

Global Closed System Drug Transfer Device (CSTD) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Closed System Drug Transfer Device (CSTD) market size is expected to reach \$ 3608 million by 2032, rising at a market growth of 17.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Closed System Drug Transfer Device (CSTD) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Closed System Drug Transfer Device (CSTD) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Closed System Drug Transfer Device (CSTD) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Closed System Drug Transfer Device (CSTD) total production and demand, 2021-2032, (Million Units)

Global Closed System Drug Transfer Device (CSTD) total production value, 2021-2032, (USD Million)

Global Closed System Drug Transfer Device (CSTD) production by region & country,

production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Closed System Drug Transfer Device (CSTD) consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Closed System Drug Transfer Device (CSTD) domestic production, consumption, key domestic manufacturers and share

Global Closed System Drug Transfer Device (CSTD) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Closed System Drug Transfer Device (CSTD) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Closed System Drug Transfer Device (CSTD) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Closed System Drug Transfer Device (CSTD) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BD Medical, Inc, Equashield, ICU Medical, Simplivia Healthcare Ltd., Corvida Medical, B. Braun, Yukon Medical, JMS, Caragen Ltd., Epic Medical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Closed System Drug Transfer Device (CSTD) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Closed System Drug Transfer Device (CSTD) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Closed System Drug Transfer Device (CSTD) Market, Segmentation by Type:

Closed Vial Access Devices

Closed Syringe Safety Devices

Closed Bag and Line Access Devices

Global Closed System Drug Transfer Device (CSTD) Market, Segmentation by Application:

Hospitals

Clinics

Companies Profiled:

BD Medical, Inc

Equashield

ICU Medical

Simplivia Healthcare Ltd.

Corvida Medical

B. Braun

Yukon Medical

JMS

Caragen Ltd.

Epic Medical

Key Questions Answered:

1. How big is the global Closed System Drug Transfer Device (CSTD) market?
2. What is the demand of the global Closed System Drug Transfer Device (CSTD) market?
3. What is the year over year growth of the global Closed System Drug Transfer Device (CSTD) market?
4. What is the production and production value of the global Closed System Drug Transfer Device (CSTD) market?
5. Who are the key producers in the global Closed System Drug Transfer Device (CSTD) market?
6. What are the growth factors driving the market demand?

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