

Organ Transport & Preservation Systems Market Forecasts to 2034 - Global Analysis By System Type (Organ Transport Systems and Organ Preservation Systems), Organ Type, Preservation Method, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Organ Transport & Preservation Systems Market is accounted for \$357.6 million in 2026 and is expected to reach \$583.0 million by 2034 growing at a CAGR of 6.3% during the forecast period. Organ Transport & Preservation Systems comprise specialized technologies that protect donated organs from deterioration during the period between procurement and transplantation. Key solutions include preservation fluids, cold storage, hypothermic and normothermic machine perfusion, portable perfusion equipment, and temperature-managed transport systems. These technologies help limit ischemic damage, sustain organ viability, and provide greater flexibility in transplantation timelines. Maintaining stable preservation conditions throughout transportation can support organ evaluation, enable broader donor-recipient matching, improve logistical coordination among transplant centers, and potentially reduce the loss of otherwise transplantable organs.

According to WHO Global Observatory data, approximately 157,494 solid organ transplants were performed globally in 2022, including 102,090 kidney, 37,436 liver, 8,988 heart, 6,784 lung, 2,026 pancreas, and 170 small-bowel transplants. The total represented an approximately 9.1% increase from 2021, supporting demand for technologies used to preserve and transport transplantable organs.

Market Dynamics:

Driver:

Increasing organ transplantation volumes

The increasing volume of organ transplantation procedures is creating greater demand for Organ Transport & Preservation Systems. Growing availability of kidneys, livers, hearts, lungs, and other transplantable organs requires dependable technologies that can preserve viability throughout transportation and preparation. Machine perfusion platforms, preservation fluids, and controlled-temperature containers help healthcare facilities manage organs more effectively before transplantation. Greater public awareness, advances in transplant surgery, improved donor identification, and expanding donation initiatives are also encouraging hospitals and specialized centers to strengthen their organ preservation capabilities.

Restraint:

High cost of advanced preservation systems

The substantial investment required for advanced Organ Transport & Preservation Systems can constrain market adoption, especially in hospitals and transplantation facilities operating with restricted healthcare budgets. Sophisticated perfusion equipment, specialized storage technologies, controlled-temperature transportation units, monitoring systems, and maintenance services involve significant expenditures. Facilities may also need to spend more on skilled professionals, consumable supplies, technical support, and dedicated infrastructure. Such economic challenges can reduce access to modern preservation technologies in lower-resource healthcare environments and potentially delay wider implementation across transplant centers.

Opportunity:

Expansion of machine perfusion and organ assessment technologies

Growing use of machine perfusion solutions presents significant opportunities for Organ Transport & Preservation Systems. Hypothermic and normothermic systems can preserve organs while enabling medical teams to examine their condition before transplantation. Further innovations in portability, automated operation, real-time monitoring, and preservation capabilities could strengthen their clinical usefulness. Improved technologies may also help transplant centers consider organs that previously presented greater preservation difficulties. Rising demand for integrated preservation and assessment solutions can encourage manufacturers to introduce advanced platforms designed around transplantation, transportation, and organ utilization needs.

Threat:

Risk of technology failures during organ transportation

Failures in preservation or transportation equipment can present a significant challenge to Organ Transport & Preservation Systems. Malfunctions, power disruptions, temperature fluctuations, communication problems, or insufficient monitoring may negatively affect organ condition while in transit. These risks can make transplant providers more cautious about adopting sophisticated preservation technologies and may expose manufacturers to reputational concerns. Additional requirements for backup systems, real-time oversight, contingency procedures, and technical assistance can further complicate operations. Ensuring dependable performance remains important for maintaining healthcare-provider confidence and supporting broader technology adoption.

