

Syringes Market Report by Product (General Syringes, Specialized Syringes, and Others), Material (Glass Syringes, Polymer Syringes), Usage (Disposable Syringes, Reusable Syringes), Distribution Channel (Offline, Online), End User (Hospitals and Clinics, Diagnostic Centers, Speciality Centers, and Others), and Region 2024-2032

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Report description:

The global syringes market size reached US\$ 19.6 Billion in 2023. Looking forward, the market is expected to reach US\$ 37.4 Billion by 2032, exhibiting a growth rate (CAGR) of 7.29% during 2024-2032. Favorable policies by government bodies for encouraging the fast and safe vaccination of individuals are among the factors fueling the market.

Syringes Market Analysis:

Major Market Drivers: The rising prevalence of chronic diseases is primarily bolstering the market. Moreover, the growing preference for single-use syringes to deliver anesthetics, owing to the increasing number of individuals who are undergoing surgical interventions, is also acting as another significant growth-inducing factor.

Key Market Trends: The inflating focus of key players on efficient sterilizing surgery while avoiding infections among healthcare practitioners and patients is one of the emerging trends augmenting the market. Apart from this, the widespread popularity of disposable medical supplies is further positively influencing the market.

Competitive Landscape: Some of the prominent companies in the global market include B. Braun Melsungen AG, Baxter International Inc., Becton Dickinson and Company, Cardinal Health Inc., Gerresheimer AG, Hindustan Syringes & Medical Devices Ltd., Nipro Corporation, Pfizer Inc., Retractable Technologies Inc., Schott AG, Smiths Group plc, Terumo Corporation, and Thomas Scientific LLC, among many others.

Geographical Trends: North America exhibits a clear dominance in the market, owing to the introduction of numerous initiatives by government bodies for safety and infection control. Furthermore, advanced manufacturing processes will continue to fuel the regional market over the forecasted period.

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Challenges and Opportunities: One of the key factors hindering the market is the risk associated with needlestick injuries. However, the launch of comprehensive training programs for healthcare professionals to ensure proper usage and disposal practices is expected to catalyze the global market in the coming years.

Syringes Market Trends:

Demand for Advanced Syringes

The introduction of novel advancements for enhancing the safety and functionality of syringes is positively influencing the syringes market outlook. For example, in March 2024, Hindustan Syringes and Medical Devices (HMD), one of the leading manufacturers of auto-disable and disposable syringes, introduced Dispojekt, an indigenous single-use safety syringe to minimize instances of needle stick injuries. Besides this, in May 2024, Gerresheimer, a healthcare and pharmaceutical packaging company based in Germany, announced the expansion of its Queretaro facility in Mexico to increase the production capacities for ready-to-fill (RTF) syringes, thereby catering to the market demand in North America. Additionally, the shifting preference towards home-based healthcare, along with the elevating popularity of biologics, is also propelling the market. For instance, in March 2024, SCHOTT Pharma, one of the pharmaceutical drug containment solutions and delivery systems providers, built its first U.S. facility in Wilson to manufacture pre-fillable polymer syringes required to meet the need for deep-cold storage and transportation of mRNA medications. The site can further produce glass pre-fillable syringes for GLP-1 therapies, such as those that treat diabetes or obesity.

Prevalence of Chronic Diseases

The growing incidences of chronic diseases, including cancer, diabetes, cardiovascular disorders, etc., are escalating the need for regular and precise medication delivery via syringes. The report published by the European Monitoring Centre for Drugs and Drug Addiction (EMCDDA) and the European Centre for Disease Prevention and Control (ECDC) in November 2023 assessed the effectiveness of interventions, including needle and syringe programs (NSPs), to prevent infections among individuals. Moreover, the widespread usage of insulin syringes for the daily management of diabetes is also bolstering the market. For instance, in November 2023, Terumo India launched an insulin syringe, a sterile delivery device for patients requiring regular insulin injections. It is the addition to the Life Care Solutions division of Terumo Medical Care Solutions. In line with this, specifically designed to have a 3-bevel super sharp needle with a high-grade silicone surface, the syringe is gentle and more comfortable for patients. Its unique feature with plunger retention technology avoids wastage and spillage. Furthermore, the American Diabetes Association estimated that millions of individuals in the U.S. require insulin injections, thereby driving the demand for reliable and user-friendly syringes.

