

Pharmaceutical Packaging Equipment - A Global Market Overview

<https://marketpublishers.com/r/P4695F62025FEN.html>

Date: October 2025

Pages: 301

Price: US\$ 4,500.00 (Single User License)

ID: P4695F62025FEN

Abstracts

Pharmaceutical Packaging Equipment encompasses a comprehensive range of machinery and integrated systems used for processing, packaging, labeling, inspecting, and preparing pharmaceutical products, including tablets, capsules, liquids, injectables, creams, vials, syringes, and sachets, for safe distribution. It includes primary packaging machines (filling, sealing, blistering, vial/ampoule and syringe filling), secondary packaging machines (cartoners, case packers, labelers), tertiary systems (palletizers, stretch wrappers), and specialized units for inspection, serialization, cleaning, sterilization, and automation control. These systems ensure sterility, regulatory compliance, and traceability, enabling efficient, contamination-free packaging of medicines for storage, sale, and patient use.

The market, estimated at US\$8.4 billion in 2025 and projected to reach US\$14.8 billion by 2032 at a CAGR of 8.3%, is driven by the expanding production of biologics, vaccines, and personalized medicines. Rising regulatory scrutiny, through programs such as the DSCSA and EU FMD, is accelerating adoption of serialization, tamper-evident, and traceability technologies. At the same time, increasing reliance on contract manufacturing and packaging organizations (CMOs/CPOs) fuels demand for modular, high-speed, and flexible systems. Technological integration of robotics, PLC/SCADA, AI, and machine vision is revolutionizing throughput, quality control, and predictive maintenance, while sustainability trends are steering the industry toward recyclable, lightweight, and bio-based packaging materials.

The report provides market estimates by product type, formulation type, technology type, and end-user, covering five major global regions and 30+ leading companies, including Syntegon Technologies, IMA Group, OPTIMA Packaging, Marchesini Group, Korber AG, Groninger, Harro Hofliger, GEA Group, Uhlmann, Coesia, and Tofflon

Science & Technology, among others.

Pharmaceutical Packaging Equipment Regional Market Analysis

Asia-Pacific, accounting for over 35% of the global Pharmaceutical Packaging Equipment market in 2025, is the leading regional market and is projected to grow at a robust CAGR of 10.7% through 2032. Expanding pharmaceutical manufacturing in China, India, and Southeast Asia, driven by aging populations and rising drug consumption, is fueling strong demand for advanced packaging systems. The region's growing biologics and specialty drug production is spurring investments in sterile, blow-fill-seal, and cold-chain packaging lines, while tightening regulations on serialization and anti-counterfeiting are boosting adoption of track-and-trace and vision inspection systems. Additionally, increasing outsourcing to regional contract packaging organizations (CPOs), along with upgrades to automated, eco-friendly, and high-speed equipment, is transforming Asia-Pacific into the fastest-growing hub for pharmaceutical packaging machinery worldwide.

Pharmaceutical Packaging Equipment Market Analysis by Product Type

Primary Packaging Equipment, accounting for an estimated 42.9% share in 2025, represents the largest product category in the global Pharmaceutical Packaging Equipment market due to its central role in high-volume, high-value filling and sealing of sterile products, including vials, ampoules, syringes, and prefilled devices. Demand is sustained by the expanding production of biologics, vaccines, and parenterals, which require precision, sterility, and cold-chain-ready systems. Meanwhile, Labeling & Serialization Equipment is poised to be the fastest-growing category, registering a CAGR of 9.9% over 2025-2032, driven by global regulatory mandates such as the DSCSA and EU FMD that enforce traceability, anti-counterfeit, and tamper-evident measures. Rising adoption of serialization printers, aggregation systems, vision inspection tools, RFID, and dynamic labeling technologies, along with the replacement of legacy systems to meet evolving compliance requirements, further fuels growth in this vital segment.

Pharmaceutical Packaging Equipment Market Analysis by Formulation Type

Liquid Pharmaceutical Packaging Equipment constitutes the largest formulation-based segment, accounting for an estimated 37.4% share in 2025, driven by the extensive production of oral syrups, injectables, vaccines, and ophthalmic preparations that require precision filling, aseptic sealing, and contamination-free containment. The

capital-intensive nature of sterile and parenteral packaging lines, coupled with the rapid growth of biologics and vaccine manufacturing, reinforces demand for advanced liquid-filling and isolator systems. In contrast, Semi-Solid Pharmaceutical Packaging Equipment is expected to record the fastest growth, with a projected CAGR of around 9% during 2025-2032, supported by the expanding market for topical and patient-centric formulations such as creams, gels, and cosmeceuticals. Rising innovation in nanoemulsion-based and combination therapies, alongside increased outsourcing to CMOs and growing adoption of flexible, small-batch tube and sachet filling lines, further boosts demand in this fast-evolving category.

Pharmaceutical Packaging Equipment Market Analysis by Technology

Automatic Pharmaceutical Packaging Equipment dominates the global market with a 53% share in 2025 and is projected to register the fastest CAGR of 11.8% during 2025-2032, driven by the demand for high-speed, high-precision systems such as fillers, blister packers, cartoners, and case packers. Regulatory mandates for serialization, aggregation, and aseptic compliance (21 CFR Part 11) are prompting manufacturers to adopt automated printers, vision inspection, and integrated traceability systems. Automation minimizes contamination risk, labor dependency, and operational errors while enabling real-time monitoring, predictive maintenance, and MES integration. The growing production of biologics, vaccines, and prefilled systems further reinforces the need for aseptic, closed-loop, robotic, and high-throughput lines. Combined with reshoring initiatives and cost-efficiency benefits, these factors make automatic systems both the largest and fastest-growing technology category in the Pharmaceutical Packaging Equipment market.

