

# **Human Augmentation Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Wearable, Virtual Reality, Augmented Reality, Exoskeleton, and Intelligent Virtual Assistant), By Device (Body Worn and Non-Body Worn), By Application (Medical, Aerospace & Defense, Sports & Utility, Media & Entertainment, Education, and Others), By Region, By Competition, 2018-2028**

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## **Abstracts**

Global Human Augmentation Market was valued at USD 14.7 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 21.4% through 2028. The Global Human Augmentation Market is experiencing robust growth, driven by the convergence of cutting-edge technologies and the escalating demand for enhancing human capabilities. This market encompasses a wide array of innovations, including augmented reality (AR), virtual reality (VR), robotics, wearable devices, and biotechnology, all aimed at enhancing human performance and addressing various challenges. In healthcare, human augmentation technologies are revolutionizing patient care and surgical procedures, leading to increased accuracy and improved outcomes. In industries, augmented reality glasses and exoskeletons are boosting worker productivity and safety, reducing workplace accidents, and augmenting physical capabilities. Additionally, the market is witnessing significant developments in neural control interfaces and biohybrid systems, enabling seamless integration between humans and machines. The rise of 5G networks and advancements in artificial intelligence further amplify the potential of human augmentation technologies. As businesses and healthcare sectors increasingly adopt these innovations, the Global Human Augmentation Market is poised for continued expansion, fostering a future

where human abilities are augmented, revolutionizing industries, healthcare, and daily life.

## Key Market Drivers

### Technological Advancements in Human Augmentation

The global Human Augmentation Market is experiencing substantial growth, propelled by rapid advancements in technology. Innovations in augmented reality (AR), virtual reality (VR), robotics, biotechnology, and wearable devices are transforming the landscape of human augmentation. These technologies are not only enhancing human capabilities but also finding applications in healthcare, industries, and daily life. For instance, exoskeletons are enabling enhanced physical abilities, aiding rehabilitation and industrial tasks, while neural control interfaces are revolutionizing human-machine interactions. With the integration of artificial intelligence and machine learning, these augmentations are becoming more intuitive and efficient, catering to a wide array of user needs.

### Healthcare Sector Integration

The integration of human augmentation technologies in the healthcare sector is a major driving force for the market. Augmented reality is revolutionizing medical training, enabling surgeons to practice complex procedures in virtual environments, enhancing precision and reducing risks. Wearable devices equipped with health monitoring capabilities are empowering individuals to track their health in real-time, fostering preventive healthcare measures. Additionally, prosthetics and bionics are leveraging advanced materials and control mechanisms, providing enhanced mobility and functionality to individuals with limb disabilities. These applications are not only improving the quality of patient care but also reducing healthcare costs, driving the adoption of human augmentation technologies in the medical field.

### Enhanced Industrial Productivity

Industries worldwide are embracing human augmentation technologies to enhance workforce productivity and safety. AR glasses are providing real-time information to workers, aiding in complex assembly tasks and reducing errors. Exoskeletons are reducing physical strain on laborers, particularly in sectors involving heavy lifting and repetitive motions. Collaborative robots, or cobots, equipped with human augmentation features, are working alongside human workers, augmenting their capabilities and

increasing overall efficiency. These technologies are mitigating workplace injuries, enhancing job satisfaction, and optimizing production processes, making them indispensable tools in modern industries.

### Consumer Demand for Enhanced Experiences

The rising consumer demand for enhanced experiences is fueling the adoption of human augmentation technologies. From immersive gaming experiences through VR to personalized fitness training with wearable devices, consumers are seeking innovative ways to augment their daily lives. Augmented reality applications in smartphones and smart glasses are transforming entertainment, navigation, and social interactions. Additionally, the integration of biometric sensors and haptic feedback systems in wearable devices is enhancing user experiences, making interactions with technology more intuitive and engaging. As consumers increasingly prioritize seamless and enriched experiences, the demand for human augmentation technologies across various consumer applications is poised to surge, driving market growth.