Increasing Focus on Safety

There is a rising emphasis on improving infection control within healthcare settings, thereby stimulating the adoption of advanced syringe technologies. For example, in May 2024, Grand River Aseptic Manufacturing (GRAM), one of the sterile injectable contract manufacturers of small molecules, biologics, and vaccines, expanded its syringe and cartridge capacity to provide greater capacity for the industry's elevating biologics pipeline and the growth in advanced drug delivery systems for patient self-administration. Apart from this, the implementation of stringent regulations by government bodies that mandate the use of safety syringes to prevent needlestick injuries is further acting as a significant growth-inducing factor. For instance, in March 2024, the Food and Drug Administration (FDA) advised healthcare organizations in the U.S. to immediately transition away from using certain unauthorized plastic syringes made in China. The recommendations do not apply to pre-filled syringes, glass syringes, or syringes utilized for oral or topical purposes. Consequently, leading manufacturers are responding by introducing essential high-quality medical products, which will continue to bolster the market in the coming years. For example, in March 2024, BD (Becton, Dickinson and Company), one of the medical technology companies, elevated domestic manufacturing of syringes in Nebraska and Connecticut facilities, U.S., to cater to customer needs.

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Global Syringes Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with the market forecast at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on the product, material, usage, distribution channel, and end user.

Breakup by Product:

- General Syringes
- Specialized Syringes
- Insulin Syringes
- Tuberculin Syringes
- Allergy Syringes
- Others

Among these, general syringes currently exhibit a clear dominance in the market

The report has provided a detailed breakup and analysis of the market based on the product. This includes general syringes, specialized syringes (insulin syringes, tuberculin syringes, and allergy syringes), and others. According to the report, general syringes represented the largest market segmentation.

General syringes, essential tools in medical and healthcare settings, are continually evolving with advancements in technology and design aimed at improving safety, accuracy, and convenience. One of the notable launches is the Medtronic MiniMed 770G Insulin Pump System, which integrates advanced smart technology for precise insulin delivery, catering specifically to diabetes patients. General syringes improve user safety and reduce the risk of accidental injuries, thereby driving the segment's growth.

Breakup by Material:

- Glass Syringes
- Polymer Syringes

Currently, glass syringes hold the largest market share

The report has provided a detailed breakup and analysis of the market based on the material. This includes glass syringes and polymer syringes. According to the report, glass syringes represented the largest market segmentation.

Glass syringes are a crucial component in the medical field, valued for their durability, chemical resistance, and precise delivery capabilities. Unlike plastic syringes, they do not interact with the medications they contain, thereby making them ideal for administering highly reactive or sensitive drugs, such as biologics and certain vaccines. Their use is prominent in the pharmaceutical and biotechnology industries, where maintaining the integrity of the substance is paramount. In January 2024, Schreiner MediPharm, a Germany-based global provider of functional label solutions for the healthcare industry, developed barrier function labels that are generally designed to protect against oxygen ingress for drugs contained in COC syringes.

Breakup by Usage:

- Disposable Syringes
- Conventional Syringes

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Safety Syringes
Prefilled Syringes
Reusable Syringes

Disposable syringes hold the largest share in the market

The report has provided a detailed breakup and analysis of the market based on the usage. This includes disposable syringes (conventional syringes, safety syringes, and prefilled syringes) and reusable syringes. According to the report, disposable syringes represented the largest market segmentation.

Disposable syringes have become an indispensable tool in modern healthcare due to their convenience, affordability, and ability to reduce the risk of cross-contamination and infection significantly. Designed for single use, these syringes are typically made from plastic and come pre-sterilized, ensuring a high standard of hygiene. Their widespread adoption has been driven by health initiatives aiming to combat the spread of infectious diseases. According to the report by IMARC, the global disposable syringes market size reached US\$ 15.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 27.4 Billion by 2032, exhibiting a growth rate (CAGR) of 6.7% during 2024-2032.

