

U.S. Thoracic Catheter Market Size, Share & Trends Analysis Report By Material (PVC, Silicone), By Product Type, By End Use, By Application, And Segment Forecasts, 2025 - 2033

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Abstracts

The U.S. thoracic catheter market size was estimated at USD 164.28 million in 2024 and is projected to reach USD 269.05 million by 2033, growing at a CAGR of 5.73% from 2025 to 2033. This growth is driven by the rising prevalence of respiratory disorders, traumatic injuries, and postoperative complications that require efficient thoracic drainage solutions, along with the increasing demand for minimally invasive procedures that improve patient recovery times.

Advancements in catheter materials, such as silicone-based and antimicrobial-coated designs, are further enhancing safety and clinical outcomes, supporting higher adoption across hospitals and specialty clinics.

Chronic obstructive pulmonary disease is a significant driver of the U.S. thoracic catheter industry, as the condition often leads to complications such as pneumothorax, pleural effusion, and severe respiratory distress that require timely thoracic drainage. As COPD prevalence continues to rise due to aging populations, prolonged exposure to environmental pollutants, and high smoking rates, healthcare facilities are increasingly relying on thoracic catheters to manage these acute exacerbations and improve patient outcomes. Thoracic catheters play a critical role in relieving trapped air or fluid in the pleural space, enabling better lung expansion and respiratory function in COPD patients. The growing clinical need for efficient, minimally invasive drainage solutions in emergency care, intensive care units, and pulmonology practices directly supports higher utilization of advanced thoracic catheter systems, thereby accelerating overall market growth.

Traumatic injuries are a major factor driving the growth of the U.S. thoracic catheter industry, as chest trauma frequently leads to life-threatening conditions such as pneumothorax, hemothorax, and pleural effusion that require immediate thoracic drainage. Road accidents, falls, sports-related injuries, and workplace trauma often damage the ribs, lungs, or pleural cavity, creating an urgent need for chest tube placement to restore respiratory function and stabilize the patient. With trauma cases remaining a leading cause of emergency department admissions, hospitals increasingly depend on thoracic catheters for rapid decompression and effective fluid or air evacuation. The rise in high-impact injuries, coupled with improved trauma care protocols and expanding emergency medical services, is boosting the adoption of advanced catheter designs that offer safer insertion, lower infection risk, and quicker patient management.

According to the National Highway Traffic Safety Administration (NHTSA), an estimated 17,140 people lost their lives in motor vehicle crashes from January through June 2025, down from 18,680 fatalities during the same period in 2024.

U.S. Thoracic Catheter Market Report Segmentation

This report forecasts revenue growth at the country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. thoracic catheter market report based on the material, product type, application, and end-use:

Product Type Outlook (Revenue, USD Million, 2021 - 2033)

Thoracostomy Tubes

Pleural Drainage Catheters

Others

Material Outlook (Revenue, USD Million, 2021 - 2033)

Silicone

Polyurethane

PVC

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

Pneumothorax

Pleural Effusion

Hemothorax

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals

Specialty Clinics

Ambulatory Surgical Centers (ASCs)

Others

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
 - 1.1.1. Material
 - 1.1.2. Product Type
 - 1.1.3. Application
 - 1.1.4. End-use
 - 1.1.5. Regional scope
 - 1.1.6. Estimates and forecast timeline
- 1.2. Research Methodology
- 1.3. Information Procurement
 - 1.3.1. Purchased database
 - 1.3.2. GVR's internal database
 - 1.3.3. Secondary sources
 - 1.3.4. Primary research
 - 1.3.5. Details of primary research
- 1.4. Information or Data Analysis
 - 1.4.1. Data analysis models
- 1.5. Market Formulation & Validation
- 1.6. Model Details
 - 1.6.1. Commodity price analysis (Model 1)
 - 1.6.2. Approach 1: Commodity flow approach
- 1.7. List of Secondary Sources
- 1.8. List of Primary Sources
- 1.9. Objectives

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
 - 2.2.1. Material outlook
 - 2.2.2. Type outlook
 - 2.2.3. Application outlook
 - 2.2.4. End use outlook
 - 2.2.5. Regional outlook
- 2.3. Competitive Insights

CHAPTER 3. U.S. THORACIC CATHETER MARKET VARIABLES, TRENDS & SCOPE

3.1. Market Lineage Outlook

- 3.1.1. Parent Market Outlook
- 3.1.2. Related/ancillary Market Outlook

3.2. Market Dynamics

3.2.1. Market Driver Analysis

- 3.2.1.1. Increasing prevalence of respiratory and thoracic conditions
- 3.2.1.2. Increasing number of thoracic surgeries and minimally invasive procedures
- 3.2.1.3. Technological innovation