### Evolving Regulatory Landscape and Ethical Considerations

The evolving regulatory landscape and ethical considerations are shaping the trajectory of the Human Augmentation Market. Regulatory bodies are working to establish guidelines and standards to ensure the safety, privacy, and ethical use of human augmentation technologies. Ethical considerations regarding privacy, consent, and the impact of augmentations on human identity are driving responsible innovation in the field. Companies investing in research and development are focusing on creating ethical and transparent technologies, addressing societal concerns. This conscientious approach not only fosters consumer trust but also ensures the sustainable growth of the human augmentation market, promoting responsible technological advancements.

### Key Market Challenges

#### Technological Compatibility and Fragmentation

The rapid evolution of human augmentation technologies has led to a diverse array of devices and interfaces, creating challenges related to technological compatibility and fragmentation. Various augmentation solutions, including AR glasses, neural interfaces, and exoskeletons, operate on different platforms and protocols, making interoperability complex. Users often face frustration when attempting to integrate multiple augmentations or upgrade existing systems due to compatibility issues. As the market

continues to expand, standardization efforts are crucial to streamline these technologies and enhance user experience, requiring concerted industry efforts.

### Proliferation of Counterfeit and Low-Quality Augmentation Devices

The proliferation of human augmentation devices has unfortunately led to the rise of counterfeit and low-quality products in the market. These substandard augmentations lack essential safety features, posing risks to users' physical and digital well-being. Identifying genuine and safe augmentations amid a sea of counterfeit products has become a significant challenge, necessitating stricter quality control measures and extensive consumer awareness campaigns to ensure users can confidently adopt these technologies without compromising their safety or security.

### Environmental Impact of Human Augmentation Devices

The widespread adoption of human augmentation devices has inadvertently contributed to the growing problem of electronic waste. As users upgrade their augmentations or encounter non-functional devices, the disposal of old augmentations poses environmental challenges. Developing sustainable practices within the human augmentation market is imperative. Initiatives such as augmentation recycling programs can encourage responsible disposal, minimizing the impact on the environment. Additionally, promoting modular designs and interchangeable components can reduce waste generation, aligning the market with eco-friendly principles. Manufacturers play a pivotal role in this by adopting environmentally conscious production practices, utilizing recyclable materials, and implementing energy-efficient manufacturing processes to mitigate the environmental footprint of human augmentation devices.

### Standardization of Augmentation Technologies

Like the Human Augmentation market, the human augmentation sector lacks a universally accepted standard, especially concerning interfaces and communication protocols. Various augmentation technologies operate on proprietary systems, limiting user choices and hindering seamless integration. This lack of standardization not only complicates user experiences but also leads to environmental repercussions due to electronic waste generated by incompatible or obsolete devices. Industry-wide collaboration is essential to develop standardized augmentation technologies that can be universally adopted, simplifying user interactions and promoting sustainable practices through device longevity and compatibility.

## Adherence to Safety Regulations and Compliance

Ensuring the safety and compliance of human augmentation devices with international standards remains a persistent challenge. Manufacturers navigate evolving regulations related to user safety, electromagnetic compatibility, and environmental impact. Failure to meet these standards can lead to legal liabilities and compromises user safety. Rigorous testing, adherence to global standards, and proactive compliance measures are vital to ensuring the integrity of human augmentation devices and fostering user trust. Collaborative efforts between regulatory bodies and manufacturers are essential to establish comprehensive guidelines that guarantee the safety and ethical use of augmentation technologies.