Covid-19 Impact:

The COVID-19 pandemic affected the Organ Transport & Preservation Systems Market by interrupting transplantation activities and creating operational challenges for procurement and transportation networks. According to the World Health Organization, essential health services experienced significant disruptions across countries during the pandemic, influencing access to important medical care. Restrictions on travel, limited hospital resources, staffing shortages, and infection-control concerns complicated organ movement. As transplant services recovered, healthcare providers introduced enhanced screening, safety measures, and logistical procedures, increasing the importance of dependable preservation and transportation solutions.

The organ preservation systems segment is expected to be the largest during the forecast period

The organ preservation systems segment is expected to account for the largest market share during the forecast period because they play a critical role in sustaining organ condition between retrieval and transplantation. This segment includes preservation fluids, cold-storage methods, machine perfusion technologies, temperature-control equipment, and monitoring solutions. Their significance continues to grow as healthcare providers focus on limiting ischemic damage and maintaining organ viability during preservation. Increasing adoption of sophisticated preservation techniques further strengthens their role within transplant procedures, positioning these systems as an essential component of contemporary organ procurement, preservation, transportation, and transplantation processes.

The research & academic institutes segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the research & academic institutes segment is predicted to witness the highest growth rate as their role in advancing organ preservation and a transplantation technology expands. These institutions contribute to clinical investigations, experimental studies, technology development, and assessment of emerging perfusion and preservation techniques. Increasing collaboration with transplant hospitals and technology companies can enhance innovation and accelerate the development of improved preservation solutions. Greater research activity focused on maintaining organ viability, optimizing transportation conditions, and improving transplantation practices can consequently increase demand for advanced systems within academic and research environments.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share because of its developed transplant infrastructure, mature organ donation systems, and extensive network of specialized healthcare institutions. The region benefits from numerous transplant hospitals, organ procurement organizations, and medical technology companies that facilitate advanced organ preservation and transportation. Increasing use of machine perfusion, sophisticated storage technologies, and monitoring systems contributes to market expansion. Ongoing investment in transplant care, medical research, and healthcare innovation further reinforces North America's prominent position in the Organ Transport & Preservation Systems Market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR as transplantation capabilities and access to sophisticated healthcare technologies continue developing. Expansion of organ donation programs, increasing transplantation activity, and investment in specialized healthcare infrastructure are supporting market opportunities. Regional healthcare systems are also improving procurement networks and adopting advanced solutions such as machine perfusion and controlled-temperature transport. Growing healthcare spending, technological progress, and stronger cooperation among transplantation facilities are further encouraging the adoption of modern organ preservation technologies.

Key players in the market

Some of the key players in Organ Transport & Preservation Systems Market include TransMedics, XVIVO Perfusion, OrganOx, Organ Recovery Systems, Paragonix Technologies, Bridge to Life, Organ Assist, Preservation Solutions, Waters Medical Systems, Institut Georges Lopez, Dr. Franz K?hler Chemie, Essential Pharmaceuticals, 21st Century Medicine, Carnamedica, Global Transplant Solutions, Transplant Biomedicals, Vascular Perfusion Solutions and KPS Life.

Key Developments:

In September 2025, TransMedics Group, Inc. announced a strategic collaboration with Mercedes-Benz Group AG to deploy a first-of-its-kind fleet of modern, purpose-built Mercedes-Benz V-class vehicles dedicated exclusively to organ transportation across Italy.

In March 2025, OrganOx Ltd has announced a new partnership with ProCure On-Demand. The collaboration aims to significantly improve the recovery and assessment of livers for transplantation by combining OrganOx's cutting-edge normothermic machine perfusion (NMP) technology with ProCure's advanced surgical, perfusion, preservation, and logistics solutions.

System Types Covered:

Organ Transport Systems

Organ Preservation Systems

Organ Types Covered:

Heart

Lungs

Liver

Kidneys

Pancreas

Intestines

Preservation Methods Covered:

Hypothermic Machine Perfusion

Normothermic Machine Perfusion

Static Cold Storage

Other Advanced Preservation Techniques

End Users Covered:

Hospitals & Transplant Centers

Organ Procurement Organizations (OPOs)

Research & Academic Institutes

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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