3.2.2. Market Restraint Analysis

- 3.2.2.1. Risk of complications and infections
- 3.2.2.2. High cost of advanced devices

3.2.3. Market Challenge Analysis

- 3.2.3.1. Availability of alternative treatments
- 3.2.3.2. Regulatory and compliance barriers

3.2.4. Market Opportunity Analysis

- 3.2.4.1. Rising demand for minimally invasive procedures
- 3.2.4.2. Expanding healthcare infrastructure in emerging markets

3.3. U.S. Thoracic Catheter Market Analysis Tools

3.3.1. Industry Analysis – Porter's Five Forces

- 3.3.1.1. Supplier power
- 3.3.1.2. Buyer power
- 3.3.1.3. Substitution threat
- 3.3.1.4. Threat of new entrant
- 3.3.1.5. Competitive rivalry

3.3.2. PESTEL Analysis

- 3.3.2.1. Political landscape
- 3.3.2.2. Technological landscape
- 3.3.2.3. Economic landscape

CHAPTER 4. U.S. THORACIC CATHETER MARKET: MATERIAL ESTIMATES & TREND ANALYSIS

4.1. U.S. Thoracic Catheter Market: Material Dashboard

4.2. U.S. Thoracic Catheter Market: Material Movement Analysis

4.3. U.S. Thoracic Catheter Market Size & Forecasts and Trend Analysis, by Material, 2021 to 2033 (USD Million)

4.3.1. PVC

4.3.1.1. PVC market estimates and forecast 2021 to 2033 (USD Million)

4.3.2. Silicone

4.3.2.1. Silicone market estimates and forecast 2021 to 2033 (USD Million)

4.3.3. Polyurethane

4.3.3.1. Polyurethane market estimates and forecast 2021 to 2033 (USD Million)

4.3.4. Others

4.3.4.1. Others market estimates and forecast 2021 to 2033 (USD Million)

CHAPTER 5. U.S. THORACIC CATHETER MARKET: PRODUCT TYPE ESTIMATES & TREND ANALYSIS

5.1. U.S. Thoracic Catheter Market: Product Type Dashboard

5.2. U.S. Thoracic Catheter Market: Product Type Movement Analysis

5.3. U.S. Thoracic Catheter Market Size & Forecasts and Trend Analysis, by Product Type, 2021 to 2033 (USD Million)

5.3.1. Thoracostomy Tubes

5.3.1.1. Thoracostomy tubes market estimates and forecast 2021 to 2033 (USD Million)

5.3.2. Pleural Drainage Catheters

5.3.2.1. Pleural drainage catheters market estimates and forecast 2021 to 2033 (USD Million)

5.3.3. Others

5.3.3.1. Others market estimates and forecast 2021 to 2033 (USD Million)

CHAPTER 6. U.S. THORACIC CATHETER MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

