Passive Transdermal Drug Delivery Device Product and Services

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

Table 116. NexGel Recent Developments/Updates

Table 117. NexGel Competitive Strengths & Weaknesses

Table 118. Kindeva Drug Delivery Basic Information, Manufacturing Base and Competitors

Table 119. Kindeva Drug Delivery Major Business

Table 120. Kindeva Drug Delivery Passive Transdermal Drug Delivery Device Product and Services

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

Table 122. Kindeva Drug Delivery Recent Developments/Updates

Table 123. Kindeva Drug Delivery Competitive Strengths & Weaknesses

Table 124. Noven Basic Information, Manufacturing Base and Competitors

Table 125. Noven Major Business

Table 126. Noven Passive Transdermal Drug Delivery Device Product and Services

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

Table 128. Noven Recent Developments/Updates

Table 129. Noven Competitive Strengths & Weaknesses

Table 130. Teikoku Seiyaku Basic Information, Manufacturing Base and Competitors

Table 131. Teikoku Seiyaku Major Business

Table 132. Teikoku Seiyaku Passive Transdermal Drug Delivery Device Product and Services

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

Table 134. Teikoku Seiyaku Recent Developments/Updates

Table 135. Teikoku Seiyaku Competitive Strengths & Weaknesses

Table 136. Ildong Pharmaceutical Basic Information, Manufacturing Base and Competitors

Table 137. Ildong Pharmaceutical Major Business

Table 138. Ildong Pharmaceutical Passive Transdermal Drug Delivery Device Product and Services

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

Table 140. Ildong Pharmaceutical Recent Developments/Updates

Table 141. Ildong Pharmaceutical Competitive Strengths & Weaknesses

Table 142. PassPort Technologies Basic Information, Manufacturing Base and Competitors

Table 143. PassPort Technologies Major Business

Table 144. PassPort Technologies Passive Transdermal Drug Delivery Device Product and Services

Table 145. PassPort Technologies Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. PassPort Technologies Recent Developments/Updates

Table 147. PassPort Technologies Competitive Strengths & Weaknesses

Table 148. Hayao Group Basic Information, Manufacturing Base and Competitors

Table 149. Hayao Group Major Business

Table 150. Hayao Group Passive Transdermal Drug Delivery Device Product and Services

Table 151. Hayao Group Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Hayao Group Recent Developments/Updates

Table 153. Hayao Group Competitive Strengths & Weaknesses

Table 154. Lingrui Pharmaceutical Basic Information, Manufacturing Base and Competitors

Table 155. Lingrui Pharmaceutical Major Business

Table 156. Lingrui Pharmaceutical Passive Transdermal Drug Delivery Device Product and Services

Table 157. Lingrui Pharmaceutical Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. Lingrui Pharmaceutical Recent Developments/Updates

Table 159. Lingrui Pharmaceutical Competitive Strengths & Weaknesses

Table 160. CAS Microneedle Basic Information, Manufacturing Base and Competitors

Table 161. CAS Microneedle Major Business

Table 162. CAS Microneedle Passive Transdermal Drug Delivery Device Product and Services

Table 163. CAS Microneedle Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. CAS Microneedle Recent Developments/Updates

Table 165. CAS Microneedle Competitive Strengths & Weaknesses

Table 166. Luye Basic Information, Manufacturing Base and Competitors

Table 167. Luye Major Business

Table 168. Luye Passive Transdermal Drug Delivery Device Product and Services

Table 169. Luye Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 170. Luye Recent Developments/Updates

Table 171. Luye Competitive Strengths & Weaknesses

Table 172. Tide Pharmaceutical Basic Information, Manufacturing Base and Competitors

Table 173. Tide Pharmaceutical Major Business

Table 174. Tide Pharmaceutical Passive Transdermal Drug Delivery Device Product and Services

Table 175. Tide Pharmaceutical Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 176. Tide Pharmaceutical Recent Developments/Updates

Table 177. Tide Pharmaceutical Competitive Strengths & Weaknesses

Table 178. Jiudian Pharmaceutical Basic Information, Manufacturing Base and Competitors