## Key Market Trends

### Integration of Augmentation Devices with Portable Electronics

The global human augmentation market is witnessing a significant surge, driven by the integration of augmentation devices with portable electronics such as smartphones, smart glasses, and wearable sensors. These augmentations, ranging from augmented reality (AR) overlays to neuroenhancement devices, are becoming seamlessly interconnected with everyday devices. This integration enhances user experience by providing real-time data visualization, communication, and interactive capabilities. As the demand for augmented experiences rises, the market for human augmentation devices is evolving rapidly, with a focus on compatibility and seamless integration with portable electronics. This trend is reshaping industries, including healthcare, education, and manufacturing, where augmented devices are enhancing productivity, safety, and communication.

### Advancements in Neuroenhancement Technologies

The human augmentation market is experiencing a transformative wave of innovation, particularly in neuroenhancement technologies. These advancements focus on enhancing cognitive abilities, memory, and decision-making processes. From brain-computer interfaces (BCIs) to neurostimulation devices, companies are investing heavily in research and development to create sophisticated and user-friendly neuroenhancement solutions. These technologies are not only gaining traction in medical applications, aiding individuals with neurological disorders, but are also being explored in non-medical contexts such as education and gaming. As our understanding of the human brain deepens, the market for neuroenhancement technologies is poised

for significant growth, catering to individuals seeking to enhance their mental capabilities and cognitive skills.

### Proliferation of Exoskeletons and Mobility Augmentations

The demand for exoskeletons and mobility augmentations is witnessing a remarkable upswing, fueled by advancements in materials, robotics, and biomechanics. Exoskeletons, once confined to science fiction, are now a reality, assisting individuals with mobility impairments and augmenting the physical capabilities of workers in industries like manufacturing and logistics. These devices are designed to enhance strength, endurance, and overall mobility, reducing the risk of injuries and improving the quality of life for users. As technology matures, exoskeletons are becoming more lightweight, ergonomic, and affordable, leading to increased adoption in various sectors. This trend is reshaping rehabilitation practices, workplace safety protocols, and the overall perception of human physical potential.

### Rise of Biohacking and Personalized Augmentation Solutions

Biohacking, the practice of enhancing human capabilities through self-experimentation and the use of technology, is gaining momentum within the human augmentation market. Enthusiasts are exploring a wide range of augmentation methods, including implantable devices, nootropics, and gene editing techniques, to enhance physical and cognitive abilities. Additionally, the market is witnessing a shift towards personalized augmentation solutions tailored to individual needs and preferences. Companies are developing customizable augmentation devices and services, allowing users to personalize their augmented experiences based on specific goals and desired outcomes. This trend reflects a consumer-driven approach to human augmentation, where individuals actively participate in shaping their enhanced capabilities, leading to a diverse and innovative market landscape.

### Ethical and Regulatory Considerations in Human Augmentation

The rapid advancements in human augmentation technologies have sparked profound ethical and regulatory debates. Questions regarding privacy, consent, identity, and the equitable distribution of augmentation technologies are at the forefront of discussions. Ethical considerations encompass issues such as cognitive privacy, consent protocols for neuroenhancement procedures, and the potential societal impact of widespread adoption. Regulatory bodies are grappling with the challenge of balancing innovation with ethical standards, ensuring the responsible development and deployment of



augmentation technologies. The intersection of ethics, technology, and legislation is shaping the future of the human augmentation market, driving discussions on standards, guidelines, and the ethical boundaries of enhancing human capabilities.

## Segmental Insights

### Application Insights

Based on application, the market is segmented into medical, aerospace & defense, sports & utility, media & entertainment, education, and others. The medical segment dominates as the healthcare industry accelerates quickly due to technological advances, offering new opportunities to improve patient care. Human augmentation plays a vital role in the medical sector as it provides virtual health assistance, accurate cancer diagnosis, early diagnosis of fatal blood diseases, help in treating rare diseases, robot-assisted surgeries, managing medical records, reducing dosage errors, automated redundant healthcare tasks, fraud detection, automatic image diagnosis, developing new medicines, improvised healthcare access and others.

