

Closed System Drug Transfer Device (CSTD) Market By Type (Membrane to membrane, Needleless) , By Component (Barrier type CSTDs, Air cleaning CSTDs) By End user (Hospitals and Clinics, Oncology Centers, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Closed System Drug Transfer Device (CSTD) Market

The closed system drug transfer device (CSTD) market was valued at \$0.8 billion in 2023 and is projected to reach \$3.6 billion by 2033, growing at a CAGR of 15.7% from 2024 to 2033.

A closed system drug transfer device (CSTD) is a medical equipment which prevents contact between the inner environment of a system and the outer surroundings. CSTD forbids the entry of contaminants from the surroundings into medical equipment or system and prohibits the evasion of hazardous chemicals or vapors from the system to the external environment. These devices are critical for the safety of both patients and the medical professionals working in a hospital setting from probable cytotoxic or teratogenic agents.

With increasing prevalence of cancer and other chronic diseases, the adoption of CSTD is becoming essential in most healthcare settings, hence driving the growth of the market. In addition, implementation of regulatory mandates by several governing bodies such as Occupational Safety and Health Administration and the United States Pharmacopeia is boosting the demand for CSTDs. The integration of CSTDs with automation & robotics is a trend gaining significant prominence in pharmacies and drug

preparation facilities t%li%ensure efficient handling and usage of hazardous chemicals.

However, technical hurdles associated with the compatibility of CSTDs with diverse sizes of syringes, drug vials, and infusion systems pose the risk of malfunctions and hamper the development of the closed system drug transfer device (CSTD) market. Moreover, the usage of CSTDs requires high proficiency and specialized training, which is usually resource-intensive and laborious. This hampers the market growth. Contrarily, the exponentially rising cases of cancer are anticipated t%li%present lucrative growth opportunities for the market. The number of cancer cases are expected t%li%increase at the rate of 30 million new cases per year by 2040, thereby necessitating the use of CSTDs in hospitals.

Segment Review

The closed system drug transfer device (CSTD) market is segmented int%li%type, component, end user, and region. On the basis of type, the market is bifurcated int%li%membrane t%li%membrane and needleless. Depending on component, it is divided int%li%barrier type CSTDs and air cleaning CSTDs. As per end user, it is categorized int%li%hospitals & clinics, oncology centers, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of type, the membrane t%li%membrane segment dominates the closed system drug transfer device (CSTD) market.

As per end user, the hospitals & clinics segment holds a high share of the market.

Region wise, North America is the major revenue generator of the closed system drug transfer device (CSTD) market.

Competition Analysis

The key players operating in the global closed system drug transfer device (CSTD) market include B. Braun Holding GmbH & Co. KG, Baxter International, Becton, Dickinson and Company, Caragen Ltd., Corvida Medical, Equashield, FIMI Opportunity Funds (Simplivia Healthcare), ICU Medical, JCB C%li%Ltd., and Yukon Medical. These major players have adopted various key development strategies such as business

expansion, new product launches, and partnerships, to strengthen their foothold in the competitive market.

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Regulatory Guidelines

Additional company profiles with specific client's interest

Average Selling Price Analysis / Price Point Analysis

Historic market data

Reimbursement Scenario

Key Market Segments

By Component

Barrier type CSTDs

Air cleaning CSTDs

By End User

Hospitals and Clinics

Oncology Centers

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

By Type

Membrane to membrane

Needleless

Key Market Players

B. Braun Holding GmbH & Co. KG

Baxter International

Becton, Dickinson and Company

Caragen Ltd.

Corvida Medical

Equashield

FIMI Opportunity Funds (Simplivia Healthcare)

ICU Medical

JCB C%li%Ltd.

Yukon Medical

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: AUTORADIOGRAPHY FILMS MARKET, BY PRODUCT

- 4.1. Market Overview
 - 4.1.1 Market Size and Forecast, By Product
- 4.2. Nuclear Emulsion
 - 4.2.1. Key Market Trends, Growth Factors and Opportunities

- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. X-Ray Film
 - 4.3.1. Key Market Trends, Growth Factors and Opportunities
 - 4.3.2. Market Size and Forecast, By Region
 - 4.3.3. Market Share Analysis, By Country
- 4.4. Others
 - 4.4.1. Key Market Trends, Growth Factors and Opportunities
 - 4.4.2. Market Size and Forecast, By Region
 - 4.4.3. Market Share Analysis, By Country

CHAPTER 5: AUTORADIOGRAPHY FILMS MARKET, BY APPLICATION

- 5.1. Market Overview
 - 5.1.1 Market Size and Forecast, By Application
- 5.2. Blotting
 - 5.2.1. Key Market Trends, Growth Factors and Opportunities
 - 5.2.2. Market Size and Forecast, By Region
 - 5.2.3. Market Share Analysis, By Country
- 5.3. Sequencing
 - 5.3.1. Key Market Trends, Growth Factors and Opportunities
 - 5.3.2. Market Size and Forecast, By Region
 - 5.3.3. Market Share Analysis, By Country
- 5.4. Others
 - 5.4.1. Key Market Trends, Growth Factors and Opportunities
 - 5.4.2. Market Size and Forecast, By Region
 - 5.4.3. Market Share Analysis, By Country

