

Haptic Technology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global haptic technology market size reached US\$ 9.1 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 18.5 Billion by 2028, exhibiting a growth rate (CAGR) of 11.9% during 2023-2028.

Haptic technology, or kinesthetic communication, refers to virtual and mixed reality solutions that offer multi-modal experiences by engaging sight, sound and touch. It involves technology that uses physical feedback and pressure sensitivity to operate through various devices, such as actuators, haptic drives and microcontroller units. The haptic actuators are electronic devices that convert electric signals to vibrations that can be sensed by the user operating the device. This technology is commonly used for creating and controlling virtual objects, game consoles, surgical equipment and wearable devices, and to enhance the efficiency of remote-controlled machines and telerobots.

Significant growth in the consumer electronics sector, along with the increasing adoption of haptic technology solutions for improved scalability of devices, are among the key factors creating a positive impact on the market. The widespread adoption of haptics in smart-phones, tablets, media players, home appliances and virtual interfaces for enhanced sound, touch and visual effects have facilitated improvements in product designs and operational efficiencies. Furthermore, increasing utilization of haptic technology in gaming applications is also driving the market growth. Gaming input devices, such as operating consoles and joysticks, use the technology to provide different intensities of vibrations and mechanical signals, thereby providing immersive user experience. Additionally, the growing usage of 3D-touchscreen displays in automobiles and medical electronics is contributing to the growth of the market. Other

factors, including the proliferation of haptics in robotics, manufacturing and industrial automation, along with the development of efficient tools and devices for visually-impaired individuals, are expected to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global haptic technology market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component, feedback, technology and application.

Breakup by Component:

- Actuators
- Drivers and Controllers
- Software
- Others

Breakup by Feedback:

- Tactile
- Force

Breakup by Technology:

- Captive
- Resistive
- Others

Breakup by Application:

- Automotive and Transportation
- Consumer Electronics
- Education and Research
- Gaming
- Healthcare
- Engineering
- 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 report has also analysed the competitive landscape of the market with some of the key players being 3d Systems Corporation, Haption, Immersion Corporation, Johnson Electric Holdings Limited, Microchip Technology Inc., ON Semiconductor Corporation, Precision Microdrives Ltd., Senseg Oy (O-film Global HK Trading Limited), SMK Corporation, Synaptics Incorporated, Tactus Technology Inc., Texas Instruments Incorporated and Ultrahaptics.

Key Questions Answered in This Report

1. What was the size of the global haptic technology market in 2022?
2. What is the expected growth rate of the global haptic technology market during 2023-2028?

3. What are the key factors driving the global haptic technology market?
4. What has been the impact of COVID-19 on the global haptic technology market?
5. What is the breakup of the global haptic technology market based on the component?
6. What is the breakup of the global haptic technology market based on the feedback?
7. What is the breakup of the global haptic technology market based on the application?
8. What are the key regions in the global haptic technology market?
9. Who are the key players/companies in the global haptic technology market?

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