The aerospace & defense segment is expected to reflect the highest CAGR over the forecast period. The advancements in this segment are spontaneous, with improved efficiency, situational awareness, cost reduction, and enhanced defense capabilities.

### Device Insights

The global human augmentation market was predominantly dominated by the Body Worn segment, a trend that is anticipated to persist steadfastly throughout the forecast period. Body worn augmentations, ranging from exoskeletons and smart glasses to wearable sensors, constituted the majority of the market share due to their diverse applications across industries and the increasing adoption of wearable technology. Exoskeletons, designed to enhance physical capabilities, gained significant traction in sectors like healthcare and manufacturing, providing mobility assistance and reducing the risk of work-related injuries. Additionally, smart glasses equipped with augmented reality (AR) capabilities found extensive use in fields such as maintenance, training, and healthcare, offering hands-free information access and real-time data visualization. Wearable sensors, including biosensors and motion trackers, played a pivotal role in healthcare and sports, enabling continuous health monitoring and performance analysis. The body-worn devices' market dominance was driven by their seamless integration into daily tasks and the growing emphasis on improving human efficiency and safety. As industries continue to explore innovative applications for body-worn

augmentations and the technology behind these devices advances, the body-worn segment is poised to maintain its dominance, offering practical and user-friendly solutions for augmenting human capabilities across diverse sectors.

### Technology Insights

The Wearable technology segment emerged as the dominant force in the Global Human Augmentation Market, a trend that is projected to persist resolutely throughout the forecast period. Wearables, encompassing a wide array of devices like smart glasses, exoskeletons, and wearable sensors, took the lead due to their versatile applications and seamless integration into daily life and various industries. Smart glasses, equipped with Augmented Reality (AR) capabilities, found extensive use in sectors like maintenance, logistics, and healthcare, providing hands-free access to information and enhancing task efficiency. Exoskeletons, a subset of wearable technology, gained prominence in healthcare and manufacturing, offering physical support and reducing the risk of injuries for workers. Additionally, wearable sensors, including biosensors and motion trackers, were pivotal in healthcare and sports, enabling continuous health monitoring, performance analysis, and rehabilitation. The wearables segment's dominance was propelled by its user-friendly nature, allowing users to augment their capabilities without disrupting their routines. As technology continues to advance, wearables are anticipated to maintain their supremacy, driven by ongoing innovations and their ability to empower individuals and industries alike, making them an integral part of the future of human augmentation.

### Regional Insights

North America is the most promising region, holding 43.7% of the global market share. The region holds the highest market share as North America is technologically advanced and is an early adopter of various technologies such as AR/VR, different wearable devices, intelligent virtual assistants, robotic exoskeletons, and others. Moreover, heavy investments in research & development activities and the adoption of technologies are expected to maintain the demand for human augmentation in the region. Amid the pandemic, human augmentation technologies have gained tremendous popularity due to their bright future and advantages over traditional technologies.

Europe is expected to show significant market growth during the forecast period due to increased usage of robots that have aided medical research and healthcare equipment innovation in developed countries, such as the U.K., Germany, France, and others,



resulting in the surging adoption of human augmentation technologies.

Asia Pacific is expected to show a higher growth trajectory. Growing digitization and adopting advanced technologies, such as cloud deployment, Big Data, and artificial intelligence, will likely surge the demand across various industries such as healthcare & life sciences, media & entertainment, and aerospace & defense. As the world is revolutionizing to Industry 4.0, governments and various businesses in the Middle East & Africa have started to realize the paradigm shift toward AI and human augmentation technologies. Hence, the MEA region is anticipated to accrue 18% of the CAGR as AI positively impacts society and the economy.

### Key Market Players

Ekso Bionics Holdings, Inc.

B-Temia Inc.

Medtronic plc

Cyberdyne Inc.

ReWalk Robotics Ltd.

Second Sight Medical Products, Inc.

BrainGate Company

Hocoma AG

Raytheon Company

Samsung Electronics Co., Ltd.

