

# Human Enhancement Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/H738B2AD3EA5EN.html>

Date: November 2023

Pages: 139

Price: US\$ 2,499.00 (Single User License)

ID: H738B2AD3EA5EN

## Abstracts

The global human enhancement market size reached US\$ 97.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 215.9 Billion by 2028, exhibiting a growth rate (CAGR) of 14.09% during 2022-2028.

Human enhancement refers to a natural, artificial, and technological alteration of the body to enhance cognitive and physical capabilities and functions of individuals. It is undertaken using drugs, hormones, implants, genetic engineering to dietary supplements and cosmetic surgeries for self-improvement. Nowadays, advances in human enhancement technologies provide resistance against diseases like malaria, tuberculosis, and Lyme. They also allow up-to-date diagnostic and advancements in genome editing technologies, such as clustered regularly interspaced short palindromic repeats (CRISPR) for a functional cure of human immunodeficiency virus (HIV) infection.

### Human Enhancement Market Trends:

The growing prevalence of acute and chronic diseases, in confluence with the increasing access to healthcare services, represents one of the key factors positively influencing the demand for human enhancement technologies around the world. These technologies mainly include nanotechnology, information technology (IT), and cognitive science, which assist in upgrading biomedical interventions as well as diagnose and treat various diseases. They also comprise active control systems that help create limb prosthetics with characteristics that exceed human performance. Moreover, emerging technologies like genetic engineering, neuronal implants, brain-computer interfaces, and three-dimensional (3D) bioprinting are contributing to the market growth. Apart from this, due to rising geopolitical tension between countries, security agencies of several

countries are investing in research programs to improve battlefield performance. For instance, the ethics committee in the French Army approved the research of human enhancement technologies for developing enhanced soldiers. This research also involves the utilization of advanced systems, ranging from drugs to exoskeletons, to enhance military personnel in targeting decisions. These factors are anticipated to drive the adoption of human enhancement technologies and influence the market positively in the coming years.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global human enhancement market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, device type and end user.

#### Breakup by Product:

- Exoskeleton
- Smart Devices
- Medical Devices
- Implants
- Others

#### Breakup by Device Type:

- Body Worn
- Non-Body Worn

#### Breakup by End User:

- Healthcare
- Defense
- Information Technology
- Others

#### Breakup by Region:

- North America
- United States
- Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being BrainGate, B-Temia Inc, Ekso Bionics, Google LLC, Magic Leap Inc, Raytheon Technologies Corporation, ReWalk Robotics Ltd, Samsung Electronics Co. Ltd., Second Sight Medical Products Inc. and Vuzix Corporation.

Key Questions Answered in This Report

1. What was the size of the global human enhancement market in 2022?
2. What is the expected growth rate of the global human enhancement market during 2023-2028?
3. What has been the impact of COVID-19 on the global human enhancement market?
4. What are the key factors driving the global human enhancement market?
5. What is the breakup of the global human enhancement market based on the product?
6. What is the breakup of the global human enhancement market based on the device type?
7. What is the breakup of the global human enhancement market based on the end user?

8. What are the key regions in the global human enhancement market?
9. Who are the key players/companies in the global human enhancement market?

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