

Syringes - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-06-01 | 130 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

Report description:

Syringes Market Analysis

The syringes market is valued at USD 19.96 billion in 2025 and is forecast to reach USD 30.27 billion by 2030, translating into an 8.69% CAGR over the period. Growth momentum is rooted in three converging forces: a steady rise in chronic illnesses that require frequent injections, a structural commitment to mass vaccination capacity, and the pharmaceutical industry's pivot toward biologics that need precise, low-dead-space delivery. Regulatory convergence around ISO 13485 standards, effective in the United States from February 2026, is recalibrating competitive stakes by making quality systems a prerequisite for market access. Meanwhile, sustained supply disruptions tied to sub-standard imports have prompted more than USD 400 million in domestic capacity expansions, led by BD's two-year USD 40 million program to scale Connecticut and Nebraska plants. Across geographies, North America commands purchasing power and accounts for nearly 4 in 10 syringe shipments, while Asia-Pacific delivers the fastest unit growth at 9.32% CAGR, supported by public-health investments and rising chronic-disease incidence. Disposable formats dominate usage because infection-control protocols align with hospital workflow efficiencies, yet specialized syringes—prefillable, safety-engineered, and low-dead-space designs—post the strongest growth as biologics pipelines lengthen and unit economics allow premium pricing.

Global Syringes Market Trends and Insights

Rising Burden of Chronic & Infectious Diseases

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Global diabetes cases are projected to reach 783 million by 2045, intensifying demand for insulin delivery systems that support multiple daily injections. The volume effect is amplified by precision needs because viscous biologics require low-dead-space barrels that limit residual waste. Aging demographics raise injection frequency per patient, driving procurement of advanced syringes that maintain drug stability and ensure dose accuracy. Manufacturers capable of producing specialized formats command price premiums, benefiting from tight alignment with biologics developers. Pharma companies also explore combination therapies, increasing unit value per treatment episode and cementing the role of specialty syringes in chronic-disease care. Over the forecast horizon, the chronic-disease driver will reinforce steady, predictable volume growth across high-income regions while accelerating adoption of premium designs in emerging markets.

Growth in Mass-Vaccination Programs

Post-pandemic health policy now institutionalizes large buffer inventories, evidenced by UNICEF's purchase of 1 billion syringes that remain in stock for future campaigns. Gavi's 2026-2030 roadmap earmarks USD 500 million for emergency immunization reserves, anchoring baseline demand for auto-disable devices that conform to WHO pre-qualification standards. Governments in Africa, Southeast Asia, and Latin America invest in local assembly lines to mitigate import dependence, presenting technology-transfer opportunities for established suppliers. Procurement models increasingly emphasize long-term framework agreements, stabilizing production schedules and enabling suppliers to leverage high-volume tooling. Standardized barrel volumes and luer-lock designs emerge as default specifications, further concentrating volume in dominant disposable categories. The driver's medium-term influence translates into reliable replenishment cycles and incremental unit-price uplift for safety-engineered variants.

High Cost of Safety Syringes & Needlestick-Injury Concerns

Safety-engineered models retail at 2-3 times the price of conventional variants, making budget-constrained facilities reluctant to switch even when regulations recommend safer devices. Central-medical-store tenders in lower-middle-income countries line-item cost above long-term injury liabilities, delaying widespread adoption. Manufacturing scale and polymer automation are gradually compressing unit premiums, but price parity remains several years away for most low-income settings. Innovative procurement mechanisms that amortize device cost against potential litigation savings help reframe the value proposition. Suppliers offering clinical-outcome data and training bundles demonstrate total cost-of-ownership benefits, easing affordability barriers. Over the medium term, combined regulatory pressure and gradual cost convergence are expected to limit the restraint's impact.

