

# Artificial Organ Market Outlook 2025-2034: Market Share, and Growth Analysis By Organ Type (Artificial Heart, Artificial Kidney, Artificial Liver, Artificial Pancreas, Other Organ Types), By Material (Silicone, Plastic, Steel, Biomaterials ), By Fixation, By End Users

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## Abstracts

The Artificial Organ Market is valued at USD 24.1 billion in 2025 and is projected to grow at a CAGR of 10.4% to reach USD 58.7 billion by 2034. The Artificial Organ Market focuses on the development and commercialization of devices that replace the functions of vital human organs. This includes devices such as artificial hearts, lungs, livers, and kidneys. These devices are designed to provide life-saving solutions for patients with organ failure. The market is driven by the increasing shortage of donor organs and the need for effective alternatives.

Artificial organs use various technologies, such as mechanical pumps, synthetic membranes, and tissue engineering, to replicate the functions of natural organs. These devices can be implantable or extracorporeal and are designed to provide long-term support for patients awaiting organ transplants or those who are not candidates for transplantation. The market is witnessing advancements in miniaturization, biocompatibility, and functionality, making these devices more effective and patient-friendly.

The growth of the artificial organ market is fueled by the increasing demand for organ replacement therapies, advancements in medical technology, and the availability of research funding. Businesses and research institutions are investing in the development of innovative artificial organs to address unmet medical needs. The market is expected

to expand as more advanced and reliable devices become available.

## Key Insights Artificial Organ Market

Development of bioartificial organs using tissue engineering.

Miniaturization and portability of artificial organs.

Use of advanced materials and nanotechnology for improved biocompatibility.

Personalized artificial organ design and function.

Remote monitoring and telehealth for artificial organ patients.

Increasing shortage of donor organs.

Advancements in medical technology and materials.

Need for improved patient survival rates.

Availability of research funding and government support.

Growing demand for personalized medical solutions.

Ensuring biocompatibility and long-term functionality.

High development and manufacturing costs.

Regulatory hurdles and clinical trials.

Ethical considerations and public acceptance.

Integration with the patient's biological systems.

## Artificial Organ Market Segmentation

### By Organ Type

#### Artificial Heart

Artificial Kidney

Artificial Liver

Artificial Pancreas

Other Organ Types

#### By Material

Silicone

Plastic

Steel

Biomaterials

#### By Fixation

Implantable

External

#### By End Users

Hospitals

Ambulatory Surgical Centers

Laboratories And Diagnostic Centers

Research And Academic Institute

Other End Users

## Key Companies Analysed

Medtronic plc

Boston Scientific Services Private Limited.

Abbott Laboratories Inc.

Zimmer Biomet Holdings Inc.

Ekso Bionics Holdings Inc.

Cochlear Limited

Cyberonics Inc.

LIVANOVA plc

NeuroPace Inc.

Ossur India Private Limited

Vivani Medical Inc.

St Jude Medical India Private Limited

LifeNet Health Inc.

Ottobock SE & Co. KGaA

Edwards Lifesciences India Pvt. Ltd.

SynCardia Systems LLC

Demant A/S

Berlin Heart GmbH

Conmed Devices Private Limited

Wright Medical Group N.V.

Baxter International Inc.

B. Braun Melsungen AG

ABIOMED Inc.

Carmat SA

Jarvik Heart Inc.

Terumo Corporation

F. Hoffmann-La Roche Ltd.

Tissium SAS

Organovo Holdings Inc.

Satellite Bio

HeartWare plc

Arthrex Inc.

Novartis AG

Stryker Corp. .

