

# Disposable Syringes Market to Reach USD 17,026.2 Mn by 2035, Growing at 6.1% CAGR from 2024 | TMR

*Disposable Syringes Market to surpass US\$ 17.0 Bn by 2035, growing at 6.1% CAGR, driven by rising healthcare demand, safety needs, and vaccination programs.*

WILMINGTON, DE, UNITED STATES,  
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-- The healthcare sector is undergoing a significant transformation, driven by technological advancements, growing demand for safe drug delivery systems, and increasing emphasis on sustainability. Among the most

indispensable components of modern medicine are disposable syringes, which are critical for the safe administration and withdrawal of fluids such as vaccines, insulin, and other injectable medications.

The global [disposable syringes market](#), valued at US\$ 8,819.3 Mn in 2024, is projected to expand steadily at a CAGR of 6.1% between 2025 and 2035, reaching more than US\$ 17,026.2 Mn by 2035. This growth trajectory underscores the essential role of disposable syringes in global healthcare, supported by mass immunization campaigns, rising prevalence of chronic diseases, and innovations in syringe design that prioritize safety, usability, and environmental responsibility.

Disposable syringes are single-use devices manufactured primarily from plastic, pre-packed in sterile conditions to prevent cross-contamination, and discarded immediately after use. Their widespread adoption stems from their affordability, convenience, and role in preventing infections. Today, the market is evolving beyond basic utility, with innovations such as safety syringes, auto-disable syringes, and eco-friendly biodegradable alternatives gaining traction.

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## Analysts' Viewpoint

Industry analysts emphasize that the disposable syringes market is at a pivotal stage, where demand is being shaped by both medical necessity and societal priorities:

Injectable therapies are increasingly preferred for chronic diseases such as diabetes, arthritis, and cardiovascular conditions due to faster and more effective therapeutic delivery.

Mass vaccination drives, such as those witnessed during the COVID-19 pandemic, have further reinforced the importance of reliable and sterile syringe supplies.

Sustainability pressures are driving innovation, with manufacturers exploring plant-based polymers, recyclable syringe parts, and designs that minimize environmental impact.

Safety features such as retractable needles and Luer lock systems are now widely adopted to prevent accidental injuries and ensure secure medication delivery.

As a result, the market is expected to experience steady expansion, particularly in regions with high healthcare spending and strict infection control policies.

## Market Introduction

Disposable syringes are widely used in hospitals, clinics, vaccination campaigns, diagnostic centers, and home healthcare. They are critical for:

Medication administration (e.g., antibiotics, vaccines, insulin)

Blood withdrawal for diagnostics

Immunization campaigns in both developed and developing economies

Unlike reusable syringes, which require sterilization and carry the risk of infection if improperly handled, disposable syringes are designed for single-use only, ensuring maximum safety. They come in various forms:

Standard disposable syringes (commonly used for intramuscular or intravenous injections)

Safety syringes (designed with mechanisms to prevent needlestick injuries)

Auto-disable syringes (commonly used in vaccination campaigns, preventing reuse)

Insulin syringes (specifically designed for diabetic patients)

The rising burden of chronic diseases, coupled with global efforts to prevent cross-contamination, is making disposable syringes indispensable across medical settings.

## Key Market Drivers

### Growing Adoption of Injectable Medication

The adoption of injectable drugs is increasing due to their ability to deliver rapid therapeutic effects compared to oral medications. Injectable biologics and monoclonal antibodies, widely used in oncology, autoimmune diseases, and chronic illnesses, require safe and reliable delivery systems.

According to the World Health Organization (WHO), nearly 16 billion injections are administered globally each year, with about 90% used for curative care. This volume underscores the centrality of disposable syringes in modern healthcare systems.

The demand is particularly strong in:

**Diabetes management:** With over 500 million diabetics worldwide, insulin syringes remain a critical growth driver.

**Vaccination programs:** Large-scale immunization campaigns continue post-pandemic, particularly for influenza, HPV, and pediatric diseases.

**Oncology treatments:** Injectable biologics form a major portion of cancer therapies.

Disposable syringes ensure sterility, patient safety, and ease of use, making them essential for these applications.

#### Increase in Demand for Sustainable and Eco-friendly Solutions

The medical industry is facing mounting pressure to adopt green practices. Traditional plastic syringes contribute significantly to non-biodegradable medical waste. In response:

Manufacturers are exploring biodegradable polymers and recyclable syringe components.

Governments and regulatory agencies are encouraging R&D into sustainable healthcare consumables.

Healthcare providers are prioritizing procurement from companies with eco-friendly product lines.

Emerging innovations include plant-based syringes, recyclable syringe barrels, and designs with reduced plastic content, which are expected to play a major role in future market growth.

