

Thoracic Surgery Devices Market Outlook 2025-2034: Market Share, and Growth Analysis By Product (Forceps, Graspers, Clamps And Staplers, Scissors, Spreaders, Needle Holders, Other Products), By Surgery Type (Lobectomy, Wedge Resection, Pneumonectomy, Other Surgery Types), By End-User

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Abstracts

The Thoracic Surgery Devices Market is valued at USD 11.7 billion in 2025 and is projected to grow at a CAGR of 11.2% to reach USD 30.4 billion by 2034. The Thoracic Surgery Devices Market plays a critical role in treating conditions affecting the chest, lungs, esophagus, and mediastinum. As global incidences of thoracic diseases—including lung cancer, chronic obstructive pulmonary disease (COPD), and trauma-related injuries—continue to rise, there is a growing demand for advanced surgical solutions that offer precision, safety, and minimally invasive approaches. The market includes a wide range of devices such as stapling systems, electro-surgical instruments, thoroscopes, closure devices, energy-based tools, and robotic surgical systems. Increasing preference for video-assisted thoracoscopic surgery (VATS) and robotic-assisted procedures is reshaping the landscape, as both patients and providers seek faster recovery times, lower complication rates, and improved outcomes. Technological advancements and innovations in instrument ergonomics, visualization, and integration with surgical navigation tools are key factors accelerating market evolution. The thoracic surgery devices market witnessed significant activity, driven by higher diagnosis rates, expanded access to advanced healthcare infrastructure, and evolving clinical protocols for thoracic interventions. Hospitals and surgical centers increasingly adopted robotic platforms and high-definition visualization systems for precise lung resections, esophagectomies, and biopsy procedures. The surge in minimally invasive procedures also pushed demand for single-use devices and

enhanced electrosurgical units. Major manufacturers focused on portfolio diversification through acquisitions and product innovation, targeting compact, multifunctional, and AI-integrated surgical instruments. Meanwhile, healthcare systems in emerging economies ramped up investments in thoracic care capabilities, leading to greater adoption of diagnostic imaging and preoperative planning tools. Training and simulation for thoracic surgeons also expanded, supported by academic partnerships and online modules for emerging technologies like robotic thoracoscopy and smart staplers. The thoracic surgery devices market is expected to continue its transition toward precision-based, patient-centric care. Future developments will likely include the integration of augmented reality (AR) and artificial intelligence (AI) for preoperative planning, intraoperative guidance, and postoperative monitoring. Enhanced robotic systems with greater articulation and haptic feedback will become more accessible to mid-sized and rural hospitals. Biocompatible and bioresorbable materials will find increased usage in closure and hemostatic devices, minimizing long-term complications. As population aging and air pollution continue to drive thoracic disease burdens, healthcare providers will prioritize surgical efficiency and recovery outcomes, creating new opportunities for smart tools and AI-driven analytics. However, cost barriers, surgeon learning curves, and regulatory approval timelines for advanced systems will remain as core challenges to widespread adoption, especially in cost-sensitive markets.

Key Insights Thoracic Surgery Devices Market

Robotic-assisted thoracic surgeries are gaining momentum globally, enabling surgeons to perform complex resections with enhanced precision, reduced trauma, and quicker patient recovery.

Integration of 3D visualization and augmented reality tools is improving surgical planning, real-time navigation, and accuracy during thoracic interventions.

Rise in outpatient thoracic procedures is creating demand for compact, minimally invasive instruments that can be used in ambulatory and same-day surgery centers.

Biodegradable implants and closure systems are becoming popular as they reduce the risk of long-term complications and negate the need for device removal surgeries.

Smart stapling devices with tissue feedback and analytics capabilities are

entering operating rooms, enhancing safety and reducing intraoperative errors.

Increasing incidence of lung cancer, thoracic trauma, and esophageal disorders is significantly boosting the need for specialized surgical interventions and associated devices.

Shift toward minimally invasive techniques is accelerating the demand for advanced electrosurgical, stapling, and thoracoscopic tools.

Expanding healthcare infrastructure and surgical expertise in emerging markets are supporting broader adoption of thoracic surgery technologies.

Ongoing innovations in robotics, imaging, and surgical AI are enhancing procedural outcomes and enabling higher surgeon confidence and efficiency.