Google LLC

Microsoft Corporation

Report Scope:

In this report, the Global Human Augmentation Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Human Augmentation Market, By Technology:

Wearable

Virtual Reality

Augmented Reality

Exoskeleton

Intelligent Virtual Assistant

Human Augmentation Market, By Device:

Body Worn

Non-Body Worn

Human Augmentation Market, By Application:

Medical

Aerospace & Defense

Sports & Utility

Media & Entertainment

Education

Others

Human Augmentation Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Human Augmentation Market.

## Available Customizations:

Global Human Augmentation market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
  - 2.5.1. Secondary Research
  - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
  - 2.6.1. The Bottom-Up Approach
  - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
  - 2.8.1. Data Triangulation & Validation

### **3. EXECUTIVE SUMMARY**

### **4. IMPACT OF COVID-19 ON GLOBAL HUMAN AUGMENTATION MARKET**

### **5. VOICE OF CUSTOMER**

### **6. GLOBAL HUMAN AUGMENTATION MARKET OVERVIEW**

### **7. GLOBAL HUMAN AUGMENTATION MARKET OUTLOOK**

## 7.1. Market Size & Forecast

### 7.1.1. By Value

## 7.2. Market Share & Forecast

### 7.2.1. By Technology (Wearable, Virtual Reality, Augmented Reality, Exoskeleton, and Intelligent Virtual Assistant)

### 7.2.2. By Device (Body Worn and Non-Body Worn)

### 7.2.3. By Application (Medical, Aerospace & Defense, Sports & Utility, Media & Entertainment, Education, and Others)

### 7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

## 7.3. By Company (2022)

## 7.4. Market Map

# 8. NORTH AMERICA HUMAN AUGMENTATION MARKET OUTLOOK

## 8.1. Market Size & Forecast

### 8.1.1. By Value

## 8.2. Market Share & Forecast

### 8.2.1. By Technology

### 8.2.2. By Device

### 8.2.3. By Application

### 8.2.4. By Country

## 8.3. North America: Country Analysis

### 8.3.1. United States Human Augmentation Market Outlook

#### 8.3.1.1. Market Size & Forecast

##### 8.3.1.1.1. By Value

#### 8.3.1.2. Market Share & Forecast

##### 8.3.1.2.1. By Technology

##### 8.3.1.2.2. By Device

##### 8.3.1.2.3. By Application

### 8.3.2. Canada Human Augmentation Market Outlook

#### 8.3.2.1. Market Size & Forecast

##### 8.3.2.1.1. By Value

#### 8.3.2.2. Market Share & Forecast

##### 8.3.2.2.1. By Technology

##### 8.3.2.2.2. By Device

##### 8.3.2.2.3. By Application

### 8.3.3. Mexico Human Augmentation Market Outlook



#### 8.3.3.1. Market Size & Forecast

##### 8.3.3.1.1. By Value

#### 8.3.3.2. Market Share & Forecast

##### 8.3.3.2.1. By Technology

##### 8.3.3.2.2. By Device

##### 8.3.3.2.3. By Application

## 9. EUROPE HUMAN AUGMENTATION MARKET OUTLOOK

### 9.1. Market Size & Forecast

#### 9.1.1. By Value

### 9.2. Market Share & Forecast

#### 9.2.1. By Technology

#### 9.2.2. By Device

#### 9.2.3. By Application

#### 9.2.4. By Country

### 9.3. Europe: Country Analysis

#### 9.3.1. Germany Human Augmentation Market Outlook

##### 9.3.1.1. Market Size & Forecast

##### 9.3.1.1.1. By Value