Other drivers and restraints analyzed in the detailed report include:

Self-Administration Trend & Dose Precision Demand / Regulatory Push for Safety & Smart Syringes / Alternative Drug-Delivery Technologies /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Disposable formats held 89.23% of syringes market share in 2024, underscoring infection-control imperatives and the logistical advantage of single-use inventory cycles. Hospital protocols standardized on disposable devices after evidence linked reusable barrels to cross-contamination risks, and the shift accelerated following FDA notices on sub-standard imports. Unit-cost economics favor disposables because high-volume molding amortizes tooling quickly, while central sterilization of reusables remains labor-intensive. BD's domestic expansion alone will boost annual output by 600 million units, reinforcing the disposable supply backbone.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Reusable syringes now occupy niche roles such as veterinary surgeries and select low-resource settings where sterilization autoclaves are already in use. Even in those arenas, grant-funded upgrades to single-use devices are progressing as donors apply stricter safety metrics. Training materials, regulatory audits, and electronic inventory platforms increasingly presume disposable workflows. The result is a self-reinforcing cycle where suppliers prioritize disposable innovation and clinicians build familiarity with single-use protocols, further entrenching category leadership across the syringes market.

General-purpose devices retained 65.25% revenue share in 2024 by supplying routine injections, vaccine campaigns, and low-viscosity therapies. Specialized syringes—prefillable, safety-engineered, and low-dead-space models—are projected to post a 9.43% CAGR, the fastest among all product categories. The segment's expansion mirrors pharma's biologics investment, with GLP-1 agonists, mRNA therapeutics, and CAR-T infusions depending on high-precision containers. SCHOTT Pharma's USD 371 million facility in North Carolina exemplifies capacity added to satisfy these advanced formats.

Specialized units command price premiums of 20-150% over commoditized barrels, cushioning suppliers from resin cost volatility. Device complexity, including built-in needle-safety sheaths and RFID tags, also creates intellectual-property moats. Contract manufacturers tailor plunger stoppers and silicone-oil coatings to each molecule, embedding suppliers deeper into pharma value chains. Consequently, specialized formats capture disproportionate value and shape the technology roadmap for the syringes market.

The Syringes Market is Segmented by Usage (Reusable Syringes and Disposable Syringes), Product Type (General Purpose and Specialized), Material (Glass, Plastic, and More), End User (Hospitals, Ambulatory Surgery Centers, and More), Application (Diabetes and More) and Geography (North America, Europe, Asia-Pacific, and More). The Market and Forecasts are Provided in Terms of Value (USD).

Geography Analysis

North America controlled 39.44% of syringes market revenue in 2024, propelled by high per-capita healthcare spending, early biologic adoption, and mandatory safety-device use in most clinical workflows. Domestic reshoring accelerates as BD upgrades multiple U.S. plants, adding capacity that cuts lead times by 40% and meets stricter FDA track-and-trace mandates. Federal funding incentives, tied to pandemic preparedness, further underwrite expansion of fill-finish infrastructure, ensuring downstream demand for specialized syringes.

Asia-Pacific delivers the fastest regional CAGR at 9.32%, underpinned by rapidly expanding middle-class populations and government healthcare reforms that subsidize chronic-disease medications. Japan and South Korea anchor high-value biologic fill-finish activities, while India and Vietnam absorb large volumes of commodity disposables for immunization programs. Regulatory scrutiny of Chinese plants—sparked by FDA quality alerts—drives multinational pharma to diversify toward ASEAN suppliers with higher compliance credentials. This diversification strategy redistributes orders and sets a higher baseline for regional quality expectations.

Europe retains a stronghold in specialized formats and eco-design leadership, buoyed by comprehensive reimbursement frameworks that reward safety and sustainability. Gerresheimer's German production lines offer cyclo-olefin-polymer barrels that meet stringent EU recyclable-content thresholds, giving European buyers compliant options without switching material classes. Middle East and Africa, along with South America, represent emerging opportunity corridors where vaccination rollouts and improving hospital infrastructures drive steady syringe demand. Nevertheless, currency volatility and slower regulatory harmonization temper investment speed in those regions.

List of Companies Covered in this Report:

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Becton Dickinson & Co. / Terumo Corp. / B. Braun / Nipro Corp. / Gerresheimer / Hindustan Syringes & Medical Devices / Cardinal Health / SCHOTT / West Pharmaceutical Services / Stevanato Group / Retractable Technologies / Smiths Group / Sol-Millennium Medical / Baxter / Owen Mumford / Catalent Pharma Solutions / M.C. Johnson Co. / Changzhou Mingle Medical / Hi-Tech Syringes / West (Daikyo) /

Additional Benefits:

 The market estimate (ME) sheet in Excel format /
3 months of analyst support /

Table of Contents:

