

# **Needle Free Injection System Market Size, Trends, Analysis, and Outlook By Product (Fillable, Prefilled), By Technology (Jet-based, Spring-based, Micro array patch injectors, Others), By Type (Liquid-based, Projectile-based, Powder-based), By Usability (Disposable, Reusable), By Route of Administration (Subcutaneous, Intramuscular, Intradermal), By Application (Vaccine delivery, Insulin delivery, Oncology, Pain management, Dermatology, Others), By End-User (Hospitals, Home care settings, Research laboratories, Pharmaceutical and biotechnological companies, Others), by Country, Segment, and Companies, 2024-2032**

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## **Abstracts**

The global Needle Free Injection System market size is poised to register 16.2% growth from 2024 to 2032, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Needle Free Injection System market across By Product (Fillable, Prefilled), By Technology (Jet-based, Spring-based, Micro array patch injectors, Others), By Type (Liquid-based, Projectile-based, Powder-based), By Usability (Disposable, Reusable), By Route of Administration (Subcutaneous, Intramuscular, Intradermal), By Application (Vaccine delivery, Insulin delivery, Oncology, Pain management, Dermatology, Others), By End-User (Hospitals, Home care settings, Research laboratories, Pharmaceutical and biotechnological companies, Others)

The future of the needle-free injection system market is influenced by advancements in drug delivery technology, increasing demand for painless injection methods, and growing applications in vaccine administration and chronic disease management. Needle-free injection systems deliver medication through the skin using high-pressure jets, spring-powered devices, or electromagnetic mechanisms, eliminating the need for traditional hypodermic needles and syringes. With the rise of patient-centric care and vaccination programs, there is a growing interest in needle-free injection systems for improving patient comfort, reducing needlestick injuries, and enhancing vaccine coverage rates. Further, technological innovations such as microneedle arrays, transdermal patches, and jet injectors are driving the development of next-generation needle-free injection systems with improved dose accuracy, reproducibility, and patient acceptance. Over the forecast period to 2030, expanding applications in diabetes management, insulin delivery, and biologic therapies, coupled with increasing investments in drug delivery research and development, are expected to drive market growth and innovation, enabling healthcare providers to optimize medication delivery and improve patient adherence.

### Needle Free Injection System 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 Injection System market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Needle Free Injection System 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 Injection System industry.

### Key market trends defining the global Needle Free Injection System 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 Injection System Market Segmentation- Industry Share, Market Size, and Outlook to 2032

The Needle Free Injection System 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 Injection System 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 Injection System industry

Leading Needle Free Injection System 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 Injection System companies.

Needle Free Injection System Market Study- Strategic Analysis Review

The Needle Free Injection System 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 Injection System Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Needle Free Injection System 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 2032 in three case scenarios- low case, reference case, and high case scenarios.

## Needle Free Injection System Country Analysis and Revenue Outlook to 2032

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2032. 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 2032.

## North America Needle Free Injection System 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 healthcare infrastructure. Leading companies focus on new product launches in the changing environment. The US healthcare expenditure is expected to grow to \$4.8 trillion in 2024 (around 3.7% growth in 2024), potentially driving demand for various Needle Free Injection System market segments. Similarly, Strong market demand is encouraging Canadian Needle Free Injection System companies to invest in niche segments. Further, as Mexico continues to strengthen its relations and invest in technological advancements, the Mexico Needle Free Injection System market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

## Europe Needle Free Injection System 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 Injection System 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 vendors in identifying and leveraging new growth prospects positions the European Needle Free Injection System 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 Injection System 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 Injection System in Asia Pacific. In particular, China, India, and South East Asian Needle Free Injection System markets present a compelling outlook for 2032, acting as a magnet for both domestic and multinational vendors 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 countries in the APAC region.

**Latin America Needle Free Injection System 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 Injection System 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 Injection System market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Needle Free Injection System.

**Needle Free Injection System Market Company Profiles**

The global Needle Free Injection System 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 Antares Pharma Inc, Bioject Medical Technologies Inc, Crossject SA, Injex Pharma GmbH, Medical International Technology Inc, National Medical Products Inc, Nugen Medical Devices Inc, Pharmajet Inc, Portal Instruments Inc, Zealand Pharma A/S.

## Recent Needle Free Injection System Market Developments

The global Needle Free Injection System 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 Injection System Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2032 (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 Product

Fillable needle-free injectors

Prefilled needle-free injectors

By Technology

Jet-based needle-free injectors

Spring-based needle-free injectors

Micro array patch injectors

Others

By Type

Liquid-based needle-free injectors

Projectile/depot-based needle-free injectors

Powder-based needle-free injectors

By Usability

Disposable needle-free injectors

Reusable needle-free injectors

By Site of delivery

Subcutaneous injectors

Intramuscular injectors

Intradermal injectors

By Application

Vaccine delivery

Insulin delivery

Oncology

Pain management

Dermatology

Others

By End-User

Hospitals

Home care settings

Research laboratories

Pharmaceutical and biotechnological companies

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)



## Companies

Antares Pharma Inc

Bioject Medical Technologies Inc

Crossject SA

Injex Pharma GmbH

Medical International Technology Inc

National Medical Products Inc

Nugen Medical Devices Inc

Pharmajet Inc

Portal Instruments Inc

Zealand Pharma A/S

Formats Available: Excel, PDF, and PPT

## Contents

### 1. EXECUTIVE SUMMARY

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

### 2. NEEDLE FREE INJECTION SYSTEM MARKET SIZE OUTLOOK TO 2030

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

### 3. NEEDLE FREE INJECTION SYSTEM 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 INJECTION SYSTEM MARKET SEGMENTATION ANALYSIS AND OUTLOOK