Breakup by Distribution Channel:

Offline
Online

The report has provided a detailed breakup and analysis of the market based on the distribution channel. This includes offline and online.

The offline segment, which includes hospitals, clinics, and retail pharmacies, continues to dominate the market due to the immediate availability of products and the trust consumers place in physical purchases, especially for critical healthcare supplies. This traditional distribution method is bolstered by strong relationships between manufacturers and healthcare providers, ensuring a steady supply chain and reliable access to syringes. Conversely, the online segment is experiencing rapid growth, driven by the increasing adoption of e-commerce platforms in the healthcare sector. Online distribution offers significant advantages such as convenience, wider product availability, and competitive pricing, which are particularly appealing to individual consumers and smaller healthcare facilities. Major players in the market, like Becton Dickinson (BD) and Terumo, are leveraging digital platforms to expand their reach and enhance customer engagement.

Breakup by End User:

Hospitals and Clinics
Diagnostic Centers
Speciality Centers
Others

The report has provided a detailed breakup and analysis of the market based on the end user. This includes hospitals and clinics, diagnostic centers, speciality centers, and others.

Syringes play a critical role across various healthcare settings. In hospitals and clinics, they are indispensable for a wide range of procedures, from routine vaccinations and blood draws to administering medications and intravenous therapies. Their reliability and ease of use make them a staple in these high-demand environments. Diagnostic centers heavily rely on syringes for sample

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collection and diagnostic testing, ensuring accurate and sterile handling of specimens. Specialty centers, such as oncology and diabetes care facilities, utilize them for precise administration of treatments like chemotherapy and insulin, which require meticulous dosing and safety. Other settings, such as outpatient care centers and emergency medical services, depend on syringes for immediate, on-the-go medical interventions, highlighting their versatility and importance in diverse medical scenarios.

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom
 - Italy
 - Spain
 - Russia
 - Others
- Latin America
 - Brazil
 - Mexico
 - Others
- Middle East and Africa

North America currently dominates the market

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

As per the syringes market overview, the rising prevalence of chronic diseases, increased vaccination efforts, and advancements in medical technology are acting as growth-inducing factors in North America. Moreover, in the United States, stringent safety regulations set by the Occupational Safety and Health Administration (OSHA) have led to the widespread adoption of safety-engineered syringes that are designed to minimize needlestick injuries and enhance user safety. Besides this, the American Diabetes Association estimated that millions of individuals in the U.S. require insulin injections, thereby escalating the use of reliable and user-friendly syringes. Furthermore, prominent players like Becton Dickinson (BD) and Novo Nordisk are leading the market with their advanced insulin delivery systems.

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Competitive Landscape:

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major market companies have also been provided. Some of the key players in the market include:

B. Braun Melsungen AG
Baxter International Inc.
Becton Dickinson and Company
Cardinal Health Inc.
Gerresheimer AG
Hindustan Syringes & Medical Devices Ltd.
Nipro Corporation
Pfizer Inc.
Retractable Technologies Inc.
Schott AG
Smiths Group plc
Terumo Corporation
Thomas Scientific LLC

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

Syringes Market Recent Developments:

May 2024: Gerresheimer, one of the healthcare and pharmaceutical packaging companies based in Germany, expanded its Queretaro capacity of ready-to-fill (RTF) syringes in Mexico.

March 2024: SCHOTT Pharma built its first U.S. facility to manufacture pre-fillable polymer syringes required to meet the need for deep-cold storage and transportation of mRNA medications.

March 2024: Hindustan Syringes and Medical Devices (HMD), one of the leading providers of auto-disable and disposable syringes, launched Dispojekt, an indigenous single-use safety syringe to minimize instances of needle stick injuries.

Key Questions Answered in This Report

1. What was the size of the global syringes market in 2023?
2. What is the expected growth rate of the global syringes market during 2024-2032?
3. What are the key factors driving the global syringes market?
4. What has been the impact of COVID-19 on the global syringes market?
5. What is the breakup of the global syringes market based on the product?
6. What is the breakup of the global syringes market based on the material?
7. What is the breakup of the global syringes market based on usage?
8. What are the key regions in the global syringes market?
9. Who are the key players/companies in the global syringes market?

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