CHAPTER 6: AUTORADIOGRAPHY FILMS MARKET, BY END USER

- 6.1. Market Overview
 - 6.1.1 Market Size and Forecast, By End User
- 6.2. Pharmaceutical And Biotechnology Companies
 - 6.2.1. Key Market Trends, Growth Factors and Opportunities
 - 6.2.2. Market Size and Forecast, By Region
 - 6.2.3. Market Share Analysis, By Country
- 6.3. Hospitals And Clinics
 - 6.3.1. Key Market Trends, Growth Factors and Opportunities
 - 6.3.2. Market Size and Forecast, By Region

6.3.3. Market Share Analysis, By Country

6.4. Others

6.4.1. Key Market Trends, Growth Factors and Opportunities

6.4.2. Market Size and Forecast, By Region

6.4.3. Market Share Analysis, By Country

CHAPTER 7: AUTORADIOGRAPHY FILMS MARKET, BY REGION

7.1. Market Overview

7.1.1 Market Size and Forecast, By Region

7.2. North America

7.2.1. Key Market Trends and Opportunities

7.2.2. Market Size and Forecast, By Product

7.2.3. Market Size and Forecast, By Application

7.2.4. Market Size and Forecast, By End User

7.2.5. Market Size and Forecast, By Country

7.2.6. U.S. Autoradiography Films Market

7.2.6.1. Market Size and Forecast, By Product

7.2.6.2. Market Size and Forecast, By Application

7.2.6.3. Market Size and Forecast, By End User

7.2.7. Canada Autoradiography Films Market

7.2.7.1. Market Size and Forecast, By Product

7.2.7.2. Market Size and Forecast, By Application

7.2.7.3. Market Size and Forecast, By End User

7.2.8. Mexico Autoradiography Films Market

7.2.8.1. Market Size and Forecast, By Product

7.2.8.2. Market Size and Forecast, By Application

7.2.8.3. Market Size and Forecast, By End User

7.3. Europe

7.3.1. Key Market Trends and Opportunities

7.3.2. Market Size and Forecast, By Product

7.3.3. Market Size and Forecast, By Application

7.3.4. Market Size and Forecast, By End User

7.3.5. Market Size and Forecast, By Country

7.3.6. Germany Autoradiography Films Market

7.3.6.1. Market Size and Forecast, By Product

7.3.6.2. Market Size and Forecast, By Application

7.3.6.3. Market Size and Forecast, By End User

7.3.7. France Autoradiography Films Market

- 7.3.7.1. Market Size and Forecast, By Product
- 7.3.7.2. Market Size and Forecast, By Application
- 7.3.7.3. Market Size and Forecast, By End User
- 7.3.8. UK Autoradiography Films Market
 - 7.3.8.1. Market Size and Forecast, By Product
 - 7.3.8.2. Market Size and Forecast, By Application
 - 7.3.8.3. Market Size and Forecast, By End User
- 7.3.9. Italy Autoradiography Films Market
 - 7.3.9.1. Market Size and Forecast, By Product
 - 7.3.9.2. Market Size and Forecast, By Application
 - 7.3.9.3. Market Size and Forecast, By End User
- 7.3.10. Spain Autoradiography Films Market
 - 7.3.10.1. Market Size and Forecast, By Product
 - 7.3.10.2. Market Size and Forecast, By Application
 - 7.3.10.3. Market Size and Forecast, By End User
- 7.3.11. Rest of Europe Autoradiography Films Market
 - 7.3.11.1. Market Size and Forecast, By Product
 - 7.3.11.2. Market Size and Forecast, By Application
 - 7.3.11.3. Market Size and Forecast, By End User
- 7.4. Asia-Pacific
 - 7.4.1. Key Market Trends and Opportunities
 - 7.4.2. Market Size and Forecast, By Product
 - 7.4.3. Market Size and Forecast, By Application
 - 7.4.4. Market Size and Forecast, By End User
 - 7.4.5. Market Size and Forecast, By Country
 - 7.4.6. Japan Autoradiography Films Market
 - 7.4.6.1. Market Size and Forecast, By Product
 - 7.4.6.2. Market Size and Forecast, By Application
 - 7.4.6.3. Market Size and Forecast, By End User
 - 7.4.7. China Autoradiography Films Market
 - 7.4.7.1. Market Size and Forecast, By Product
 - 7.4.7.2. Market Size and Forecast, By Application
 - 7.4.7.3. Market Size and Forecast, By End User
 - 7.4.8. India Autoradiography Films Market
 - 7.4.8.1. Market Size and Forecast, By Product
 - 7.4.8.2. Market Size and Forecast, By Application
 - 7.4.8.3. Market Size and Forecast, By End User
 - 7.4.9. Australia Autoradiography Films Market
 - 7.4.9.1. Market Size and Forecast, By Product

