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Global Artificial Heart Lung Machines Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Artificial Heart Lung Machines market size is expected to reach $ 408 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

Artificial Heart Lung Machines are critical medical devices used in extracorporeal circulation during surgery, temporarily replacing the functions of the heart and lungs to maintain continuous blood circulation and oxygenation. The system mainly consists of a blood pump, oxygenator, heat exchanger, tubing system, and monitoring modules, which withdraw blood from the body, oxygenate and regulate its temperature, and return it to the patient, providing safe and stable extracorporeal support for cardiac surgeries, complex major vascular procedures, and heart transplants. The core function of artificial heart lung machines is to ensure adequate tissue oxygenation and hemodynamic stability during surgery, minimizing the risks associated with cardiac arrest and hypoperfusion, thereby enhancing surgical safety and postoperative recovery. With the advancement of cardiac surgery, the adoption of minimally invasive techniques, and the promotion of precision perioperative management, artificial heart lung machines have become indispensable auxiliary devices in modern cardiac operations, also playing crucial roles in clinical research, intensive care, and heart transplantation.In 2025, global Artificial Heart Lung Machines production reached approximately 1224 Units and price is about 260 K USD/Unit.The average gross profit margin of this product is 45%.

The artificial heart lung machine market is driven by multiple factors, with the increasing global burden of cardiovascular diseases and the rising number of high-risk surgeries being primary drivers. Population aging and the rising prevalence of chronic heart conditions have increased the demand for cardiac and complex vascular surgeries, providing a stable market foundation for high-performance extracorporeal circulation

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devices. Meanwhile, the rapid development of minimally invasive cardiac procedures, heart transplantation, and complex major vascular surgeries has elevated requirements for device performance and reliability, driving manufacturers to continuously innovate and upgrade products. Clinical studies demonstrate that high-precision artificial heart lung machines significantly improve intraoperative hemodynamic stability, reduce organ ischemia risk, and enhance postoperative recovery, further encouraging hospitals to adopt advanced equipment. Advances in intelligent control, integrated modules, and remote monitoring technologies also create new growth opportunities in the market.

Despite technological maturity, the market faces multiple challenges. Some healthcare institutions lack awareness of the devices' value, resulting in regional disparities in deployment. High equipment costs and disposable consumables, combined with limited hospital budgets, constrain market penetration. Device operation is complex, requiring extensive training and clinical experience, which raises the adoption barrier. Additionally, factors such as blood compatibility, air embolism risk, and potential equipment malfunctions may affect surgical safety, representing inherent risks. Differences in brand performance, modularity, and maintenance convenience may also influence hospital purchasing decisions and market competition.

With the expansion and advancement of cardiac surgery, demand for artificial heart lung machines is trending toward greater intelligence, precision, and safety. Utilization is particularly pronounced in high-risk surgeries, heart transplants, and procedures for elderly patients. The growth of minimally invasive and enhanced recovery surgeries also places higher demands on device performance, controllability, and modular design. In the future, as digital operating rooms and intelligent monitoring systems become more widespread, artificial heart lung machines are expected to achieve deeper integration with surgical workstations, patient monitoring systems, and clinical information platforms, providing real-time support for intraoperative decision-making and enabling more refined perioperative management.

The upstream industry for artificial heart lung machines primarily includes high-precision blood pumps, motor and drive modules, oxygenator materials, heat exchangers, and medical tubing systems. Blood pumps and motor modules are core hardware, directly affecting circulation stability and accuracy. Oxygenator and heat exchanger materials require high standards in blood compatibility, oxygenation efficiency, and temperature regulation, while medical tubing and disposable consumables are critical for safety and biocompatibility. With advancements in medical materials science and microelectronic control technologies, upstream innovation will continue to enhance performance, safety,

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and intelligence, supporting product differentiation and market expansion.

This report studies the global Artificial Heart Lung Machines production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Artificial Heart Lung Machines and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Artificial Heart Lung Machines that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Artificial Heart Lung Machines total production and demand, 2021-2032, (Units)

Global Artificial Heart Lung Machines total production value, 2021-2032, (USD Million)

Global Artificial Heart Lung Machines production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Artificial Heart Lung Machines consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Artificial Heart Lung Machines domestic production, consumption, key domestic manufacturers and share

Global Artificial Heart Lung Machines production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Artificial Heart Lung Machines production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Artificial Heart Lung Machines production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Artificial Heart Lung Machines market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LivaNova (Sorin), Getinge (Maquet),

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Medtronic, Terumo CV Group, Braile Biomedica, Shenzhen Hannuo, Fresenius, Changzheng Medical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Artificial Heart Lung Machines market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Artificial Heart Lung Machines Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Artificial Heart Lung Machines Market, Segmentation by Type:

Single Roller Pump HLM

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Double Roller Pump HLM

Global Artificial Heart Lung Machines Market, Segmentation by Surgical Type:

Open Surgery

Minimally Invasive

Emergency Surgery

Global Artificial Heart Lung Machines Market, Segmentation by End Users:

General Hospitals

Surgical Centers

Other

Global Artificial Heart Lung Machines Market, Segmentation by Application:

Cardiac Surgery

Lung Transplant Operation

Acute Respiratory Failure Treatment

Others

Companies Profiled:

LivaNova (Sorin)

Getinge (Maquet)

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Medtronic

Terumo CV Group

Braile Biomedica

Shenzhen Hannuo

Fresenius

Changzheng Medical

Key Questions Answered:

1. How big is the global Artificial Heart Lung Machines market?
2. What is the demand of the global Artificial Heart Lung Machines market?
3. What is the year over year growth of the global Artificial Heart Lung Machines market?
4. What is the production and production value of the global Artificial Heart Lung Machines market?
5. Who are the key producers in the global Artificial Heart Lung Machines market?
6. What are the growth factors driving the market demand?

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