

## Global Powder-based, Needle-free Injection System Market Report 2018-2029

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## **Abstracts**

The Powder-based, Needle-free Injection System industry provides a revolutionary alternative to traditional needle injections. These systems deliver medication or vaccines through the use of compressed gas or mechanical force, propelling a fine stream of powdered medication into the skin without the need for needles. The Powder-based, Needle-free Injection System offers numerous advantages, including reduced pain and anxiety, improved safety, and increased convenience.

#### Definition and Use:

Powder-based, Needle-free Injection Systems employ powdered medication or vaccines that are propelled into the skin using various technologies. The powder is finely dispersed and injected at high velocity, penetrating the skin's surface and delivering the medication directly into the underlying tissue. These systems find applications in diverse medical procedures such as cardiovascular surgeries, general surgeries, gynecological surgeries, orthopedic surgeries, ophthalmic surgeries, and others.

#### Industry Status:

The global Powder-based, Needle-free Injection System market is projected to reach a market size of US\$134 million in 2022, with a compound annual growth rate of 16.3%. Several factors contribute to the current state of the industry.

Advantages over Traditional Injections: Powder-based, Needle-free Injection Systems offer numerous advantages compared to traditional needle injections. These include reduced pain, improved patient comfort, elimination of needle phobia, minimized risk of needlestick injuries, and decreased cross-contamination risks.

Growing Demand for Minimally Invasive Procedures: Minimally invasive procedures



have gained popularity due to their benefits, such as shorter recovery times, reduced scarring, and lower healthcare costs. Powder-based, Needle-free Injection Systems align with this trend by eliminating the use of needles, offering a less invasive and more patient-friendly method of drug delivery.

Technological Advancements: Ongoing advancements in Powder-based, Needle-free Injection System technology have resulted in more precise and efficient systems. Improved delivery mechanisms, enhanced dosage accuracy, and increased ease of use contribute to the industry's growth and acceptance.

#### Prospects and Opportunities:

The Powder-based, Needle-free Injection System industry demonstrates promising prospects for future expansion and development.

Increasing Adoption in Healthcare Facilities: The advantages offered by Powder-based, Needle-free Injection Systems are driving their adoption in diverse healthcare settings. Hospitals, clinics, and other medical facilities are recognizing the benefits of these systems, leading to increased usage across various medical procedures.

Expansion into New Application Areas: While the current major applications of Powderbased, Needle-free Injection Systems lie in surgeries, there is potential for expansion into new application areas. Research and development efforts are exploring the use of these systems in areas such as diabetes management, vaccination programs, and selfadministration of medications.

Technological Innovations: Continued research and development endeavors aim to further enhance the performance and capabilities of Powder-based, Needle-free Injection Systems. Advancements include improved dose accuracy, reduced variability, integration with digital platforms for tracking and monitoring injections, and the development of personalized medicine delivery systems.

Market Penetration in Emerging Economies: As healthcare infrastructure continues to improve in emerging economies, the demand for innovative medical technologies also increases. The Powder-based, Needle-free Injection System industry can tap into these markets by offering cost-effective solutions and collaborating with local healthcare providers.

#### Conclusion:

The Powder-based, Needle-free Injection System industry is poised for significant



growth, driven by its advantages over traditional needle injections, increasing demand for minimally invasive procedures, and technological advancements. With a projected market size of US\$134 million in 2022 and a compound annual growth rate of 16.3%, the industry offers substantial opportunities for expansion.

Major global manufacturers, including ANTARES PHARMA, INC., ENDO INTERNATIONAL PLC, PHARMAJET, INC., INOVIO PHARMACEUTICALS, INC., MEDICAL INTERNATIONAL TECHNOLOGY, INC., NATIONAL MEDICAL PRODUCTS, INC., VALERITAS, INC., EUROPEAN PHARMA GROUP, and PENJECT CORPORATION, play a significant role in driving innovation, research, and market growth within the Powder-based, Needle-free Injection System industry.

By capitalizing on the advantages of Powder-based, Needle-free Injection Systems, exploring new applications, focusing on technological advancements, and targeting emerging markets, the industry can continue to thrive, improve patient experiences, and revolutionize drug delivery methods globally.

The SWOT analysis of the Powder-based, Needle-free Injection System industry is as follows:

#### Strengths:

Innovative and Advanced Technology: Powder-based, Needle-free Injection Systems offer a technologically advanced alternative to traditional needle injections, providing a range of benefits such as reduced pain, improved patient comfort, and enhanced safety. Growing Demand for Minimally Invasive Procedures: The industry capitalizes on the increasing demand for minimally invasive surgeries and procedures, aligning with the preferences of both healthcare providers and patients.

Advantages over Traditional Injections: Powder-based, Needle-free Injection Systems eliminate the need for needles, reducing the risk of needlestick injuries, cross-contamination, and needle phobia. This advantage enhances the overall safety and convenience of drug delivery.

Expansion into Various Medical Specialties: The versatility of Powder-based, Needlefree Injection Systems allows for their use in a wide range of medical specialties, including cardiovascular surgeries, general surgeries, gynecological surgeries, orthopedic surgeries, ophthalmic surgeries, and more.

#### Weaknesses:

Initial High Costs: The initial cost of adopting Powder-based, Needle-free Injection Systems can be higher compared to traditional injection methods. This may limit the



adoption rate among healthcare facilities, particularly those with limited budgets. Limited Awareness and Acceptance: Despite the advantages they offer, Powder-based, Needle-free Injection Systems may face challenges in terms of creating awareness and gaining acceptance among healthcare professionals and patients who are accustomed to traditional injection methods.

#### **Opportunities:**

Increasing Market Penetration in Emerging Economies: As emerging economies continue to improve their healthcare infrastructure, there is an opportunity for the Powder-based, Needle-free Injection System industry to expand its market presence by offering affordable options and collaborating with local healthcare providers. Research and Development: Ongoing research and development efforts can lead to further advancements in Powder-based, Needle-free Injection System technology, improving accuracy, efficacy, and usability. This presents opportunities for manufacturers to introduce new and improved products to the market.

#### Threats:

Stringent Regulatory Requirements: The Powder-based, Needle-free Injection System industry is subject to regulations and standards imposed by regulatory bodies. Compliance with these requirements can pose challenges for manufacturers, leading to potential delays in product development and market entry.

Competition from Traditional Injection Methods: Though Powder-based, Needle-free Injection Systems offer various advantages, traditional injection methods still dominate the market. The industry needs to compete with long-established practices and convince healthcare providers of the value and benefits of adopting these new technologies.

Potential Safety Concerns: While Powder-based, Needle-free Injection Systems are generally safe, there may be concerns related to device malfunctions, user errors, or adverse reactions to powdered medications. These safety issues could impact the industry's reputation and adoption rate if not addressed effectively.

Key players in global Powder-based, Needle-free Injection System market include: ANTARES PHARMA, INC. ENDO INTERNATIONAL PLC PHARMAJET, INC. INOVIO PHARMACEUTICALS, INC. MEDICAL INTERNATIONAL TECHNOLOGY, INC. MEDICAL INTERNATIONAL TECHNOLOGY, INC. NATIONAL MEDICAL PRODUCTS, INC.



VALERITAS, INC. EUROPEAN PHARMA GROUP PENJECT CORPORATION

Market segmentation, by product types: Jet Spring Laser Vibration

Market segmentation, by applications: Cardiovascular Surgeries General Surgeries Gynecological Surgeries Orthopedic Surgeries Ophthalmic Surgeries Other



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+44 20 8123 2220 info@marketpublishers.com

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