##### 9.3.1.2. Market Share & Forecast

##### 9.3.1.2.1. By Technology

##### 9.3.1.2.2. By Device

##### 9.3.1.2.3. By Application

#### 9.3.2. France Human Augmentation Market Outlook

##### 9.3.2.1. Market Size & Forecast

##### 9.3.2.1.1. By Value

##### 9.3.2.2. Market Share & Forecast

##### 9.3.2.2.1. By Technology

##### 9.3.2.2.2. By Device

##### 9.3.2.2.3. By Application

#### 9.3.3. United Kingdom Human Augmentation Market Outlook

##### 9.3.3.1. Market Size & Forecast

##### 9.3.3.1.1. By Value

##### 9.3.3.2. Market Share & Forecast

##### 9.3.3.2.1. By Technology

##### 9.3.3.2.2. By Device

##### 9.3.3.2.3. By Application

#### 9.3.4. Italy Human Augmentation Market Outlook

- 9.3.4.1. Market Size & Forecast
  - 9.3.4.1.1. By Value
- 9.3.4.2. Market Share & Forecast
  - 9.3.4.2.1. By Technology
  - 9.3.4.2.2. By Device
  - 9.3.4.2.3. By Application
- 9.3.5. Spain Human Augmentation Market Outlook
  - 9.3.5.1. Market Size & Forecast
    - 9.3.5.1.1. By Value
  - 9.3.5.2. Market Share & Forecast
    - 9.3.5.2.1. By Technology
    - 9.3.5.2.2. By Device
    - 9.3.5.2.3. By Application
- 9.3.6. Belgium Human Augmentation Market Outlook
  - 9.3.6.1. Market Size & Forecast
    - 9.3.6.1.1. By Value
  - 9.3.6.2. Market Share & Forecast
    - 9.3.6.2.1. By Technology
    - 9.3.6.2.2. By Device
    - 9.3.6.2.3. By Application

## **10. SOUTH AMERICA HUMAN AUGMENTATION MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Technology
  - 10.2.2. By Device
  - 10.2.3. By Application
  - 10.2.4. By Country
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil Human Augmentation Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Technology
      - 10.3.1.2.2. By Device
      - 10.3.1.2.3. By Application
  - 10.3.2. Colombia Human Augmentation Market Outlook

- 10.3.2.1. Market Size & Forecast
  - 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
  - 10.3.2.2.1. By Technology
  - 10.3.2.2.2. By Device
  - 10.3.2.2.3. By Application
- 10.3.3. Argentina Human Augmentation Market Outlook
  - 10.3.3.1. Market Size & Forecast
    - 10.3.3.1.1. By Value
  - 10.3.3.2. Market Share & Forecast
    - 10.3.3.2.1. By Technology
    - 10.3.3.2.2. By Device
    - 10.3.3.2.3. By Application
- 10.3.4. Chile Human Augmentation Market Outlook
  - 10.3.4.1. Market Size & Forecast
    - 10.3.4.1.1. By Value
  - 10.3.4.2. Market Share & Forecast
    - 10.3.4.2.1. By Technology
    - 10.3.4.2.2. By Device
    - 10.3.4.2.3. By Application
- 10.3.5. Peru Human Augmentation Market Outlook
  - 10.3.5.1. Market Size & Forecast
    - 10.3.5.1.1. By Value
  - 10.3.5.2. Market Share & Forecast
    - 10.3.5.2.1. By Technology
    - 10.3.5.2.2. By Device
    - 10.3.5.2.3. By Application

## **11. MIDDLE EAST & AFRICA HUMAN AUGMENTATION MARKET OUTLOOK**

- 11.1. Market Size & Forecast
  - 11.1.1. By Value
- 11.2. Market Share & Forecast
  - 11.2.1. By Technology
  - 11.2.2. By Device
  - 11.2.3. By Application
  - 11.2.4. By Country
- 11.3. Middle East & Africa: Country Analysis
  - 11.3.1. Saudi Arabia Human Augmentation Market Outlook

