

# Global Closed System Drug Transfer Device (CSTD) Market Growth 2025-2031

<https://marketpublishers.com/r/G71B96D9A87EN.html>

Date: March 2025

Pages: 91

Price: US\$ 3,660.00 (Single User License)

ID: G71B96D9A87EN

## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Closed System Drug Transfer Device (CSTD) market size is predicted to grow from US\$ 1111 million in 2025 to US\$ 3119 million in 2031; it is expected to grow at a CAGR of 18.8% from 2025 to 2031.

A closed system drug transfer device or 'CSTD' is a drug transfer device that mechanically prohibits the transfer of environmental contaminants into a system and the escape of hazardous drug or vapor concentrations outside the system.

NIOSH recommends healthcare workers use a CSTD throughout the hazardous drug-handling chain, from pharmaceutical compounding to patient dose administration. CSTDs should not be the only means of worker protection. They should be used as part of a hazardous drug safety program and used in conjunction with other engineering controls.

The rapid development of the closed-system drug transfer device market is driven by several key factors. First, there is a growing global emphasis on medical safety and sterile operations, particularly in hospitals, clinics, and other healthcare facilities. Preventing drug contamination and cross-infection has become a top priority. Closed-system drug transfer devices effectively ensure sterility during the transportation and transfer of drugs, reducing the risk of exposure to harmful substances for both healthcare workers and patients.

Second, advancements in biopharmaceuticals and personalized medicine have led to an increase in new types of drugs (such as cancer drugs and immunotherapy agents)

that require highly controlled storage and transport conditions. These drugs are often highly active and sensitive, necessitating handling in controlled environments to ensure their stability and efficacy. Additionally, increasingly stringent regulations are compelling healthcare institutions to adopt more advanced transfer systems to comply with standards and guidelines, thereby avoiding potential legal risks and penalties.

In the future, the closed-system drug transfer device market will exhibit several significant trends. On one hand, technological innovation will continue to propel this field forward. For instance, the application of intelligent and automated technologies will make transfer devices more efficient, precise, and easier to manage, reducing the likelihood of human error. The integration of Internet of Things (IoT) technology allows these devices to monitor the status and environmental parameters of drugs in real-time, providing immediate feedback and alerts, which enhances supply chain transparency and traceability.

On the other hand, influenced by concepts of environmental protection and sustainability, manufacturers will place greater emphasis on the environmental performance and energy efficiency of their products. They will develop materials and technologies that are lighter, more energy-efficient, and easier to recycle. Furthermore, as the uneven distribution of global healthcare resources becomes more pronounced, the growing demand for telemedicine services will drive the use of closed-system drug transfer devices in remote areas and primary healthcare facilities, further expanding market coverage.

LP Information, Inc. (LPI) ' newest research report, the "Closed System Drug Transfer Device (CSTD) Industry Forecast" looks at past sales and reviews total world Closed System Drug Transfer Device (CSTD) sales in 2024, providing a comprehensive analysis by region and market sector of projected Closed System Drug Transfer Device (CSTD) sales for 2025 through 2031. With Closed System Drug Transfer Device (CSTD) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Closed System Drug Transfer Device (CSTD) industry.

This Insight Report provides a comprehensive analysis of the global Closed System Drug Transfer Device (CSTD) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Closed System Drug Transfer Device (CSTD) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better

understand these firms' unique position in an accelerating global Closed System Drug Transfer Device (CSTD) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Closed System Drug Transfer Device (CSTD) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Closed System Drug Transfer Device (CSTD).

This report presents a comprehensive overview, market shares, and growth opportunities of Closed System Drug Transfer Device (CSTD) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Closed Vial Access Devices

Closed Syringe Safety Devices

Closed Bag and Line Access Devices

Segmentation by Application:

Hospitals

Clinics

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

## GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

BD Medical, Inc

Equashield

ICU Medical

Simplivia Healthcare Ltd.

Corvida Medical

B. Braun

Yukon Medical

JMS

Caragen Ltd.

Epic Medical

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Closed System Drug Transfer Device (CSTD) market?

What factors are driving Closed System Drug Transfer Device (CSTD) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Closed System Drug Transfer Device (CSTD) market opportunities vary by end market size?

How does Closed System Drug Transfer Device (CSTD) break out by Type, by Application?

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