

# **Centrifugal Blood Pump Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type**

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## **Abstracts**

### **Centrifugal Blood Pumps Market Summary**

#### **Introduction**

Centrifugal blood pumps, available in electronic and mechanical types, support cardiac procedures like CABG (4 million annually) and heart failure management (64 million cases). These pumps reduce hemolysis by 20% and improve survival rates by 15%. The market is driven by rising cardiovascular diseases (530 million cases), aging populations, and transplant surgeries (150,000 annually). Innovations like magnetic levitation and portable ECMO enhance efficiency. The global market is projected to reach between USD 60 million and USD 90 million in 2025, with a CAGR of 4.2% to 6.5% through 2030.

#### **Regional Analysis**

**North America:** The U.S. leads with high heart failure rates, while Canada focuses on transplant care.

**Europe:** Germany, France, and the UK drive demand due to advanced cardiac surgery.

**Asia Pacific:** China sees growth from 50,000 transplants annually, while Japan emphasizes elderly care.

**Rest of the World:** Brazil expands cardiac services, and the Middle East invests in ECMO.

## Application Analysis

Hospitals: Expected growth of 4.3%-6.6%, driven by CABG surgeries. Trends focus on ECMO integration.

Ambulatory Surgical Centers: Projected growth of 4.2%-6.5%, linked to outpatient procedures. Developments emphasize portability.

Specialty Clinics: Anticipated growth of 4.4%-6.7%, suited for heart failure. Advances prioritize precision.

Others: Expected growth of 4.1%-6.4%, covering transplant centers. Trends lean toward cost-efficiency.

## Type Analysis

Electronic: Expected growth of 4.4%-6.7%, valued for smart monitoring. Trends highlight magnetic levitation.

Mechanical: Projected growth of 4.2%-6.5%, key for reliability. Advances focus on durability.

## Key Market Players

Leading firms include Medtronic, offering advanced pumps; Abbott Laboratories, launching CentriMag; Terumo Corporation, enhancing ECMO; Getinge, supporting cardiac care; LivaNova, introducing LifeSPARC; Baxter International, scaling solutions; Braille Biomedica, targeting transplants; Qura, boosting efficiency; 3M, advancing tech; and Spectrum Medical, innovating in pumps.

## Porter's Five Forces Analysis

Threat of New Entrants: Moderate, due to high regulatory and capital barriers, though niche innovators can enter.

Threat of Substitutes: Low, as centrifugal pumps are essential for cardiac support with no direct alternatives.

Bargaining Power of Buyers: Moderate, with facilities seeking reliable, cost-effective pumps, though clinical needs limit options.

Bargaining Power of Suppliers: Low, with multiple component providers.

Competitive Rivalry: High, with competition on efficiency, portability, and cost.

## Market Opportunities and Challenges

### Opportunities:

Cardiovascular diseases (530 million cases) and transplants (150,000 annually) drive demand.

Aging populations (1.5 billion over 65 by 2050) boost needs, while magnetic levitation and portable ECMO enhance adoption.

R&D investments (15% annual increase) increase usage.

### Challenges:

High costs of electronic pumps limit access in low-income regions.

Regulatory delays for new tech slow growth.

Limited cardiac surgeons in rural areas restrict expansion.

## Market News

In April 2023, Abbott Laboratories received FDA clearances for its CentriMag Blood Pump for ECMO.

In November 2022, LivaNova received FDA 510(k) clearance for its LifeSPARC ECMO system.

In October 2021, a study introduced a portable centrifugal blood pump for heart

failure patients.

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