Artificial Intelligence (AI)-Powered Prosthetics Market Insights Highlight Segment Expansion And Market Leadership

The Business Research Company's Artificial Intelligence (AI)-Powered Prosthetics Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035

The Business Research Company

LONDON, GREATER LONDON, UNITED KINGDOM, July 25, 2026 /EINPresswire.com/ -- "The field of prosthetics is undergoing a significant transformation thanks to artificial intelligence (AI), which is enhancing the way artificial limbs function and interact with users. As these technologies advance, the market for AI-powered prosthetics is expanding rapidly, driven by both medical needs and technological innovation. Let's explore the current market size, key growth drivers, regional trends, and what the future holds for this evolving sector.

Projected Growth and Market Size of the AI-Powered Prosthetics Industry
The AI-powered prosthetics market has experienced notable expansion recently and is expected to continue on this upward trajectory. From $1.71 billion in 2025, the market is projected to reach $1.98 billion in 2026, growing at a compound annual growth rate (CAGR) of 15.8%. Early growth was somewhat restrained due to limitations in AI technology within prosthetics, the high cost of devices, limited awareness about advanced prosthetic options, traditional approaches to rehabilitation, and low uptake in emerging markets.

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Looking ahead, the market is set to experience rapid acceleration, with forecasts predicting it will reach $3.57 billion by 2030, maintaining a CAGR of 15.9%. This forecasted growth is fueled by breakthroughs in AI and machine learning, increased investments in robotic and myoelectric prosthetic solutions, growing demand from sports and military users, the expansion of prosthetic clinics and rehabilitation facilities, and improvements in healthcare infrastructure and insurance coverage. Emerging trends include the push for more personalized prosthetics,

adoption of sensor-based feedback systems, development of rehabilitation and mobility programs, and a stronger focus on prosthetics that balance function with cosmetic appeal.

Understanding AI-Powered Prosthetics and Their Capabilities
AI-powered prosthetics represent a new class of artificial limbs that use artificial intelligence to significantly improve user mobility and control. Unlike conventional prosthetics that rely on preset movements, these devices learn and respond dynamically to muscle signals, neural inputs, and environmental factors. Their main objective is to restore functionality as close as possible to natural limbs, allowing amputees a higher degree of independence and adaptability in daily activities.

View the full artificial intelligence (ai)-powered prosthetics market report:
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How Rising Diabetes Rates Are Accelerating Market Demand for AI-Powered Prosthetics
One of the key factors driving demand for AI-powered prosthetics is the growing prevalence of diabetes worldwide. Diabetes, a chronic condition characterized by elevated blood glucose levels due to insufficient insulin production or ineffective insulin use, is increasing largely because of sedentary lifestyles. Reduced physical activity contributes to weight gain and insulin resistance, which can lead to serious complications such as nerve damage and poor circulation. These complications often result in limb amputations, creating a pressing need for advanced prosthetics that restore mobility and improve patients' quality of life.

For example, in June 2024, the National Health Service (NHS) in the UK reported a significant rise in pre-diabetes cases in England, with numbers increasing 18% from 3,065,825 in 2022 to 3,615,330 in 2023. Among those under 40, the increase was nearly 25%, jumping from 173,166 to 216,440 over the same period. This surge in diabetes-related health issues is a major catalyst for the growth of the AI-powered prosthetics market.

Regional Market Landscape of AI-Powered Prosthetics
In 2025, North America held the largest share of the AI-powered prosthetics market, reflecting strong healthcare infrastructure and early technology adoption. Meanwhile, the Asia-Pacific region is anticipated to be the fastest-growing market during the forecast period due to increasing healthcare investments, rising awareness, and expanding manufacturing capabilities. The market report encompasses key regions such as Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive global perspective on market developments.

Our 2026 market reports now offer broader strategic coverage through market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based forecasting dashboards, market hotspots infographics, key technologies

and future trend analysis, along with updated graphics and tables.

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