

Global Closed System Transfer Device (CSTD) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Closed System Transfer Device (CSTD) market size was valued at US\$ 984 million in 2024 and is forecast to a readjusted size of USD 3103 million by 2031 with a CAGR of 17.7% during review period.

Closed System Transfer Device (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, which designed to prevent the escape of hazardous drug vapors into the environment during drug reconstitution and administration.

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 is a detailed and comprehensive analysis for global Closed System Transfer Device (CSTD) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Closed System Transfer Device (CSTD) market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global Closed System Transfer Device (CSTD) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global Closed System Transfer Device (CSTD) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global Closed System Transfer Device (CSTD) market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Closed System Transfer Device (CSTD)
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Closed System Transfer Device (CSTD) market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Closed System Transfer Device (CSTD) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Closed Vial Access Devices

Closed Syringe Safety Devices

Closed Bag/Line Access Devices

Market segment by Application

Hospital

Clinic

Major players covered

BD Medical, Inc

Equashield

ICU Medical

Simplivia Healthcare Ltd.

Corvida Medical

B. Braun

Yukon Medical

JMS

Caragen Ltd.

Epic Medical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Closed System Transfer Device (CSTD) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Closed System Transfer Device (CSTD), with price, sales quantity, revenue, and global market share of Closed System Transfer Device (CSTD) from 2020 to 2025.

Chapter 3, the Closed System Transfer Device (CSTD) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Closed System Transfer Device (CSTD) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Closed System Transfer Device (CSTD) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Closed System Transfer Device (CSTD).

Chapter 14 and 15, to describe Closed System Transfer Device (CSTD) sales channel,

distributors, customers, research findings and conclusion.

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