

# **Needle-Free Drug Delivery Market Size, Trends, Analysis, and Outlook By Product (Prefilled Needle-Free Injection Systems, Fillable Needle-Free Injection Systems), By Technology (Inhaler, Novel Needle-Free, Jet Injector, Transdermal Patch), By Application (Insulin Delivery, Vaccination, Pediatric Injections, Pain Management), By Injection Method (Powder injections, Liquid injections, Depot or Projectile Injection), By Source of Power (Spring Load Jet Injector Systems, Gas Powdered Jet Injector, Battery Powdered Jet Injector System), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Needle-Free Drug Delivery market size is poised to register 14.02% growth (CAGR) from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Needle-Free Drug Delivery market By Product (Prefilled Needle-Free Injection Systems, Fillable Needle-Free Injection Systems), By Technology (Inhaler, Novel Needle-Free, Jet Injector, Transdermal Patch), By Application (Insulin Delivery, Vaccination, Pediatric Injections, Pain Management), By Injection Method (Powder injections, Liquid injections, Depot or Projectile Injection), By Source of Power (Spring Load Jet Injector Systems, Gas Powdered Jet Injector, Battery Powdered Jet Injector System).

The future of needle-free drug delivery is shaped by advancements in drug formulation,

device technology, and patient-centered care aimed at enhancing medication adherence, reducing needle phobia, and improving therapeutic outcomes across various medical specialties. Key trends include the development of needle-free delivery systems, such as transdermal patches, jet injectors, and microneedle arrays, that offer painless, non-invasive administration routes for vaccines, biologics, and small molecule drugs, thereby improving patient acceptance and compliance with treatment regimens. Additionally, there is a growing emphasis on the customization of drug delivery devices, dose titration algorithms, and patient education programs to address individual preferences, optimize drug absorption kinetics, and minimize adverse effects associated with traditional injection methods. Moreover, advancements in wearable technology, digital health platforms, and telemedicine services enable remote monitoring of medication adherence, real-time feedback on treatment efficacy, and personalized support for patients managing chronic diseases, driving continuous innovation and adoption of needle-free drug delivery solutions in healthcare delivery systems..

## Needle-Free Drug Delivery Market Drivers, Trends, Opportunities, and Growth Opportunities

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

## Key market trends defining the global Needle-Free Drug Delivery demand in 2024 and Beyond

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

## Needle-Free Drug Delivery Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Needle-Free Drug Delivery industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting

companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Needle-Free Drug Delivery companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Needle-Free Drug Delivery industry

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

Needle-Free Drug Delivery Market Study- Strategic Analysis Review

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

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

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

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

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

Needle-Free Drug Delivery Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Needle-Free Drug Delivery industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for

2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

## Needle-Free Drug Delivery Country Analysis and Revenue Outlook to 2030

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

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

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

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

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

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

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Needle-Free Drug Delivery in Asia Pacific. In particular, China, India, and South East Asian Needle-Free Drug Delivery markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

**Latin America Needle-Free Drug Delivery Market Size Outlook- Continued urbanization and rising income levels**

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

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

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

**Needle-Free Drug Delivery Market Company Profiles**

The global Needle-Free Drug Delivery market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are 3M, Akra Dermo-Jet, Antares Pharmed Inc, Becton, Dickinson and Company, CROSSJECT, D'Antonio Consultants International Inc, Endo Pharmaceuticals Inc, Ferring B.V., Inolife Sciences, Inovio Pharmaceuticals Inc, MedImmune, MIT Canada, Mystic Pharmaceuticals, Needle Free Injection System, OptiNose US Inc, Pfizer Inc, PharmaJet, Tianjin Xuying

Technology Development Co. Ltd, Valeritas Inc, Verdict Media Ltd, Zogenix.

## Recent Needle-Free Drug Delivery Market Developments

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

## Needle-Free Drug Delivery Market Report Scope

Parameters: Revenue, Volume Price

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

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

## Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

## Market Segmentation:

By Type

Stationary 3D and 4D Ultrasound Devices

Portable 3D and 4D Ultrasound Devices

By Display

Color Ultrasound

B/W Ultrasound

By Portability

Trolley or Cart-Based Ultrasound Systems

Compact/Handheld Ultrasound Systems

Point-of-Pare (PoC) Ultrasound Systems

By Application

Radiology or General Imaging

Obstetrics or Gynecology

Cardiology

Urology

Vascular

Orthopedic and Musculoskeletal

Pain Management

Others

By End-User

Hospitals

Surgical Centers and Diagnostic Centers

Maternity Centers

Ambulatory Care Centers

Research and Academia

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

3M

Akra Dermo-Jet

Antares Pharmed Inc

Becton, Dickinson and Company

CROSSJECT

D'Antonio Consultants International Inc

Endo Pharmaceuticals Inc



Ferring B.V.

