

Automated Compounding Devices Market to Hit \$6.19 Billion by 2033 | 11.4% CAGR Driven by Oncology & Hospitals

The Automated Compounding Devices Market will grow from \$2.35 Billion in 2024 to \$6.19 Billion by 2033, at 11.4% CAGR, driven by oncology & hospitals.

AUSTIN, TX, UNITED STATES, September 2, 2025 /EINPresswire.com/ -- The [Automated Compounding Devices Market](#) was valued at USD 2.35 billion in 2024 and is expected to reach USD 6.19 billion by 2033, growing at a robust CAGR of 11.4% during 2025–2033, according to DataM Intelligence. This strong growth reflects the increasing adoption of automated

solutions across hospitals and pharmacies for safe, efficient, and accurate drug preparation. Automated Compounding Systems (ACS), also known as Automated Compounding Devices (ACD), are advanced technologies that streamline the preparation of intravenous (IV) medications, nutritional solutions, and chemotherapy drugs. By minimizing manual errors,

reducing contamination risks, and ensuring precise dosage accuracy, these devices are becoming indispensable in modern healthcare settings.

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Robotic automation and AI-powered systems are reshaping the Automated Compounding Devices Market, boosting adoption in hospitals worldwide.”

DataM Intelligence

The market is primarily driven by the rising prevalence of chronic diseases such as cancer, diabetes, and cardiovascular disorders, which demand precise medication dosing and complex therapies. The oncology sector accounts for a major portion of demand, as chemotherapy treatments often require customized

compounding. Regionally, North America leads the global market, supported by advanced healthcare infrastructure, early technology adoption, and stringent regulations to improve medication safety. Meanwhile, Asia-Pacific is expected to witness the fastest growth, fueled by



Automated Compounding Devices Market

expanding healthcare expenditure and government investments in hospital automation.

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Key Highlights from the Report

- The Automated Compounding Devices Market will grow at a CAGR of 11.4% between 2025-2033.
- North America dominates the market, while Asia-Pacific is projected to record the fastest growth.
- Oncology applications remain the largest segment, driven by the rising burden of cancer cases.
- Hospitals are the leading end-users, with growing investments in pharmacy automation.
- Demand is increasing for robotic compounding systems that minimize human error.
- Key players are focusing on mergers, acquisitions, and AI integration for product innovation.

Market Segmentation

The Automated Compounding Devices Market is segmented based on product type, end-user, and application.

By Product Type: The market includes robotic compounding systems and gravimetric compounding systems. Robotic devices dominate due to their higher accuracy, speed, and ability to handle complex drug formulations, including chemotherapy mixtures and parenteral nutrition solutions.

By End-User: Hospitals represent the largest end-user segment, as they require large-scale drug compounding solutions to serve inpatients, ICUs, and oncology units. Retail and compounding pharmacies are also adopting automated systems to improve workflow efficiency and comply with regulatory standards.

By Application: The oncology sector leads due to the high demand for personalized chemotherapy preparations. Parenteral nutrition is another fast-growing segment, especially for pediatric and critical care patients, where precision in nutrition compounding is essential.

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Regional Insights

North America dominates the global market, driven by advanced healthcare infrastructure, rising

cancer incidence, and regulatory emphasis on medication safety. The U.S. leads within the region due to strong adoption of pharmacy automation and the presence of leading players. Europe follows closely, with Germany, the UK, and France showing strong adoption of automated compounding devices. The region benefits from strict EU regulations for sterile drug preparation and investments in hospital automation.

Asia-Pacific is projected to be the fastest-growing region. Countries like China, India, and Japan are expanding healthcare spending, investing in modern hospital infrastructure, and increasingly adopting automated solutions to address the shortage of skilled pharmacists.

Latin America and the Middle East & Africa are still emerging markets but are expected to show steady growth due to government initiatives and rising healthcare access.

Market Dynamics

Market Drivers

The key growth drivers include the rising prevalence of chronic diseases, increasing demand for precision medicine, and the need for error-free medication compounding. Hospitals are under pressure to improve patient safety and reduce hospital-acquired infections, which automated compounding devices address effectively. Furthermore, technological advancements such as robotic automation, AI integration, and smart IV workflow management systems are accelerating adoption.

Market Restraints

High installation and maintenance costs remain a significant restraint, especially for small and medium healthcare facilities. Additionally, the lack of trained professionals to operate and maintain advanced automated devices poses a challenge. Regulatory hurdles and lengthy approval processes also delay market expansion.

Market Opportunities

There are immense opportunities in integrating AI and machine learning to enhance accuracy and efficiency. Expansion in emerging economies presents lucrative growth potential as governments invest in healthcare modernization. The rising trend of personalized medicine and growing adoption of pharmacy automation in outpatient settings are also expected to create new opportunities for manufacturers.

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Reasons to Buy the Report

- Comprehensive market analysis with forecasts up to 2033.
- Insights into key drivers, restraints, and opportunities shaping the market.

- Regional insights highlighting growth opportunities across geographies.
- Competitive landscape with profiles of leading players and recent developments.
- Strategic recommendations for investors, manufacturers, and healthcare providers.

Frequently Asked Questions (FAQs)

- How big is the Automated Compounding Devices Market in 2024?
- What is the projected growth rate of the Automated Compounding Devices Market from 2025–2033?
- Who are the key players in the global Automated Compounding Devices Market?
- What is the market forecast for Automated Compounding Systems by 2033?
- Which region is expected to dominate the Automated Compounding Devices industry through the forecast period?

Company Insights

Key players operating in the market include:

- Baxter International Inc.
- ICU Medical Inc.
- Omnicell Inc.
- B. Braun Melsungen AG
- Grifols S.A.
- Fresenius Kabi AG
- Arxium Inc.
- Equashield LLC

Recent Developments:

In 2023, Baxter International expanded its compounding solutions portfolio by introducing next-generation robotic systems designed for oncology drug preparation.

Omnicell announced strategic partnerships in 2024 to integrate AI-powered pharmacy automation solutions for hospitals across North America and Europe.

Conclusion

The Automated Compounding Devices Market is set to grow rapidly over the next decade, fueled by rising healthcare automation, increasing demand for safe and accurate drug preparation, and technological innovations. North America continues to lead the market, while Asia-Pacific offers significant untapped potential for manufacturers and investors. With opportunities in oncology, parenteral nutrition, and AI-driven automation, the sector is poised for substantial transformation. Companies that focus on product innovation, regulatory compliance, and strategic expansion into emerging regions will be well-positioned to capitalize on this growth.

trajectory.

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