The biggest challenge in the thoracic surgery devices market lies in the high cost and complex learning curve of advanced robotic and image-guided systems, which limits accessibility for smaller hospitals and creates disparities in patient access to state-of-the-art surgical care.

Thoracic Surgery Devices Market Segmentation

By Product

Forceps

Graspers

Clamps And Staplers

Scissors

Spreaders

Needle Holders

Other Products

By Surgery Type

Lobectomy

Wedge Resection

Pneumonectomy

Other Surgery Types

By End-User

Hospitals

Ambulatory Surgical Centers

Other End-Users

Key Companies Analysed

Medtronic plc

Johnson & Johnson (Ethicon, DePuy Synthes)

Zimmer Biomet Holdings, Inc.

BD (Becton, Dickinson and Company)

Stryker Corporation

Teleflex Incorporated

CONMED Corporation

Atricure, Inc.

Intuitive Surgical, Inc.

Abbott Laboratories

Thoracic Surgery Devices Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Thoracic Surgery Devices Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Thoracic Surgery Devices market data and outlook to 2034

United States

Canada

Mexico

Europe — Thoracic Surgery Devices market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Thoracic Surgery Devices market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Thoracic Surgery Devices market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Thoracic Surgery Devices market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Thoracic Surgery Devices value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Thoracic Surgery Devices industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Thoracic Surgery Devices Market Report

Global Thoracic Surgery Devices market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Thoracic Surgery Devices trade, costs, and supply chains

Thoracic Surgery Devices market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Thoracic Surgery Devices market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Thoracic Surgery Devices market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Thoracic Surgery Devices supply chain analysis

Thoracic Surgery Devices trade analysis, Thoracic Surgery Devices market price analysis, and Thoracic Surgery Devices supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Thoracic Surgery Devices market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL THORACIC SURGERY DEVICES MARKET SUMMARY, 2025

- 2.1 Thoracic Surgery Devices Industry Overview
 - 2.1.1 Global Thoracic Surgery Devices Market Revenues (In US\$ billion)
- 2.2 Thoracic Surgery Devices Market Scope
- 2.3 Research Methodology

3. THORACIC SURGERY DEVICES MARKET INSIGHTS, 2024-2034

- 3.1 Thoracic Surgery Devices Market Drivers
- 3.2 Thoracic Surgery Devices Market Restraints
- 3.3 Thoracic Surgery Devices Market Opportunities
- 3.4 Thoracic Surgery Devices Market Challenges
- 3.5 Tariff Impact on Global Thoracic Surgery Devices Supply Chain Patterns

4. THORACIC SURGERY DEVICES MARKET ANALYTICS

- 4.1 Thoracic Surgery Devices Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Thoracic Surgery Devices Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Thoracic Surgery Devices Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Thoracic Surgery Devices Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Thoracic Surgery Devices Market
 - 4.5.1 Thoracic Surgery Devices Industry Attractiveness Index, 2025
 - 4.5.2 Thoracic Surgery Devices Supplier Intelligence
 - 4.5.3 Thoracic Surgery Devices Buyer Intelligence
 - 4.5.4 Thoracic Surgery Devices Competition Intelligence
 - 4.5.5 Thoracic Surgery Devices Product Alternatives and Substitutes Intelligence
 - 4.5.6 Thoracic Surgery Devices Market Entry Intelligence

5. GLOBAL THORACIC SURGERY DEVICES MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

5.1 World Thoracic Surgery Devices Market Size, Potential and Growth Outlook, 2024-2034 (\$ billion)

5.1 Global Thoracic Surgery Devices Sales Outlook and CAGR Growth By Product, 2024- 2034 (\$ billion)

5.2 Global Thoracic Surgery Devices Sales Outlook and CAGR Growth By Surgery Type, 2024- 2034 (\$ billion)

5.3 Global Thoracic Surgery Devices Sales Outlook and CAGR Growth By End-User, 2024- 2034 (\$ billion)

5.4 Global Thoracic Surgery Devices Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC THORACIC SURGERY DEVICES INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

