

# Artificial Organs And Bionic Implants Market: Key Drivers, Trends, Growth Opportunities And Forecast For 2025-2034

*The Business Research Company's  
Artificial Organs And Bionic Implants  
Global Market Report 2025 – Market Size,  
Trends, And Global Forecast 2025-2034*

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KINGDOM, February 12, 2025  
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Artificial Organs And Bionic Implants Global Market  
Report 2025 – Market Size, Trends, And Global  
Forecast 2025-2034

How has the [artificial organs and bionic implants market](#) size fared in recent years, and what is the projected growth?

The [artificial organs and bionic implants market size](#) has seen strong growth in recent years. The market is expected to grow from \$45.02 billion in 2024 to \$48.75 billion in 2025, showcasing a compound annual growth rate CAGR of 8.3%. This growth can be attributed to an increase in the elderly population, a rise in the incidence of organ failure, advances in minimally invasive and robotic surgery, an increase in demand for electronic bionic implants, and increased healthcare expenditure.

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What are the factors contributing to the anticipated market growth by 2029?

The artificial organs and bionic implants market is expected to further expand to \$66.35 billion by 2029, showing a sustained compound annual growth rate CAGR of 8.0%. This predicted growth can be attributed to increasing incidences of conditions such as diabetes, cardiovascular diseases, and kidney failure. Other factors like the rising number of individuals awaiting donors and the increasing prevalence of organ transplants also contribute to this uptrend. Major trends in the forecast period include advancements in 3D bioprinting technology, the integration of nanotechnology into products, the development of smart implants, AI utilization in designing and optimizing artificial organs, and creating new biocompatible materials.

Who are the key industry players in the market for artificial organs and bionic implants?

Major companies operating in the artificial organs and bionic implants market include Medtronic plc, Asahi Kasei Medical Co. Ltd., Stryker Corporation, Boston Scientific Corporation, B. Braun Melsungen AG, Zimmer Biomet Holdings Inc., Terumo Medical Corp., Edwards Lifesciences Corporation, Ottobock SE and Co. KGaA, Cochlear Limited, Ossur hf., Thoratec Corporation, Berlin Heart GmbH, Jarvik Heart Inc., SynCardia Systems LLC, BiVACOR Inc., Gambro AB, Pixium Vision, ALVI Labs, WillowWood Global LLC, Nano Retina Inc., and Organovo Holdings Inc.

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What are the emerging trends in this market?

The artificial organs and bionic implants market is seeing a trend towards advanced solutions such as brain implant technology systems, which aim to enhance cognitive function and treat neurological disorders. A notable example is the Neuralink Corp., which received FDA approval in May 2023 to conduct its first human clinical trials for brain implant technology.

The dynamics of the artificial organs and bionic implants market can be understood better by its segmentation:

1 By Product: Artificial Organs, Artificial Bionics

2 By Technology: Mechanical Bionics, Electronic Bionics

3 By End User: Hospitals, Ambulatory Surgical Centers, Other End Users

Subsegments:

1 By Artificial Organs: Artificial Heart, Artificial Kidney, Artificial Liver, Artificial Pancreas, Artificial Lungs

2 By Artificial Bionics: Bionic Limbs, Bionic Eyes, Bionic Ears, Neural Implants, Bionic Skin

What are the notable geographical insights pertaining to this market?

North America was the largest regional market for artificial organs and bionic implants in 2024. However, Asia-Pacific is expected to witness the fastest growth during the forecast period.

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