1 Introduction

1.1 Study Assumptions & Market Definition

1.2 Scope of the Study

2 Research Methodology

3 Executive Summary

4 Market Landscape

4.1 Market Overview

4.2 Market Drivers

4.2.1 Rising burden of chronic & infectious diseases

4.2.2 Growth in mass-vaccination programs

4.2.3 Self-administration trend & dose-precision demand

4.2.4 Regulatory push for safety & smart syringes

4.2.5 Rapid uptake of low-dead-space syringes for cell & gene therapy

4.2.6 RFID-enabled waste-traceability boosting smart syringes adoption

4.3 Market Restraints

4.3.1 High cost of safety syringes & needlestick-injury concerns

4.3.2 Alternative drug-delivery (patches, pumps, inhalers)

4.3.3 Plastic-medical-waste compliance costs

4.3.4 Borosilicate glass-tubing shortages for prefillable formats

4.4 Regulatory Landscape

4.5 Technological Outlook

4.6 Porters Five Forces Analysis

4.6.1 Threat of New Entrants

4.6.2 Bargaining Power of Buyers

4.6.3 Bargaining Power of Suppliers

4.6.4 Threat of Substitutes

4.6.5 Competitive Rivalry

5 Market Size & Growth Forecasts (Value, USD)

5.1 By Usage

5.1.1 Reusable Syringes

5.1.2 Disposable Syringes

5.2 By Product Type

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.2.1 General Purpose
- 5.2.2 Specialized
- 5.3 By Material
 - 5.3.1 Glass
 - 5.3.2 Plastic
 - 5.3.3 Others
- 5.4 By End User
 - 5.4.1 Hospitals
 - 5.4.2 Ambulatory Surgery Centers
 - 5.4.3 Home-care
 - 5.4.4 Others
- 5.5 By Application
 - 5.5.1 Diabetes
 - 5.5.2 Vaccination & Immunization
 - 5.5.3 Botox / Aesthetic
 - 5.5.4 Osteoarthritis
 - 5.5.5 Human Growth Hormone
 - 5.5.6 Others
- 5.6 By Geography
 - 5.6.1 North America
 - 5.6.1.1 United States
 - 5.6.1.2 Canada
 - 5.6.1.3 Mexico
 - 5.6.2 Europe
 - 5.6.2.1 Germany
 - 5.6.2.2 United Kingdom
 - 5.6.2.3 France
 - 5.6.2.4 Italy
 - 5.6.2.5 Spain
 - 5.6.2.6 Rest of Europe
 - 5.6.3 Asia-Pacific
 - 5.6.3.1 China
 - 5.6.3.2 Japan
 - 5.6.3.3 India
 - 5.6.3.4 Australia
 - 5.6.3.5 South Korea
 - 5.6.3.6 Rest of Asia-Pacific
 - 5.6.4 Middle East and Africa
 - 5.6.4.1 GCC
 - 5.6.4.2 South Africa
 - 5.6.4.3 Rest of Middle East and Africa
 - 5.6.5 South America
 - 5.6.5.1 Brazil
 - 5.6.5.2 Argentina
 - 5.6.5.3 Rest of South America

6 Competitive Landscape

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

6.1 Market Concentration

6.2 Market Share Analysis

6.3 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products & Services, and Recent Developments)

6.3.1 Becton Dickinson & Co.

6.3.2 Terumo Corp.

6.3.3 B. Braun Melsungen AG

6.3.4 Nipro Corp.

6.3.5 Gerresheimer AG

6.3.6 Hindustan Syringes & Medical Devices

6.3.7 Cardinal Health Inc.

6.3.8 Schott AG

6.3.9 West Pharmaceutical Services

6.3.10 Stevanato Group

6.3.11 Retractable Technologies Inc.

6.3.12 Smiths Medical (ICU Medical)

6.3.13 Sol-Millennium Medical

6.3.14 Baxter International Inc.

6.3.15 Owen Mumford Ltd.

6.3.16 Catalent Pharma Solutions

6.3.17 M.C. Johnson Co.

6.3.18 Changzhou Mingle Medical

6.3.19 Hi-Tech Syringes

6.3.20 West (Daikyo)

7 Market Opportunities & Future Outlook

7.1 White-space & Unmet-Need Assessment

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

**Syringes - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts
(2025 - 2030)**

Market Report | 2025-06-01 | 130 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-04"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