## Artificial Organ Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks

and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

### Artificial Organ Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

### Countries Covered

North America — Artificial Organ market data and outlook to 2034

United States

Canada

Mexico

Europe — Artificial Organ market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Artificial Organ market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Artificial Organ market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

## South and Central America — Artificial Organ market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

### Research Methodology

This study combines primary inputs from industry experts across the Artificial Organ value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Artificial Organ industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Artificial Organ Market Report

Global Artificial Organ market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Artificial Organ trade, costs, and supply chains

Artificial Organ market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Artificial Organ market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Artificial Organ market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Artificial Organ supply chain analysis

Artificial Organ trade analysis, Artificial Organ market price analysis, and Artificial Organ supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Artificial Organ market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market

tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

## Contents

### **1. TABLE OF CONTENTS**

- 1.1 List of Tables
- 1.2 List of Figures

### **2. GLOBAL ARTIFICIAL ORGAN MARKET SUMMARY, 2025**

- 2.1 Artificial Organ Industry Overview
  - 2.1.1 Global Artificial Organ Market Revenues (In US\$ billion)
- 2.2 Artificial Organ Market Scope
- 2.3 Research Methodology

### **3. ARTIFICIAL ORGAN MARKET INSIGHTS, 2024-2034**

- 3.1 Artificial Organ Market Drivers
- 3.2 Artificial Organ Market Restraints
- 3.3 Artificial Organ Market Opportunities
- 3.4 Artificial Organ Market Challenges
- 3.5 Tariff Impact on Global Artificial Organ Supply Chain Patterns

### **4. ARTIFICIAL ORGAN MARKET ANALYTICS**

- 4.1 Artificial Organ Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Artificial Organ Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Artificial Organ Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Artificial Organ Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Artificial Organ Market
  - 4.5.1 Artificial Organ Industry Attractiveness Index, 2025
  - 4.5.2 Artificial Organ Supplier Intelligence
  - 4.5.3 Artificial Organ Buyer Intelligence
  - 4.5.4 Artificial Organ Competition Intelligence
  - 4.5.5 Artificial Organ Product Alternatives and Substitutes Intelligence
  - 4.5.6 Artificial Organ Market Entry Intelligence

### **5. GLOBAL ARTIFICIAL ORGAN MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034**

5.1 World Artificial Organ Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)

5.1 Global Artificial Organ Sales Outlook and CAGR Growth By Organ Type, 2024- 2034 (\$ billion)

5.2 Global Artificial Organ Sales Outlook and CAGR Growth By Material, 2024- 2034 (\$ billion)

5.3 Global Artificial Organ Sales Outlook and CAGR Growth By Fixation, 2024- 2034 (\$ billion)

5.4 Global Artificial Organ Sales Outlook and CAGR Growth By End Users, 2024- 2034 (\$ billion)

5.5 Global Artificial Organ Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

## **6. ASIA PACIFIC ARTIFICIAL ORGAN INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK**

6.1 Asia Pacific Artificial Organ Market Insights, 2025

6.2 Asia Pacific Artificial Organ Market Revenue Forecast By Organ Type, 2024- 2034 (USD billion)

6.3 Asia Pacific Artificial Organ Market Revenue Forecast By Material, 2024- 2034 (USD billion)

6.4 Asia Pacific Artificial Organ Market Revenue Forecast By Fixation, 2024- 2034 (USD billion)

6.5 Asia Pacific Artificial Organ Market Revenue Forecast By End Users, 2024- 2034 (USD billion)

6.6 Asia Pacific Artificial Organ Market Revenue Forecast by Country, 2024- 2034 (USD billion)

6.6.1 China Artificial Organ Market Size, Opportunities, Growth 2024- 2034

6.6.2 India Artificial Organ Market Size, Opportunities, Growth 2024- 2034

6.6.3 Japan Artificial Organ Market Size, Opportunities, Growth 2024- 2034

6.6.4 Australia Artificial Organ Market Size, Opportunities, Growth 2024- 2034

## **7. EUROPE ARTIFICIAL ORGAN MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034**

7.1 Europe Artificial Organ Market Key Findings, 2025

7.2 Europe Artificial Organ Market Size and Percentage Breakdown By Organ Type, 2024- 2034 (USD billion)

7.3 Europe Artificial Organ Market Size and Percentage Breakdown By Material, 2024-

2034 (USD billion)

