

Global Heart Pump Device Market Size Study & Forecast, by Product (Ventricular Assist Devices (LVAD, RVAD, BiVAD, and pVAD), Intra-aortic Balloon Pumps, TAH), by Type (Extracorporeal and Implantable Pumps), by Therapy (Bridge-to-transplant, Destination Therapy) and Regional Forecasts 2025-2035

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Abstracts

The Global Heart Pump Device Market is valued at approximately USD 3.78 billion in 2024 and is anticipated to expand at an impressive CAGR of 21.60% throughout the forecast period of 2025-2035. Heart pump devices, ranging from ventricular assist devices to total artificial hearts, are critical life-sustaining technologies designed to support or completely replace the pumping function of a failing heart. With heart failure cases rising at an alarming rate globally, fueled by the aging population, lifestyle-related cardiovascular diseases, and post-myocardial complications, these devices are becoming indispensable in advanced cardiac care. The growing emphasis on improving survival rates, reducing hospital readmissions, and enhancing patients' quality of life has further propelled adoption across hospitals and transplant centers.

The escalating prevalence of advanced heart failure has triggered surging demand for mechanical circulatory support systems. According to the World Health Organization, cardiovascular diseases continue to remain the leading cause of global mortality, accounting for nearly 18 million deaths annually. This clinical burden has intensified the urgency to deploy sophisticated heart pump technologies as both bridge-to-transplant solutions and long-term therapies for patients ineligible for transplantation. Moreover, ongoing advancements in miniaturization, durability of implantable pumps, and hybrid therapeutic approaches are creating significant opportunities for manufacturers.

However, high device costs, risks of infection and thrombosis, and limited access in low-income regions act as deterrents, challenging widespread adoption.

From a regional perspective, North America currently dominates the heart pump device market, underpinned by its advanced healthcare infrastructure, robust reimbursement frameworks, and the presence of major industry players. The region's leadership is also driven by strong investments in R&D and high rates of heart failure diagnosis and treatment. Europe follows closely, benefiting from structured transplant programs, government support, and rapid adoption of next-generation implantable devices. Meanwhile, Asia Pacific is projected to be the fastest-growing region during 2025–2035, owing to a rapidly aging population, increasing cardiovascular disease prevalence, and rising healthcare expenditure in countries like China, India, and Japan. Additionally, the growing footprint of medical device manufacturers, supportive regulatory reforms, and awareness programs in emerging economies are expected to further accelerate growth in this region.

Major market players included in this report are:

Medtronic plc

Abbott Laboratories

Boston Scientific Corporation

Jarvik Heart Inc.

Getinge AB

Abiomed Inc.

Berlin Heart GmbH

Terumo Corporation

Calon Cardio-Technology Ltd.

CorWave SA

ReliantHeart Inc.

SynCardia Systems LLC

LivaNova PLC

BiVACOR Inc.

CH Biomedical Inc.

Global Heart Pump Device Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Product:

Ventricular Assist Devices (LVAD, RVAD, BiVAD, and pVAD)

Intra-aortic Balloon Pumps

Total Artificial Heart (TAH)

By Type:

Extracorporeal Pumps

Implantable Pumps

By Therapy:

Bridge-to-transplant

Destination Therapy

By Region:**North America**

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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