

Global AI Prosthesis Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global AI Prosthesis market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

AI prostheses are bionic prostheses that use artificial intelligence technology to achieve autonomous control and restoration of motion through sensing human neural signals and machine learning algorithms. It can interact with the human nervous system through wireless signals and implanted electrodes to simulate muscle contraction and relaxation, as well as movements of fingers, palms, wrists and other parts. The advent of this technology brings new hope to the amputee population and helps them regain limb function and daily self-care ability.

The implementation of AI prostheses requires the use of various technologies, including machine learning, signal processing, neural networks, and more. By implanting electrodes or attaching electrodes, the prostheses can receive neural signals, decode and analyze these signals using machine learning algorithms, identify the muscle's intent and movement direction, and finally control the prostheses to complete the corresponding movements. This technology requires a high degree of accuracy and sensitivity to achieve freedom of movement and natural movement effects.

AI prostheses have made some progress in the medical field, such as in rehabilitation treatment, disability rehabilitation, limb compensation, and other areas with broad application prospects. In addition, AI prostheses also provide new ideas and technical support for research in other fields, such as robotics, intelligent hardware, and more.

This report studies the global AI Prosthesis production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Prosthesis, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI Prosthesis that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Prosthesis total production and demand, 2018-2029, (Units)

Global AI Prosthesis total production value, 2018-2029, (USD Million)

Global AI Prosthesis production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global AI Prosthesis consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: AI Prosthesis domestic production, consumption, key domestic manufacturers and share

Global AI Prosthesis production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global AI Prosthesis production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global AI Prosthesis production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units)

This report profiles key players in the global AI Prosthesis market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ottobock, Esper Bionics, BrainRobotix, Ekso Bionics, ReWalk Robotics, Synchron, Xilloc Medical, Mobius Bionics and Marsi Bionics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI Prosthesis market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global AI Prosthesis Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Prosthesis Market, Segmentation by Type

Implantable Prosthesis

Non-implantable Prosthesis

Global AI Prosthesis Market, Segmentation by Application

Healthcare

Medical Research

Others

Companies Profiled:

Ottobock

Esper Bionics

BrainRobotic

Ekso Bionics

ReWalk Robotics

Synchron

Xilloc Medical

Mobius Bionics

Marsi Bionics

Cyberdyne

SuitX

Open Bionics

Coapt

Key Questions Answered

1. How big is the global AI Prosthesis market?

Global AI Prosthesis Supply, Demand and Key Producers, 2023-2029

2. What is the demand of the global AI Prosthesis market?
3. What is the year over year growth of the global AI Prosthesis market?
4. What is the production and production value of the global AI Prosthesis market?
5. Who are the key producers in the global AI Prosthesis market?
6. What are the growth factors driving the market demand?

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