

Global Cardiopulmonary Bypass Equipment Market Report and Forecast 2024-2032

Market Report | 2023-09-22 | 160 pages | EMR Inc.

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Report description:

Global Cardiopulmonary Bypass Equipment Market Report and Forecast 2024-2032

Global Cardiopulmonary Bypass Equipment Market Outlook

The global cardiopulmonary bypass equipment market size was valued at USD 464.3 million in 2023, driven by the increasing technological advancements in cardiac surgery techniques across the globe. The market size is anticipated to grow at a CAGR of 7.4% during the forecast period of 2024-2032 to achieve a value of USD 883.9 million by 2032.

Cardiopulmonary Bypass Equipment: Introduction

Cardiopulmonary bypass (CPB) equipment, often referred to as heart-lung machines or perfusion systems, is a specialized medical device used during cardiac surgery to temporarily take over the functions of the heart and lungs. It allows surgeons to perform complex cardiac procedures by diverting the patient's blood away from the heart and lungs, oxygenating and filtering it, and then returning it to the patient's body. This temporary support system maintains the patient's circulation and oxygenation while the surgeon operates on the heart or other related structures.

Key Trends in the Global Cardiopulmonary Bypass Equipment Market

Here are some trends that were affecting the cardiopulmonary bypass equipment market:

- **Technological Advancements:** Continuous advancements in technology were driving innovation in cardiopulmonary bypass equipment. These innovations included improvements in the design of heart-lung machines, oxygenators, and monitoring systems. Advancements aimed to enhance safety, reduce the risk of complications, and improve patient outcomes during cardiac surgeries.
- **Minimally Invasive Procedures:** There was a growing trend toward minimally invasive cardiac surgeries, such as minimally invasive coronary artery bypass grafting (CABG) and transcatheter aortic valve replacement (TAVR). These procedures often require specialized equipment, and manufacturers were developing bypass equipment tailored for minimally invasive techniques.
- **Patient-Centric Care:** The focus on patient outcomes and satisfaction continued to influence the market. Equipment designed to reduce trauma, complications, and recovery times for patients undergoing cardiac surgeries was in demand. Patient-centric care also encouraged the development of less invasive approach.
- **Integrated Systems:** The integration of various components within cardiopulmonary bypass systems was a trend. This allowed for

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better control and monitoring of parameters during surgery, streamlined workflow, and reduced the risk of errors.

-□Remote Monitoring and Telemedicine: The COVID-19 pandemic accelerated the adoption of remote monitoring and telemedicine in healthcare. Manufacturers were exploring ways to incorporate remote monitoring and data-sharing capabilities into cardiopulmonary bypass equipment to facilitate real-time collaboration among healthcare professionals.

-□Focus on Safety: Safety was a paramount concern in cardiac surgery. Equipment designed with safety features, such as alarms and fail-safes, helped reduce the risk of complications during cardiopulmonary bypass procedures.

Global Cardiopulmonary Bypass Equipment Market Segmentations

The market can be categorized into type, end user, and region.

Market Breakup by Type

- Single Roller Pump
- Double Roller Pump

Market Breakup by End User

- Hospitals
- Ambulatory Surgical Centres

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Cardiopulmonary Bypass Equipment Market Overview

Here are some key drivers for the cardiopulmonary bypass equipment market:

-□Growing Prevalence of Cardiovascular Diseases: The rising incidence of cardiovascular diseases, including coronary artery disease and valvular heart disease, is a major driver for the cardiopulmonary bypass equipment market. As the population ages and lifestyles contribute to heart-related conditions, the demand for cardiac surgeries increases.

-□Advancements in Cardiac Surgery: Technological advancements in cardiac surgery techniques, such as minimally invasive procedures and robotic-assisted surgeries, are driving the demand for advanced CPB equipment that can support these surgical approaches.

-□Increasing Aging Population: The aging global population is more susceptible to heart diseases, necessitating more cardiac surgeries. The elderly often require complex cardiac procedures that may involve CPB equipment.

-□Rise in Complex Heart Procedures: Surgeons are increasingly performing complex cardiac procedures, including multi-valve surgeries, combined coronary artery bypass grafting (CABG) and valve procedures, and congenital heart defect repairs. These procedures often require advanced CPB technology.

-□Global Expansion of Healthcare Infrastructure: Emerging markets, especially in Asia and Latin America, are witnessing an expansion of healthcare infrastructure. This includes the development of cardiac care centres and hospitals with advanced surgical capabilities, contributing to the growth of the CPB equipment market.

-□Technological Innovations: Ongoing technological advancements in CPB equipment, such as the development of safer and more efficient heart-lung machines, oxygenators, and monitoring systems, drive the market by enhancing patient outcomes and surgical efficiency.

Global Cardiopulmonary Bypass Equipment Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, clinical trials analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:□

- Medtronic

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- LivaNova Plc
- MAQUET Holding
- Abiomed
- Brail Biomedica
- Tianjin Medica
- Terumo Corp
- Senko Medical Instrument Manufacturing Co.
- Technowood Corp
- Sorin

We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

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