- 11.3.1.1. Market Size & Forecast
  - 11.3.1.1.1. By Value
- 11.3.1.2. Market Share & Forecast
  - 11.3.1.2.1. By Technology
  - 11.3.1.2.2. By Device
  - 11.3.1.2.3. By Application
- 11.3.2. UAE Human Augmentation Market Outlook
  - 11.3.2.1. Market Size & Forecast
    - 11.3.2.1.1. By Value
  - 11.3.2.2. Market Share & Forecast
    - 11.3.2.2.1. By Technology
    - 11.3.2.2.2. By Device
    - 11.3.2.2.3. By Application
- 11.3.3. South Africa Human Augmentation Market Outlook
  - 11.3.3.1. Market Size & Forecast
    - 11.3.3.1.1. By Value
  - 11.3.3.2. Market Share & Forecast
    - 11.3.3.2.1. By Technology
    - 11.3.3.2.2. By Device
    - 11.3.3.2.3. By Application
- 11.3.4. Turkey Human Augmentation Market Outlook
  - 11.3.4.1. Market Size & Forecast
    - 11.3.4.1.1. By Value
  - 11.3.4.2. Market Share & Forecast
    - 11.3.4.2.1. By Technology
    - 11.3.4.2.2. By Device
    - 11.3.4.2.3. By Application
- 11.3.5. Israel Human Augmentation Market Outlook
  - 11.3.5.1. Market Size & Forecast
    - 11.3.5.1.1. By Value
  - 11.3.5.2. Market Share & Forecast
    - 11.3.5.2.1. By Technology
    - 11.3.5.2.2. By Device
    - 11.3.5.2.3. By Application

## **12. ASIA PACIFIC HUMAN AUGMENTATION MARKET OUTLOOK**

- 12.1. Market Size & Forecast
  - 12.1.1. By Technology

- 12.1.2. By Device
- 12.1.3. By Application
- 12.1.4. By Country
- 12.2. Asia-Pacific: Country Analysis
  - 12.2.1. China Human Augmentation Market Outlook
    - 12.2.1.1. Market Size & Forecast
      - 12.2.1.1.1. By Value
    - 12.2.1.2. Market Share & Forecast
      - 12.2.1.2.1. By Technology
      - 12.2.1.2.2. By Device
      - 12.2.1.2.3. By Application
  - 12.2.2. India Human Augmentation Market Outlook
    - 12.2.2.1. Market Size & Forecast
      - 12.2.2.1.1. By Value
    - 12.2.2.2. Market Share & Forecast
      - 12.2.2.2.1. By Technology
      - 12.2.2.2.2. By Device
      - 12.2.2.2.3. By Application
  - 12.2.3. Japan Human Augmentation Market Outlook
    - 12.2.3.1. Market Size & Forecast
      - 12.2.3.1.1. By Value
    - 12.2.3.2. Market Share & Forecast
      - 12.2.3.2.1. By Technology
      - 12.2.3.2.2. By Device
      - 12.2.3.2.3. By Application
  - 12.2.4. South Korea Human Augmentation Market Outlook
    - 12.2.4.1. Market Size & Forecast
      - 12.2.4.1.1. By Value
    - 12.2.4.2. Market Share & Forecast
      - 12.2.4.2.1. By Technology
      - 12.2.4.2.2. By Device
      - 12.2.4.2.3. By Application
  - 12.2.5. Australia Human Augmentation Market Outlook
    - 12.2.5.1. Market Size & Forecast
      - 12.2.5.1.1. By Value
    - 12.2.5.2. Market Share & Forecast
      - 12.2.5.2.1. By Technology
      - 12.2.5.2.2. By Device
      - 12.2.5.2.3. By Application