#### Safety Regulations and Needle-stick Injury Prevention

Healthcare workers face risks from accidental needlestick injuries, which can transmit bloodborne infections. This has increased demand for safety syringes with retractable needles, Luer lock mechanisms, and protective shields.

Luer lock syringes, which dominate the product segment, prevent needle disconnections and enhance medication delivery accuracy.

Auto-disable syringes are now mandatory in vaccination programs across several countries, as recommended by WHO and UNICEF.

These regulatory and safety-driven trends are further expanding the disposable syringes market.

## Market Segmentation

The disposable syringes market can be segmented as follows:

### By Product Type

Luer Lock Syringes (Dominant Segment) – Secure locking mechanism, preferred in critical care.  
Luer Slip Syringes – Simple push-fit design, cost-effective, widely used in developing markets.  
Prefilled Syringes – Growing rapidly for vaccines and biologics, minimizing preparation time.  
Safety Syringes – Rising demand due to regulatory support and healthcare worker safety.  
Insulin Syringes – Niche but rapidly growing segment due to global diabetes prevalence.  
Others – Specialized applications.

### By Application

Medication Administration (Dominant) – Covers routine drug injections, biologics, and vaccines.  
Vaccination – Large-scale public health programs.  
Blood Extraction – Diagnostics and blood donation centers.  
Others – Cosmetic and veterinary uses.

### By End-user

Hospitals (Largest Share) – Primary hubs for medication administration and blood draws.  
Clinics – Routine treatments and outpatient care.  
Home Healthcare & Pharmacies – Rising adoption for diabetes management and self-care.  
Diagnostic Laboratories & Blood Banks – Regular blood sampling needs.  
Others – Specialty centers, including veterinary medicine.

## Regional Outlook

### North America (Leading Region)

Holds the largest market share due to advanced healthcare infrastructure, widespread adoption of safety syringes, and strong R&D focus.  
United States is the primary growth engine, with players such as BD, Nipro, and Terumo leading innovation.  
High prevalence of chronic illnesses and a growing elderly population fuel syringe demand.

### Europe

Strong emphasis on eco-friendly medical products and stringent regulations around infection control.

Countries such as Germany, the U.K., and France are adopting safety syringes as standard practice.

### Asia-Pacific

Rapidly growing demand driven by population size, rising healthcare awareness, and government vaccination initiatives.

India and China are major contributors, supported by strong local manufacturing ecosystems.

### Latin America & Middle East/Africa

Growth led by public health initiatives and increasing investments in healthcare infrastructure. Vaccination campaigns are a significant demand driver.

### Competitive Landscape

The market is competitive and fragmented, with global players competing on innovation, scale, and pricing.

### Leading Companies

Becton, Dickinson and Company (BD)  
Nipro Medical Corporation  
Gerresheimer AG  
Terumo Medical Corporation  
ICU Medical  
B. Braun Melsungen AG  
Smiths Group PLC  
Retractable Technologies, Inc.  
Hindustan Syringes & Medical Devices Ltd.  
McKesson Medical-Surgical Inc.

### Recent Developments

BD (January 2025): Announced investments in U.S. manufacturing to expand syringe and IV catheter production capacity.

Genixus (March 2023): Built a new facility in North Carolina for automated syringe manufacturing.

Motherson (2022): Expanded its presence in syringe components through acquisitions. These developments underscore the market's focus on scaling capacity, advancing safety features, and exploring sustainable materials.

### Future Outlook and Opportunities

The disposable syringes market is expected to evolve along the following lines:

Increased adoption of prefilled syringes for biologics and vaccines, reducing dosage errors.

Eco-friendly syringe innovations, such as biodegradable plastics and recyclable designs.

Automation in production, enhancing efficiency and lowering costs.

Expansion in emerging markets, supported by vaccination drives and rising healthcare spending.

Collaborations between pharma companies and syringe manufacturers, ensuring steady supply chains during global health crises.

With demand set to cross US\$ 17 Bn by 2035, manufacturers who can blend safety, sustainability, and affordability will be best positioned to thrive.

The disposable syringes market outlook 2035 reflects a sector that is both resilient and adaptive. From playing a central role in routine medical care to enabling global vaccination campaigns, disposable syringes have become indispensable to healthcare delivery worldwide.

The market's expansion is being driven not just by rising medical demand but also by innovations in safety and sustainability. While Luer lock syringes dominate today, the next decade will see significant growth in safety syringes, prefilled syringes, and eco-friendly designs.

As governments, healthcare providers, and manufacturers align on safety and environmental goals, disposable syringes will continue to play a crucial role in shaping the future of global healthcare systems.

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