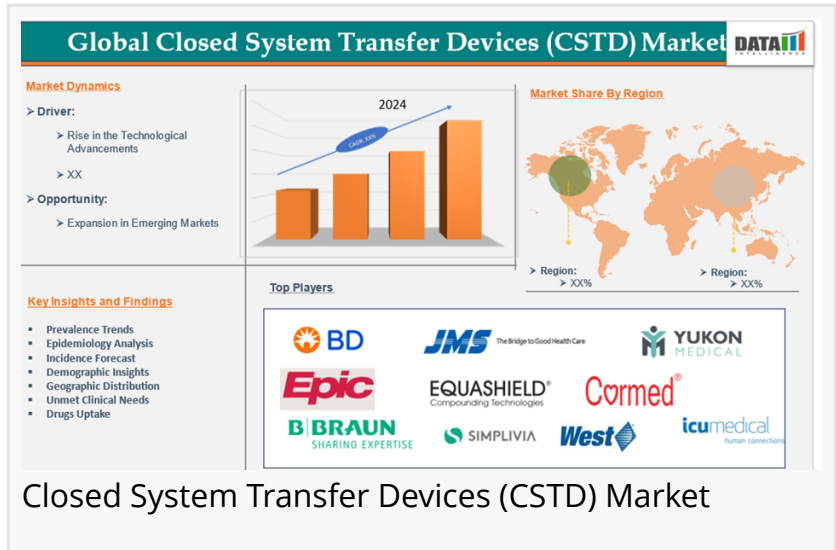


# Closed System Drug Transfer Devices Market Size, Trends, Share & Forecast 2025 | DataM Intelligence

*The Global Closed System Transfer Devices (CSTD) Market is estimated to reach at a CAGR 11.7% during the forecast period (2025-2033).*

AUSTIN, TX, UNITED STATES, June 2, 2025 /EINPresswire.com/ -- The [Global Closed System Drug Transfer Devices Market](#) is experiencing significant expansion, driven by advancements in technology, stringent safety regulations, and increasing demand for oncology treatments. According to a recent report by DataM Intelligence, the market is projected to grow from USD 718.29 million in 2024 to USD 1,968.26 million by 2033, representing a compound annual growth rate of 11.7% during the forecast period.



Closed System Transfer Devices (CSTD) Market

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The Closed System Transfer Devices market is growing rapidly, driven by increasing demand for safe drug handling in healthcare and rising adoption of advanced safety technologies.”

*DataM Intelligence*

## Market Overview:

CSTDs are specialized medical devices designed to prevent the escape of hazardous drugs into the environment and the ingress of contaminants into the system. They are crucial in safeguarding healthcare workers from exposure to dangerous substances during drug preparation and administration. The increasing adoption of CSTDs is attributed to their effectiveness in minimizing occupational exposure risks and ensuring patient safety.

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Market Drivers & Opportunities:

The Closed System Transfer Devices (CSTD) market is growing steadily, fueled by several key factors that are shaping its expansion.

**Technological Advancements:** Material and design innovations have increased the efficiency and durability of CSTDs, making them more user-friendly and effective in shielding people from harmful drug exposure.

**Regulatory Compliance:** Stringent regulations, such as USP <800> in the United States, mandate the use of CSTDs in healthcare settings to ensure the safe handling of hazardous drugs.

**Increasing Cancer Incidence:** The rising prevalence of cancer globally has led to an increased demand for chemotherapy treatments, thereby driving the need for safe drug transfer systems.

**Awareness of Occupational Safety:** As healthcare workers become more conscious of the dangers of handling dangerous pharmaceuticals, CSTDs are being used more frequently to shield employees from exposure to carcinogens and other dangerous compounds.

Market Segmentation:

By Product Type

Membrane-to-Membrane Systems

Needleless Systems.

By Component

Vial Access Devices

Syringe Safety Devices

Bag Spikes

Male and Female Luer Components.

By Closing Mechanism

Click-to-Lock Systems

Luer-Lock Systems

Push-to-Turn

Color-to-Color Systems.

By Technology

Diaphragm-Based Devices

Air Filtration Devices.

By End-User

Hospitals

Clinics

Others.

By Region

North America

Latin America

Europe

Asia Pacific

Middle East

Africa.

Regional Market Insights:

North America: Due to its strong technological adoption, sophisticated healthcare system, and strict regulations, the region is anticipated to account for a sizeable portion of the global CSTD market. It is anticipated that the U.S. market will increase from USD 492.79 million in 2024 to USD 1,412.51 million by 2032.

Asia Pacific: This region is anticipated to witness the highest market growth over the forecast period, fueled by increasing cancer incidence, government investments in healthcare infrastructure, and rising awareness about occupational safety. Countries like Japan are focusing on high-precision CSTDs to enhance patient and healthcare worker safety in advanced medical settings .

Key Market Players:

Key companies in the Closed System Transfer Devices (CSTD) industry include:

Becton, Dickinson and Company

ICU Medical, Inc.

EQUASHIELD

B. Braun SE

Yukon Medical

Simplivia Healthcare, LLC

JMS Co.Ltd.

West Pharmaceutical Services, Inc

Cormed.

Epic Medical

These companies are focusing on product innovations, strategic partnerships, and expanding their global presence to capitalize on the growing demand for CSTDs.

Recent Developments:

United States:

December 2024: Zephyrus Innovations launched "VaporShield," the first injectable CSTD, addressing safety needs for subcutaneous and intramuscular injections under USP <800> regulations.

October 2023: EQUASHIELD LLC gained FDA approval for full-volume use of their Syringe Unit, which improves drug compounding and administration efficiency.

Japan:

2023: Japan implemented regulations similar to USP <800>, focusing on the safe handling of hazardous drugs, thereby promoting the adoption of CSTDs in healthcare settings.

2024: Japanese healthcare institutions increased investments in CSTD technologies to comply with new safety standards, enhancing occupational safety measures.

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Conclusion:

The Global Closed System Drug Transfer Devices market is expected to develop significantly, owing to technical advancements, severe regulatory requirements, and increased workplace safety awareness. North America and Asia Pacific are likely to be major contributors to this expansion. With continuous innovation and an emphasis on safety, the CSTD market is poised to play a critical role in improving the safety and efficiency of drug handling in healthcare settings around the world.

Related Reports:

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[Drug-Resistant Epilepsy Market](#)

Sai Kiran

DataM Intelligence 4Market Research

+1 877-441-4866

Sai.k@datamintelligence.com

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