Table 179. Jiudian Pharmaceutical Major Business

Table 180. Jiudian Pharmaceutical Passive Transdermal Drug Delivery Device Product

and Services

Table 181. Jiudian Pharmaceutical Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 182. Jiudian Pharmaceutical Recent Developments/Updates

Table 183. Jiudian Pharmaceutical Competitive Strengths & Weaknesses

Table 184. LianSN Pharm Basic Information, Manufacturing Base and Competitors

Table 185. LianSN Pharm Major Business

Table 186. LianSN Pharm Passive Transdermal Drug Delivery Device Product and Services

Table 187. LianSN Pharm Passive Transdermal Drug Delivery Device Production (Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 188. LianSN Pharm Recent Developments/Updates

Table 189. LianSN Pharm Competitive Strengths & Weaknesses

Table 190. Global Key Players of Passive Transdermal Drug Delivery Device Upstream (Raw Materials)

Table 191. Global Passive Transdermal Drug Delivery Device Typical Customers

Table 192. Passive Transdermal Drug Delivery Device Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Passive Transdermal Drug Delivery Device Picture

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

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

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

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

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

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

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

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

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

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

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

Figure 13. Passive Transdermal Drug Delivery Device Market Drivers

Figure 14. Factors Affecting Demand

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 35. Patch Drug Delivery

Figure 36. Cream Drug Delivery

Figure 37. Plaster Drug Delivery

Figure 38. Microneedle Drug Delivery

Figure 39. Liposome Drug Delivery

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

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

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

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

Figure 44. World Passive Transdermal Drug Delivery Device Production Value Market Share by Drug Type in 2025

Figure 45. Small Molecule Drugs

Figure 46. Protein Drugs

Figure 47. Nucleic Acid Drugs

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

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

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

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

Figure 52. World Passive Transdermal Drug Delivery Device Production Value Market Share by Interaction Mechanism in 2025

Figure 53. Diffusion Only Drug Delivery

Figure 54. Penetration Enhancer Assisted Drug Delivery

Figure 55. Carrier Mediated Drug Delivery

Figure 56. World Passive Transdermal Drug Delivery Device Production Market Share by Interaction Mechanism (2021-2032)

Figure 57. World Passive Transdermal Drug Delivery Device Production Value Market Share by Interaction Mechanism (2021-2032)

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

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

Figure 60. World Passive Transdermal Drug Delivery Device Production Value Market Share by Drug Release Rate in 2025

Figure 61. Immediate Release Drug Delivery

Figure 62. Sustained Release Drug Delivery

Figure 63. Controlled Release Drug Delivery

Figure 64. World Passive Transdermal Drug Delivery Device Production Market Share by Drug Release Rate (2021-2032)

Figure 65. World Passive Transdermal Drug Delivery Device Production Value Market Share by Drug Release Rate (2021-2032)

Figure 66. World Passive Transdermal Drug Delivery Device Average Price by Drug Release Rate (2021-2032) & (USD/Unit)

Figure 67. World Passive Transdermal Drug Delivery Device Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 68. World Passive Transdermal Drug Delivery Device Production Value Market Share by Application in 2025

Figure 69. Neurological Disorders Treatment

Figure 70. Cardiovascular Diseases Treatment

Figure 71. Hormone Replacement Therapy

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

Figure 73. World Passive Transdermal Drug Delivery Device Production Value Market Share by Application (2021-2032)

Figure 74. World Passive Transdermal Drug Delivery Device Average Price by Application (2021-2032) & (USD/Unit)

Figure 75. Passive Transdermal Drug Delivery Device Industry Chain

Figure 76. Passive Transdermal Drug Delivery Device Procurement Model

Figure 77. Passive Transdermal Drug Delivery Device Sales Model

Figure 78. Passive Transdermal Drug Delivery Device Sales Channels, Direct Sales, and Distribution

Figure 79. Methodology

Figure 80. Research Process and Data Source

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