6.1. U.S. Thoracic Catheter Market: Application Dashboard

6.2. U.S. Thoracic Catheter Market: Application Movement Analysis

6.3. U.S. Thoracic Catheter Market Size & Forecasts and Trend Analysis, by Application, 2021 to 2033 (USD Million)

6.3.1. Pneumothorax

6.3.1.1. Pneumothorax market estimates and forecast 2021 to 2033 (USD Million)

6.3.2. Pleural Effusion

6.3.2.1. Pleural effusion market estimates and forecast 2021 to 2033 (USD Million)

6.3.3. Hemothorax

6.3.3.1. Hemothorax market estimates and forecast 2021 to 2033 (USD Million)

6.3.4. Others

6.3.4.1. Others market estimates and forecast 2021 to 2033 (USD Million)

CHAPTER 7. U.S. THORACIC CATHETER MARKET: END USE ESTIMATES & TREND ANALYSIS

7.1. U.S. Thoracic Catheter Market: End Use Dashboard

7.2. U.S. Thoracic Catheter Market: End Use Movement Analysis

7.3. U.S. Thoracic Catheter Market Size & Forecasts and Trend Analysis, by End Use, 2021 to 2033 (USD Million)

7.3.1. Hospitals

7.3.1.1. Hospitals market estimates and forecast 2021 to 2033 (USD Million)

7.3.2. Specialty Clinics

7.3.2.1. Specialty clinics market estimates and forecast 2021 to 2033 (USD Million)

7.3.3. Ambulatory Surgical Centers (ASCs)

7.3.3.1. Ambulatory Surgical Centers (ASCs) market estimates and forecast 2021 to 2033 (USD Million)

7.3.4. Others

7.3.4.1. Others market estimates and forecast 2021 to 2033 (USD Million)

CHAPTER 8. COMPETITIVE LANDSCAPE

8.1. Recent Developments & Impact Analysis, By Key Market Participants

8.2. Company/Competition Categorization

8.2.1. Innovators

8.3. Vendor Landscape

8.3.1. List of key distributors and channel partners

8.3.2. Key company market share analysis, 2024

8.3.3. Teleflex Incorporated

8.3.3.1. Company overview

8.3.3.2. Financial performance

8.3.3.3. Product benchmarking

8.3.3.4. Strategic initiatives

8.3.4. Smiths Medical (ICU Medical, Inc.)

8.3.4.1. Company overview

8.3.4.2. Financial performance

8.3.4.3. Product benchmarking

8.3.4.4. Strategic initiatives

8.3.5. B. Braun Melsungen AG

8.3.5.1. Company overview

- 8.3.5.2. Financial performance
- 8.3.5.3. Product benchmarking
- 8.3.5.4. Strategic initiatives
- 8.3.6. Vygon SA
 - 8.3.6.1. Company overview
 - 8.3.6.2. Financial performance
 - 8.3.6.3. Product benchmarking
 - 8.3.6.4. Strategic initiatives
- 8.3.7. Cook Medical
 - 8.3.7.1. Company overview
 - 8.3.7.2. Financial performance
 - 8.3.7.3. Product benchmarking
 - 8.3.7.4. Strategic initiatives
- 8.3.8. Terumo Corporation
 - 8.3.8.1. Company overview
 - 8.3.8.2. Financial performance
 - 8.3.8.3. Product benchmarking
 - 8.3.8.4. Strategic initiatives
- 8.3.9. Nipro Corporation
 - 8.3.9.1. Company overview
 - 8.3.9.2. Financial performance
 - 8.3.9.3. Product benchmarking
 - 8.3.9.4. Strategic initiatives
- 8.3.10. Asahi Kasei Corporation
 - 8.3.10.1. Company overview
 - 8.3.10.2. Financial performance
 - 8.3.10.3. Product benchmarking
 - 8.3.10.4. Strategic initiatives
- 8.3.11. Becton, Dickinson and Company
 - 8.3.11.1. Company overview
 - 8.3.11.2. Financial performance
 - 8.3.11.3. Product benchmarking
 - 8.3.11.4. Strategic initiatives
- 8.3.12. Dongguan Jiajie Medical Tech Co., Ltd.
 - 8.3.12.1. Company overview
 - 8.3.12.2. Financial performance
 - 8.3.12.3. Product benchmarking
 - 8.3.12.4. Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of abbreviations

Table 3 U.S. thoracic catheter market, by material, 2021 - 2033 (USD Million)

Table 4 U.S. thoracic catheter market, by product type, 2021 - 2033 (USD Million)

Table 5 U.S. thoracic catheter market, by application, 2021 - 2033 (USD Million)

Table 6 U.S. thoracic catheter market, by end-use, 2021 - 2033 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 U.S. Thoracic catheter market segmentation
- Fig. 2 Market research process
- Fig. 3 Information procurement
- Fig. 4 Primary research pattern
- Fig. 5 Market research approaches
- Fig. 6 Value chain-based sizing & forecasting
- Fig. 7 QFD modeling for market share assessment
- Fig. 8 Market formulation & validation
- Fig. 9 U.S. Thoracic catheter market outlook, 2024 (USD Million)
- Fig. 10 Market trends & outlook
- Fig. 11 Market driver relevance analysis (Current & future impact)
- Fig. 12 Market restraint relevance analysis (Current & future impact)
- Fig. 13 U.S. Thoracic catheter product type market share analysis, 2024 - 2033 (USD Million)
- Fig. 14 U.S. Thoracic catheter product type market: Segment dashboard
- Fig. 15 Thoracostomy tubes market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 16 Pleural drainage catheters market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 17 Others market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 18 U.S. Thoracic catheter material market share analysis, 2024 - 2033 (USD Million)
- Fig. 19 U.S. Thoracic catheter material market: Segment dashboard
- Fig. 20 Polyurethane market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 21 PVC market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 22 Silicone market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 23 Others market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 24 U.S. Thoracic catheter product application market share analysis, 2024 - 2033 (USD Million)
- Fig. 25 U.S. Thoracic catheter product application market: Segment dashboard
- Fig. 26 Pneumothorax market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 27 Pleural effusion market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Million)

Fig. 28 Hemothorax market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 29 Others market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 30 U.S. Thoracic catheter end use market share analysis, 2024 - 2033 (USD Million)

Fig. 31 U.S. Thoracic catheter end use market: Segment dashboard

Fig. 32 Hospitals market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 33 Specialty clinics market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 34 Ambulatory Surgical Centers (ASCs) market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 35 Others market revenue estimates and forecasts, 2021 - 2033 (USD Million)

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