7.4 Europe Artificial Organ Market Size and Percentage Breakdown By Fixation, 2024-2034 (USD billion)

7.5 Europe Artificial Organ Market Size and Percentage Breakdown By End Users, 2024- 2034 (USD billion)

7.6 Europe Artificial Organ Market Size and Percentage Breakdown by Country, 2024-2034 (USD billion)

7.6.1 Germany Artificial Organ Market Size, Trends, Growth Outlook to 2034

7.6.2 United Kingdom Artificial Organ Market Size, Trends, Growth Outlook to 2034

7.6.2 France Artificial Organ Market Size, Trends, Growth Outlook to 2034

7.6.2 Italy Artificial Organ Market Size, Trends, Growth Outlook to 2034

7.6.2 Spain Artificial Organ Market Size, Trends, Growth Outlook to 2034

## **8. NORTH AMERICA ARTIFICIAL ORGAN MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034**

8.1 North America Snapshot, 2025

8.2 North America Artificial Organ Market Analysis and Outlook By Organ Type, 2024-2034 (\$ billion)

8.3 North America Artificial Organ Market Analysis and Outlook By Material, 2024- 2034 (\$ billion)

8.4 North America Artificial Organ Market Analysis and Outlook By Fixation, 2024- 2034 (\$ billion)

8.5 North America Artificial Organ Market Analysis and Outlook By End Users, 2024-2034 (\$ billion)

8.6 North America Artificial Organ Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.6.1 United States Artificial Organ Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.6.1 Canada Artificial Organ Market Size, Share, Growth Trends and Forecast, 2024-2034

8.6.1 Mexico Artificial Organ Market Size, Share, Growth Trends and Forecast, 2024-2034

## **9. SOUTH AND CENTRAL AMERICA ARTIFICIAL ORGAN MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS**

9.1 Latin America Artificial Organ Market Data, 2025

9.2 Latin America Artificial Organ Market Future By Organ Type, 2024- 2034 (\$ billion)

9.3 Latin America Artificial Organ Market Future By Material, 2024- 2034 (\$ billion)

9.4 Latin America Artificial Organ Market Future By Fixation, 2024- 2034 (\$ billion)

9.5 Latin America Artificial Organ Market Future By End Users, 2024- 2034 (\$ billion)

9.6 Latin America Artificial Organ Market Future by Country, 2024- 2034 (\$ billion)

9.6.1 Brazil Artificial Organ Market Size, Share and Opportunities to 2034

9.6.2 Argentina Artificial Organ Market Size, Share and Opportunities to 2034

## **10. MIDDLE EAST AFRICA ARTIFICIAL ORGAN MARKET OUTLOOK AND GROWTH PROSPECTS**

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Artificial Organ Market Statistics By Organ Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Artificial Organ Market Statistics By Material, 2024- 2034 (USD billion)

10.4 Middle East Africa Artificial Organ Market Statistics By Fixation, 2024- 2034 (USD billion)

10.5 Middle East Africa Artificial Organ Market Statistics By Fixation, 2024- 2034 (USD billion)

10.6 Middle East Africa Artificial Organ Market Statistics by Country, 2024- 2034 (USD billion)

10.6.1 Middle East Artificial Organ Market Value, Trends, Growth Forecasts to 2034

10.6.2 Africa Artificial Organ Market Value, Trends, Growth Forecasts to 2034

## **11. ARTIFICIAL ORGAN MARKET STRUCTURE AND COMPETITIVE LANDSCAPE**

11.1 Key Companies in Artificial Organ Industry

11.2 Artificial Organ Business Overview

11.3 Artificial Organ Product Portfolio Analysis

11.4 Financial Analysis

11.5 SWOT Analysis

## **12 APPENDIX**

12.1 Global Artificial Organ Market Volume (Tons)

12.1 Global Artificial Organ Trade and Price Analysis

12.2 Artificial Organ Parent Market and Other Relevant Analysis

12.3 Publisher Expertise

12.2 Artificial Organ Industry Report Sources and Methodology

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