

Heart-lung Machine Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

<https://marketpublishers.com/r/HC40E3B7AB70EN.html>

Date: January 2025

Pages: 130

Price: US\$ 4,850.00 (Single User License)

ID: HC40E3B7AB70EN

Abstracts

The Global Heart-lung Machine Market, valued at USD 369.8 million in 2024, is set to expand significantly, with an expected compound annual growth rate (CAGR) of 4.6% from 2025 to 2034. As cardiovascular diseases rise and organ transplant surgeries increase, the demand for heart-lung machines has surged. These machines are crucial in providing life support during complex surgical procedures, such as cardiac surgeries and organ transplants, where stable blood circulation and oxygenation are vital. Their role in enhancing patient survival rates and improving outcomes is driving widespread adoption across hospitals, clinics, and other healthcare facilities. Technological innovations in heart-lung machines, including more efficient and user-friendly systems, are also propelling market growth. As healthcare systems globally modernize and expand access to advanced treatments, the need for reliable and high-performing heart-lung machines becomes increasingly important.

The market is divided into two main categories: single-roller pump systems and double-roller pump systems. The single-roller pump segment is expected to dominate, growing at a CAGR of 4.3% and reaching USD 337 million by 2034. These pumps are known for their reliability in providing consistent blood flow during surgeries, which is essential for maintaining stable extracorporeal membrane oxygenation (ECMO). Their simple design and cost-effectiveness make them a popular choice in hospitals and healthcare facilities, especially in emerging markets where budget-conscious solutions are often required.

In terms of application, heart-lung machines are primarily used in hospitals and clinics, ambulatory surgical centers, and other medical institutions. The hospitals and clinics segment is anticipated to grow steadily, reaching USD 241.4 million by 2034. These

machines play a key role in critical care, especially during post-transplantation procedures, where they help stabilize patients and reduce the risk of organ rejection. Their effectiveness in supporting immunosuppressive therapies further reinforces their essential presence in hospitals and clinics worldwide.

In the U.S. alone, the heart-lung machine market was valued at USD 139.6 million in 2024 and is projected to grow at a CAGR of 3.9% through 2034. This growth is driven by the high volume of cardiac surgeries, such as coronary artery bypass grafting (CABG) and valve replacements, which require reliable heart-lung machine support. Factors like a strong healthcare infrastructure, favorable reimbursement policies, and ongoing investments in research and development continue to position the U.S. as a leader in the global market. With the increasing incidence of cardiovascular diseases, the demand for heart-lung machines in the U.S. is expected to rise, ensuring the continued growth of this critical market.

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market scope and definitions
- 1.2 Research design
 - 1.2.1 Research approach
 - 1.2.2 Data collection methods
- 1.3 Base estimates and calculations
 - 1.3.1 Base year calculation
 - 1.3.2 Key trends for market estimation
- 1.4 Forecast model
- 1.5 Primary research and validation
 - 1.5.1 Primary sources
 - 1.5.2 Data mining sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Industry impact forces
 - 3.2.1 Growth drivers
 - 3.2.1.1 Increasing prevalence of cardiovascular disease
 - 3.2.1.2 Growing number of organ transplant surgeries
 - 3.2.1.3 Technological advancements in heart-lung machines
 - 3.2.2 Industry pitfalls and challenges
 - 3.2.2.1 High cost of advanced heart-lung machines
- 3.3 Growth potential analysis
- 3.4 Regulatory landscape
- 3.5 Technology landscape
- 3.6 Reimbursement scenario
- 3.7 Gap analysis
- 3.8 Porter's analysis
- 3.9 PESTEL analysis
- 3.10 Future market trends

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company matrix analysis
- 4.3 Company market share analysis
- 4.4 Competitive analysis of major market players
- 4.5 Competitive positioning matrix
- 4.6 Strategy dashboard

CHAPTER 5 MARKET ESTIMATES AND FORECAST, BY TYPE, 2021 - 2034 (\$ MN)

- 5.1 Key trends
- 5.2 Single roller pump
- 5.3 Double roller pump

CHAPTER 6 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2021 - 2034 (\$ MN)

- 6.1 Key trends
- 6.2 Cardiac surgeries
- 6.3 Lung surgeries
- 6.4 Acute respiratory failure treatment
- 6.5 Other applications

CHAPTER 7 MARKET ESTIMATES AND FORECAST, BY END USE, 2021 - 2034 (\$ MN)

- 7.1 Key trends
- 7.2 Hospitals and clinics
- 7.3 Ambulatory surgical centers
- 7.4 Other end users

CHAPTER 8 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 - 2034 (\$ MN)

- 8.1 Key trends
- 8.2 North America
 - 8.2.1 U.S.
 - 8.2.2 Canada

8.3 Europe

8.3.1 Germany

8.3.2 UK

8.3.3 France

8.3.4 Spain

8.3.5 Italy

8.3.6 Netherlands

8.4 Asia Pacific

8.4.1 China

8.4.2 Japan

8.4.3 India

8.4.4 Australia

8.4.5 South Korea

8.5 Latin America

8.5.1 Brazil

8.5.2 Mexico

8.5.3 Argentina

8.6 Middle East and Africa

8.6.1 South Africa

8.6.2 Saudi Arabia

8.6.3 UAE

CHAPTER 9 COMPANY PROFILES

9.1 BRAILE

9.2 Edwards

9.3 ELITE LIFE CARE

9.4 EUROSETS

9.5 FRESenius MEDICAL CARE

9.6 GETINGE

9.7 HEART CARE INDIA CO

9.8 hemovent

9.9 Jarvik HEART

9.10 LivaNova

9.11 Medtronic

9.12 NIPRO

9.13 Palex

9.14 Philips

9.15 TERUMO

I would like to order

Product name: Heart-lung Machine Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

Product link: <https://marketpublishers.com/r/HC40E3B7AB70EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/HC40E3B7AB70EN.html>