6.1 Asia Pacific Thoracic Surgery Devices Market Insights, 2025

6.2 Asia Pacific Thoracic Surgery Devices Market Revenue Forecast By Product, 2024-2034 (USD billion)

6.3 Asia Pacific Thoracic Surgery Devices Market Revenue Forecast By Surgery Type, 2024- 2034 (USD billion)

6.4 Asia Pacific Thoracic Surgery Devices Market Revenue Forecast By End-User, 2024- 2034 (USD billion)

6.5 Asia Pacific Thoracic Surgery Devices Market Revenue Forecast by Country, 2024-2034 (USD billion)

6.5.1 China Thoracic Surgery Devices Market Size, Opportunities, Growth 2024- 2034

6.5.2 India Thoracic Surgery Devices Market Size, Opportunities, Growth 2024- 2034

6.5.3 Japan Thoracic Surgery Devices Market Size, Opportunities, Growth 2024- 2034

6.5.4 Australia Thoracic Surgery Devices Market Size, Opportunities, Growth 2024-2034

7. EUROPE THORACIC SURGERY DEVICES MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Thoracic Surgery Devices Market Key Findings, 2025

7.2 Europe Thoracic Surgery Devices Market Size and Percentage Breakdown By Product, 2024- 2034 (USD billion)

7.3 Europe Thoracic Surgery Devices Market Size and Percentage Breakdown By Surgery Type, 2024- 2034 (USD billion)

7.4 Europe Thoracic Surgery Devices Market Size and Percentage Breakdown By End-User, 2024- 2034 (USD billion)

7.5 Europe Thoracic Surgery Devices Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.5.1 Germany Thoracic Surgery Devices Market Size, Trends, Growth Outlook to 2034

7.5.2 United Kingdom Thoracic Surgery Devices Market Size, Trends, Growth Outlook to 2034

7.5.2 France Thoracic Surgery Devices Market Size, Trends, Growth Outlook to 2034

7.5.2 Italy Thoracic Surgery Devices Market Size, Trends, Growth Outlook to 2034

7.5.2 Spain Thoracic Surgery Devices Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA THORACIC SURGERY DEVICES MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Thoracic Surgery Devices Market Analysis and Outlook By Product, 2024- 2034 (\$ billion)

8.3 North America Thoracic Surgery Devices Market Analysis and Outlook By Surgery Type, 2024- 2034 (\$ billion)

8.4 North America Thoracic Surgery Devices Market Analysis and Outlook By End-User, 2024- 2034 (\$ billion)

8.5 North America Thoracic Surgery Devices Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.5.1 United States Thoracic Surgery Devices Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Canada Thoracic Surgery Devices Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Mexico Thoracic Surgery Devices Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA THORACIC SURGERY DEVICES MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Thoracic Surgery Devices Market Data, 2025

9.2 Latin America Thoracic Surgery Devices Market Future By Product, 2024- 2034 (\$ billion)

9.3 Latin America Thoracic Surgery Devices Market Future By Surgery Type, 2024-2034 (\$ billion)

9.4 Latin America Thoracic Surgery Devices Market Future By End-User, 2024- 2034 (\$ billion)

9.5 Latin America Thoracic Surgery Devices Market Future by Country, 2024- 2034 (\$ billion)

9.5.1 Brazil Thoracic Surgery Devices Market Size, Share and Opportunities to 2034

9.5.2 Argentina Thoracic Surgery Devices Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA THORACIC SURGERY DEVICES MARKET OUTLOOK AND GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Thoracic Surgery Devices Market Statistics By Product, 2024-2034 (USD billion)

10.3 Middle East Africa Thoracic Surgery Devices Market Statistics By Surgery Type, 2024- 2034 (USD billion)

10.4 Middle East Africa Thoracic Surgery Devices Market Statistics By End-User, 2024-2034 (USD billion)

10.5 Middle East Africa Thoracic Surgery Devices Market Statistics by Country, 2024-2034 (USD billion)

10.5.1 Middle East Thoracic Surgery Devices Market Value, Trends, Growth Forecasts to 2034

10.5.2 Africa Thoracic Surgery Devices Market Value, Trends, Growth Forecasts to 2034

11. THORACIC SURGERY DEVICES MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

11.1 Key Companies in Thoracic Surgery Devices Industry

11.2 Thoracic Surgery Devices Business Overview

11.3 Thoracic Surgery Devices Product Portfolio Analysis

11.4 Financial Analysis

11.5 SWOT Analysis

12 APPENDIX

12.1 Global Thoracic Surgery Devices Market Volume (Tons)

- 12.1 Global Thoracic Surgery Devices Trade and Price Analysis
- 12.2 Thoracic Surgery Devices Parent Market and Other Relevant Analysis
- 12.3 Publisher Expertise
- 12.2 Thoracic Surgery Devices Industry Report Sources and Methodology

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