Inolife Sciences

Inovio Pharmaceuticals Inc

MedImmune

MIT Canada

Mystic Pharmaceuticals

Needle Free Injection System

OptiNose US Inc

Pfizer Inc

PharmaJet

Tianjin Xuying Technology Development Co. Ltd

Valeritas Inc

Verdict Media Ltd

Zogenix

Formats Available: Excel, PDF, and PPT

## Contents

### **1. EXECUTIVE SUMMARY**

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

### **2. NEEDLE FREE DRUG DELIVERY MARKET SIZE OUTLOOK TO 2030**

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

### **3. NEEDLE FREE DRUG DELIVERY MARKET- STRATEGIC ANALYSIS REVIEW**

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

### **4. NEEDLE FREE DRUG DELIVERY MARKET SEGMENTATION ANALYSIS AND OUTLOOK**

- 4.1 Market Segmentation and Scope
- 4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
  - By Type
    - Stationary 3D and 4D Ultrasound Devices
    - Portable 3D and 4D Ultrasound Devices

By Display

Color Ultrasound

B/W Ultrasound

By Portability

Trolley or Cart-Based Ultrasound Systems

Compact/Handheld Ultrasound Systems

Point-of-Pare (PoC) Ultrasound Systems

By Application

Radiology or General Imaging

Obstetrics or Gynecology

Cardiology

Urology

Vascular

Orthopedic and Musculoskeletal

Pain Management

Others

By End-User

Hospitals

Surgical Centers and Diagnostic Centers

Maternity Centers

Ambulatory Care Centers

Research and Academia

Others

4.3 Growth Prospects and Niche Opportunities, 2023- 2030

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

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

5.1 Key Findings for Asia Pacific Needle Free Drug Delivery Market, 2025

5.2 Asia Pacific Needle Free Drug Delivery Market Size Outlook by Type, 2021- 2030

5.3 Asia Pacific Needle Free Drug Delivery Market Size Outlook by Application, 2021- 2030

5.4 Key Findings for Europe Needle Free Drug Delivery Market, 2025

5.5 Europe Needle Free Drug Delivery Market Size Outlook by Type, 2021- 2030

5.6 Europe Needle Free Drug Delivery Market Size Outlook by Application, 2021- 2030

5.7 Key Findings for North America Needle Free Drug Delivery Market, 2025

5.8 North America Needle Free Drug Delivery Market Size Outlook by Type, 2021- 2030

5.9 North America Needle Free Drug Delivery Market Size Outlook by Application, 2021- 2030

5.10 Key Findings for South America Needle Free Drug Delivery Market, 2025

5.11 South America Pacific Needle Free Drug Delivery Market Size Outlook by Type, 2021- 2030

5.12 South America Needle Free Drug Delivery Market Size Outlook by Application, 2021- 2030

5.13 Key Findings for Middle East and Africa Needle Free Drug Delivery Market, 2025

5.14 Middle East Africa Needle Free Drug Delivery Market Size Outlook by Type, 2021- 2030

5.15 Middle East Africa Needle Free Drug Delivery Market Size Outlook by Application, 2021- 2030

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

6.1 US Needle Free Drug Delivery Market Size Outlook and Revenue Growth Forecasts

6.2 US Needle Free Drug Delivery Industry Drivers and Opportunities

6.3 Canada Market Size Outlook and Revenue Growth Forecasts

6.4 Canada Needle Free Drug Delivery Industry Drivers and Opportunities

6.6 Mexico Market Size Outlook and Revenue Growth Forecasts

6.6 Mexico Needle Free Drug Delivery Industry Drivers and Opportunities

6.7 Germany Market Size Outlook and Revenue Growth Forecasts

6.8 Germany Needle Free Drug Delivery Industry Drivers and Opportunities

6.9 France Market Size Outlook and Revenue Growth Forecasts

6.10 France Needle Free Drug Delivery Industry Drivers and Opportunities

6.11 UK Market Size Outlook and Revenue Growth Forecasts

6.12 UK Needle Free Drug Delivery Industry Drivers and Opportunities

6.13 Spain Market Size Outlook and Revenue Growth Forecasts

6.14 Spain Needle Free Drug Delivery Industry Drivers and Opportunities

6.16 Italy Market Size Outlook and Revenue Growth Forecasts

6.16 Italy Needle Free Drug Delivery Industry Drivers and Opportunities

6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts

6.18 Rest of Europe Needle Free Drug Delivery Industry Drivers and Opportunities

6.19 China Market Size Outlook and Revenue Growth Forecasts

6.20 China Needle Free Drug Delivery Industry Drivers and Opportunities

6.21 India Market Size Outlook and Revenue Growth Forecasts

6.22 India Needle Free Drug Delivery Industry Drivers and Opportunities

6.23 Japan Market Size Outlook and Revenue Growth Forecasts

6.24 Japan Needle Free Drug Delivery Industry Drivers and Opportunities

6.26 South Korea Market Size Outlook and Revenue Growth Forecasts

6.26 South Korea Needle Free Drug Delivery Industry Drivers and Opportunities

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

## **7. NEEDLE FREE DRUG DELIVERY MARKET OUTLOOK ACROSS SCENARIOS**

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

## **8. NEEDLE FREE DRUG DELIVERY COMPANY PROFILES**

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

### **3M**

Akra Dermo-Jet  
Antares Pharmed Inc  
Becton, Dickinson and Company  
CROSSJECT  
D'Antonio Consultants International Inc  
Endo Pharmaceuticals Inc  
Ferring B.V.

Inolife Sciences  
Inovio Pharmaceuticals Inc  
MedImmune  
MIT Canada  
Mystic Pharmaceuticals  
Needle Free Injection System  
OptiNose US Inc  
Pfizer Inc  
PharmaJet  
Tianjin Xuying Technology Development Co. Ltd  
Valeritas Inc  
Verdict Media Ltd  
Zogenix

## **9. APPENDIX**

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

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