#### 12.2.6. Indonesia Human Augmentation Market Outlook

##### 12.2.6.1. Market Size & Forecast

###### 12.2.6.1.1. By Value

##### 12.2.6.2. Market Share & Forecast

###### 12.2.6.2.1. By Technology

###### 12.2.6.2.2. By Device

###### 12.2.6.2.3. By Application

#### 12.2.7. Vietnam Human Augmentation Market Outlook

##### 12.2.7.1. Market Size & Forecast

###### 12.2.7.1.1. By Value

##### 12.2.7.2. Market Share & Forecast

###### 12.2.7.2.1. By Technology

###### 12.2.7.2.2. By Device

###### 12.2.7.2.3. By Application

### 13. MARKET DYNAMICS

#### 13.1. Drivers

#### 13.2. Challenges

### 14. MARKET TRENDS AND DEVELOPMENTS

### 15. COMPANY PROFILES

#### 15.1. Ekso Bionics Holdings, Inc.

##### 15.1.1. Business Overview

##### 15.1.2. Key Revenue and Financials

##### 15.1.3. Recent Developments

##### 15.1.4. Key Personnel/Key Contact Person

##### 15.1.5. Key Product/Services Offered

#### 15.2. B-Temia Inc.

##### 15.2.1. Business Overview

##### 15.2.2. Key Revenue and Financials

##### 15.2.3. Recent Developments

##### 15.2.4. Key Personnel/Key Contact Person

##### 15.2.5. Key Product/Services Offered

#### 15.3. Medtronic plc

##### 15.3.1. Business Overview



- 15.3.2. Key Revenue and Financials
- 15.3.3. Recent Developments
- 15.3.4. Key Personnel/Key Contact Person
- 15.3.5. Key Product/Services Offered
- 15.4. Cyberdyne Inc.
  - 15.4.1. Business Overview
  - 15.4.2. Key Revenue and Financials
  - 15.4.3. Recent Developments
  - 15.4.4. Key Personnel/Key Contact Person
  - 15.4.5. Key Product/Services Offered
- 15.5. ReWalk Robotics Ltd.
  - 15.5.1. Business Overview
  - 15.5.2. Key Revenue and Financials
  - 15.5.3. Recent Developments
  - 15.5.4. Key Personnel/Key Contact Person
  - 15.5.5. Key Product/Services Offered
- 15.6. Second Sight Medical Products, Inc.
  - 15.6.1. Business Overview
  - 15.6.2. Key Revenue and Financials
  - 15.6.3. Recent Developments
  - 15.6.4. Key Personnel/Key Contact Person
  - 15.6.5. Key Product/Services Offered
- 15.7. BrainGate Company
  - 15.7.1. Business Overview
  - 15.7.2. Key Revenue and Financials
  - 15.7.3. Recent Developments
  - 15.7.4. Key Personnel/Key Contact Person
  - 15.7.5. Key Product/Services Offered
- 15.8. Hocoma AG
  - 15.8.1. Business Overview
  - 15.8.2. Key Revenue and Financials
  - 15.8.3. Recent Developments
  - 15.8.4. Key Personnel/Key Contact Person
  - 15.8.5. Key Product/Services Offered
- 15.9. Raytheon Company
  - 15.9.1. Business Overview
  - 15.9.2. Key Revenue and Financials
  - 15.9.3. Recent Developments
  - 15.9.4. Key Personnel/Key Contact Person

15.9.5. Key Product/Services Offered

15.10. Samsung Electronics Co., Ltd.

15.10.1. Business Overview

15.10.2. Key Revenue and Financials

15.10.3. Recent Developments

15.10.4. Key Personnel/Key Contact Person

15.10.5. Key Product/Services Offered

15.11. Google LLC

15.11.1. Business Overview

15.11.2. Key Revenue and Financials

15.11.3. Recent Developments

15.11.4. Key Personnel/Key Contact Person

15.11.5. Key Product/Services Offered

15.12. Microsoft Corporation

15.12.1. Business Overview

15.12.2. Key Revenue and Financials

15.12.3. Recent Developments

15.12.4. Key Personnel/Key Contact Person

15.12.5. Key Product/Services Offered

## **16. STRATEGIC RECOMMENDATIONS**

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