- 4.1 Market Segmentation and Scope
- 4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
  - By Product
    - Fillable needle-free injectors
    - Prefilled needle-free injectors

#### By Technology

- Jet-based needle-free injectors
- Spring-based needle-free injectors
- Micro array patch injectors
- Others

#### By Type

- Liquid-based needle-free injectors
- Projectile/depot-based needle-free injectors
- Powder-based needle-free injectors

#### By Usability

- Disposable needle-free injectors
- Reusable needle-free injectors

#### By Site of delivery

- Subcutaneous injectors
- Intramuscular injectors
- Intradermal injectors

#### By Application

- Vaccine delivery
- Insulin delivery
- Oncology
- Pain management
- Dermatology
- Others

#### By End-User

- Hospitals
- Home care settings
- Research laboratories
- Pharmaceutical and biotechnological companies
- 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 Injection System Market, 2025

5.2 Asia Pacific Needle Free Injection System Market Size Outlook by Type, 2021- 2030

5.3 Asia Pacific Needle Free Injection System Market Size Outlook by Application, 2021- 2030

5.4 Key Findings for Europe Needle Free Injection System Market, 2025

- 5.5 Europe Needle Free Injection System Market Size Outlook by Type, 2021- 2030
- 5.6 Europe Needle Free Injection System Market Size Outlook by Application, 2021-2030
- 5.7 Key Findings for North America Needle Free Injection System Market, 2025
- 5.8 North America Needle Free Injection System Market Size Outlook by Type, 2021-2030
- 5.9 North America Needle Free Injection System Market Size Outlook by Application, 2021- 2030
- 5.10 Key Findings for South America Needle Free Injection System Market, 2025
- 5.11 South America Pacific Needle Free Injection System Market Size Outlook by Type, 2021- 2030
- 5.12 South America Needle Free Injection System Market Size Outlook by Application, 2021- 2030
- 5.13 Key Findings for Middle East and Africa Needle Free Injection System Market, 2025
- 5.14 Middle East Africa Needle Free Injection System Market Size Outlook by Type, 2021- 2030
- 5.15 Middle East Africa Needle Free Injection System Market Size Outlook by Application, 2021- 2030

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

- 6.1 US Needle Free Injection System Market Size Outlook and Revenue Growth Forecasts
- 6.2 US Needle Free Injection System Industry Drivers and Opportunities
- 6.3 Canada Market Size Outlook and Revenue Growth Forecasts
- 6.4 Canada Needle Free Injection System Industry Drivers and Opportunities
- 6.6 Mexico Market Size Outlook and Revenue Growth Forecasts
- 6.6 Mexico Needle Free Injection System Industry Drivers and Opportunities
- 6.7 Germany Market Size Outlook and Revenue Growth Forecasts
- 6.8 Germany Needle Free Injection System Industry Drivers and Opportunities
- 6.9 France Market Size Outlook and Revenue Growth Forecasts
- 6.10 France Needle Free Injection System Industry Drivers and Opportunities
- 6.11 UK Market Size Outlook and Revenue Growth Forecasts
- 6.12 UK Needle Free Injection System Industry Drivers and Opportunities
- 6.13 Spain Market Size Outlook and Revenue Growth Forecasts
- 6.14 Spain Needle Free Injection System Industry Drivers and Opportunities
- 6.16 Italy Market Size Outlook and Revenue Growth Forecasts
- 6.16 Italy Needle Free Injection System Industry Drivers and Opportunities

- 6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts
- 6.18 Rest of Europe Needle Free Injection System Industry Drivers and Opportunities
- 6.19 China Market Size Outlook and Revenue Growth Forecasts
- 6.20 China Needle Free Injection System Industry Drivers and Opportunities
- 6.21 India Market Size Outlook and Revenue Growth Forecasts
- 6.22 India Needle Free Injection System Industry Drivers and Opportunities
- 6.23 Japan Market Size Outlook and Revenue Growth Forecasts
- 6.24 Japan Needle Free Injection System Industry Drivers and Opportunities
- 6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
- 6.26 South Korea Needle Free Injection System Industry Drivers and Opportunities
- 6.27 Australia Market Size Outlook and Revenue Growth Forecasts
- 6.28 Australia Needle Free Injection System Industry Drivers and Opportunities
- 6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts
- 6.30 South East Asia Needle Free Injection System 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 Injection System Industry Drivers and Opportunities
- 6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
- 6.34 Brazil Needle Free Injection System Industry Drivers and Opportunities
- 6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
- 6.36 Argentina Needle Free Injection System 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 Injection System Industry Drivers and Opportunities
- 6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
- 6.40 Middle East Needle Free Injection System Industry Drivers and Opportunities
- 6.41 Africa Market Size Outlook and Revenue Growth Forecasts
- 6.42 Africa Needle Free Injection System Industry Drivers and Opportunities

## **7. NEEDLE FREE INJECTION SYSTEM MARKET OUTLOOK ACROSS SCENARIOS**

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

## **8. NEEDLE FREE INJECTION SYSTEM COMPANY PROFILES**

- 8.1 Profiles of Leading Needle Free Injection System Companies in the Market
- 8.2 Business Descriptions, SWOT Analysis, and Growth Strategies

### 8.3 Financial Performance and Key Metrics

Antares Pharma Inc

Bioject Medical Technologies Inc

Crossject SA

Injex Pharma GmbH

Medical International Technology Inc

National Medical Products Inc

Nugen Medical Devices Inc

Pharmajet Inc

Portal Instruments Inc

Zealand Pharma A/S.

## 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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