Pharmaceutical Packaging Equipment Market Analysis by End-User

Pharmaceutical Manufacturers constitute the largest end-user group, accounting for an estimated 62.4% share in 2025, as major drug producers rely on extensive fleets of high-speed, automated packaging lines for branded, generic, and OTC products across multiple dosage forms. Their dominance stems from large-scale output, periodic upgrades, and vertical integration strategies that enhance control over quality and compliance. Meanwhile, Biotechnology Companies are projected to register the fastest growth, with a CAGR of 9.2% during 2025-2032, driven by expanding biologics and advanced therapy pipelines that require sterile, specialized primary and secondary packaging for vials, prefilled syringes, and cartridges. The rise of small-batch and personalized therapies, alongside stringent sterility and traceability regulations, is accelerating investment in flexible, modular, and high-precision equipment, both by

biotech firms and their contract manufacturing partners.

Pharmaceutical Packaging Equipment Market Report Scope

This global report on Pharmaceutical Packaging Equipment analyzes the market based on Region, Product Type, Formulation Type, Technology Type and End-User for the period 2022-2032 with forecasts from 2025 to 2032 in US\$ million. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2022-2024

Base Year: 2025

Forecast Period: 2025-2032

Units: Value market in US\$

Companies Mentioned: 30+

Pharmaceutical Packaging Equipment Market by Geographic Region

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, the United Kingdom and Rest of Europe)

Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)

Rest of world

Pharmaceutical Packaging Equipment Market by Product Type

Primary Packaging Equipment

Secondary Packaging Equipment

Tertiary Packaging Equipment

Labeling & Serialization Equipment

Pharmaceutical Packaging Equipment Market by Formulation Type

Liquid Packaging Equipment

Semi-Solid Packaging Equipment

Solid Packaging Equipment

Transdermal Patch Packaging Equipment

Other Formulation Types Packaging Equipment (Incl. Bulk Packaging Equipment, Device & Combination Product Packaging Equipment and Pouch & Sachet Packaging Equipment)

Pharmaceutical Packaging Equipment Market by Technology Type

Automatic Pharmaceutical Packaging Equipment

Semi-Automatic Pharmaceutical Packaging Equipment

Manual Pharmaceutical Packaging Equipment

Pharmaceutical Packaging Equipment Market by End-User

Biotechnology Companies

Contract Packaging Organizations

Pharmaceutical Manufacturers

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Secondary Packaging Equipment

Tertiary Packaging Equipment

Labeling & Serialization Equipment

Pharmaceutical Packaging Equipment Formulation Types

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Semi-Solid Packaging Equipment

Solid Packaging Equipment

Transdermal Patch Packaging Equipment

Other Formulation Types Packaging Equipment (Incl. Bulk Packaging Equipment, Device & Combination Product Packaging Equipment and Pouch & Sachet Packaging Equipment)

Pharmaceutical Packaging Equipment Technology Types

Automatic Pharmaceutical Packaging Equipment

Semi-Automatic Pharmaceutical Packaging Equipment

Manual Pharmaceutical Packaging Equipment

Pharmaceutical Packaging Equipment End-Users

Biotechnology Companies

Contract Packaging Organizations

Pharmaceutical Manufacturers

2. KEY MARKET TRENDS

3. KEY MARKET PLAYERS

Accutek Packaging Equipment Companies, Inc.

ACG Group, Inc.

ACIC Pharmaceuticals Inc.

ARPAC LLC

Bausch+Strobel Maschinenfabrik Ilshofen GmbH + Co. KG

Brevetti C.E.A. Spa
Busch Machinery, Inc.
Coesia SpA
Duke Technologies, LLC
GEA Group AG
Glatt GmbH
Groninger & Co GmbH
Harro Hofliger Verpackungsmaschinen GmbH
Industria Macchine Automatiche (IMA) SpA
Inline Filling Systems
Ishida Co Ltd
Korber AG
Maqunaria Industrial Dara, SL
Marchesini Group SpA
MG2 S.R.L.
MULTIVAC Sepp Haggenmuller SE & Co. KG
NJM Packaging, Inc.
OPTIMA Packaging Group GmbH
Robert Bosch Packaging Technology GmbH
Romaco Holding GmbH
Syntegon Technologies GmbH
Tofflon Science and Technology Co Ltd
TruKing Technology Ltd
Trustar Pharma Pack Equipment Co. Ltd.
Uhlmann Pac-Systeme GmbH & Co KG
Vanguard Pharmaceutical Machinery, Inc.

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- Secondary Packaging Equipment
- Tertiary Packaging Equipment
- Labeling & Serialization Equipment

Global Pharmaceutical Packaging Equipment Market Overview by Formulation Type

Pharmaceutical Packaging Equipment Formulation Type Market Overview by Global Region

Liquid Packaging Equipment

Semi-Solid Packaging Equipment

Solid Packaging Equipment

Transdermal Patch Packaging Equipment

Other Formulation Types Packaging Equipment (Incl. Bulk Packaging Equipment, Device & Combination Product Packaging Equipment and Pouch & Sachet Packaging Equipment)

Global Pharmaceutical Packaging Equipment Market Overview by Technology Type

Pharmaceutical Packaging Equipment Technology Type Market Overview by Global Region

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Semi-Automatic Pharmaceutical Packaging Equipment

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Biotechnology Companies

Contract Packaging Organizations

Pharmaceutical Manufacturers

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REGIONAL MARKET OVERVIEW

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