- 7.4.9.2. Market Size and Forecast, By Application
- 7.4.9.3. Market Size and Forecast, By End User
- 7.4.10. South Korea Autoradiography Films Market
 - 7.4.10.1. Market Size and Forecast, By Product
 - 7.4.10.2. Market Size and Forecast, By Application
 - 7.4.10.3. Market Size and Forecast, By End User
- 7.4.11. Rest of Asia-Pacific Autoradiography Films Market
 - 7.4.11.1. Market Size and Forecast, By Product
 - 7.4.11.2. Market Size and Forecast, By Application
 - 7.4.11.3. Market Size and Forecast, By End User
- 7.5. LAMEA
 - 7.5.1. Key Market Trends and Opportunities
 - 7.5.2. Market Size and Forecast, By Product
 - 7.5.3. Market Size and Forecast, By Application
 - 7.5.4. Market Size and Forecast, By End User
 - 7.5.5. Market Size and Forecast, By Country
 - 7.5.6. Brazil Autoradiography Films Market
 - 7.5.6.1. Market Size and Forecast, By Product
 - 7.5.6.2. Market Size and Forecast, By Application
 - 7.5.6.3. Market Size and Forecast, By End User
 - 7.5.7. Saudi Arabia Autoradiography Films Market
 - 7.5.7.1. Market Size and Forecast, By Product
 - 7.5.7.2. Market Size and Forecast, By Application
 - 7.5.7.3. Market Size and Forecast, By End User
 - 7.5.8. South Africa Autoradiography Films Market
 - 7.5.8.1. Market Size and Forecast, By Product
 - 7.5.8.2. Market Size and Forecast, By Application
 - 7.5.8.3. Market Size and Forecast, By End User
 - 7.5.9. Rest of LAMEA Autoradiography Films Market
 - 7.5.9.1. Market Size and Forecast, By Product
 - 7.5.9.2. Market Size and Forecast, By Application
 - 7.5.9.3. Market Size and Forecast, By End User

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Top Winning Strategies
- 8.3. Product Mapping of Top 10 Player
- 8.4. Competitive Dashboard

8.5. Competitive Heatmap

8.6. Top Player Positioning, 2023

CHAPTER 9: COMPANY PROFILES

9.1. Thermo Fisher Scientific Inc.

9.1.1. Company Overview

9.1.2. Key Executives

9.1.3. Company Snapshot

9.1.4. Operating Business Segments

9.1.5. Product Portfolio

9.1.6. Business Performance

9.1.7. Key Strategic Moves and Developments

9.2. FUJIFILM Corporation

9.2.1. Company Overview

9.2.2. Key Executives

9.2.3. Company Snapshot

9.2.4. Operating Business Segments

9.2.5. Product Portfolio

9.2.6. Business Performance

9.2.7. Key Strategic Moves and Developments

9.3. Carestream

9.3.1. Company Overview

9.3.2. Key Executives

9.3.3. Company Snapshot

9.3.4. Operating Business Segments

9.3.5. Product Portfolio

9.3.6. Business Performance

9.3.7. Key Strategic Moves and Developments

9.4. LabScientific

9.4.1. Company Overview

9.4.2. Key Executives

9.4.3. Company Snapshot

9.4.4. Operating Business Segments

9.4.5. Product Portfolio

9.4.6. Business Performance

9.4.7. Key Strategic Moves and Developments

9.5. Danaher Corporation

9.5.1. Company Overview

- 9.5.2. Key Executives
- 9.5.3. Company Snapshot
- 9.5.4. Operating Business Segments
- 9.5.5. Product Portfolio
- 9.5.6. Business Performance
- 9.5.7. Key Strategic Moves and Developments
- 9.6. Advansta INC
 - 9.6.1. Company Overview
 - 9.6.2. Key Executives
 - 9.6.3. Company Snapshot
 - 9.6.4. Operating Business Segments
 - 9.6.5. Product Portfolio
 - 9.6.6. Business Performance
 - 9.6.7. Key Strategic Moves and Developments
- 9.7. PerkinElmer
 - 9.7.1. Company Overview
 - 9.7.2. Key Executives
 - 9.7.3. Company Snapshot
 - 9.7.4. Operating Business Segments
 - 9.7.5. Product Portfolio
 - 9.7.6. Business Performance
 - 9.7.7. Key Strategic Moves and Developments
- 9.8. Bio-Rad Laboratories, Inc
 - 9.8.1. Company Overview
 - 9.8.2. Key Executives
 - 9.8.3. Company Snapshot
 - 9.8.4. Operating Business Segments
 - 9.8.5. Product Portfolio
 - 9.8.6. Business Performance
 - 9.8.7. Key Strategic Moves and Developments
- 9.9. Merck KGaA
 - 9.9.1. Company Overview
 - 9.9.2. Key Executives
 - 9.9.3. Company Snapshot
 - 9.9.4. Operating Business Segments
 - 9.9.5. Product Portfolio
 - 9.9.6. Business Performance
 - 9.9.7. Key Strategic Moves and Developments
- 9.10. Santa Cruz Biotechnology, Inc.

- 9.10.1. Company Overview
- 9.10.2. Key Executives
- 9.10.3. Company Snapshot
- 9.10.4. Operating Business Segments
- 9.10.5. Product Portfolio
- 9.10.6. Business Performance
- 9.10.7. Key Strategic Moves and Developments

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