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Global Soft Haptic Actuators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Soft Haptic Actuators market size was valued at US$ 556 million in 2025 and is forecast to a readjusted size of US$ 1653 million by 2032 with a CAGR of 16.8% during review period.

In 2025, global Soft Haptic Actuator output reached about 90 million units and global capacity of around 110 million units. The average price is about USD 6 per unit, with gross margins near 39%. Soft Haptic Actuators are compliant, deformable actuation devices designed to generate tactile feedback, force sensations, vibration, pressure, stretching, or motion cues through soft materials rather than rigid mechanical components. They are widely used in wearable devices, virtual reality (VR), augmented reality (AR), teleoperation systems, soft robotics, medical rehabilitation equipment, electronic skin, and human-machine interfaces. Soft haptic actuators are typically based on technologies such as pneumatic artificial muscles, dielectric elastomer actuators, electroactive polymers, shape memory alloys, hydrogels, liquid crystal elastomers, magnetic soft actuators, and soft vibrotactile systems. The supply chain begins with upstream suppliers of elastomers (silicone rubber, polyurethane, Ecoflex), conductive materials (carbon nanotubes, graphene, silver nanowires, conductive inks), smart materials (electroactive polymers, hydrogels, shape memory alloys), magnetic particles, sensors, microelectronics, and control chips. Midstream manufacturers integrate these materials into soft actuator components, haptic modules, wearable feedback systems, and robotic interfaces through processes such as molding, additive manufacturing, soft lithography, textile integration, and flexible electronics assembly. Downstream customers include VR/AR equipment manufacturers, wearable technology companies, medical device producers, consumer electronics brands, industrial robotics firms, defense organizations, automotive HMI developers, and research institutions that utilize

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soft haptic technologies for immersive interaction, remote operation, rehabilitation, training, and advanced human-machine communication.

This report is a detailed and comprehensive analysis for global Soft Haptic Actuators market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Soft Haptic Actuators market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Soft Haptic Actuators market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Soft Haptic Actuators market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Soft Haptic Actuators market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Soft Haptic Actuators

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Soft Haptic Actuators market based on the

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following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HaptX, SenseGlove, Artimus Robotics, Novasentis, Festo, bHaptics, TDK Corporation, Nidec Corporation, AAC Technologies, Jinlong Machinery, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Soft Haptic Actuators market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Vibrotactile Actuators

Pressure Feedback Actuators

Skin Stretch Actuators

Force Feedback Actuators

Others

Market segment by Response Speed

%oO%10 ms

10?50 ms

50?200 ms

>200 ms

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Market segment by Application

- VR/AR Systems
- Healthcare
- Consumer Wearables
- Soft Robotics
- Teleoperation
- Others

Major players covered

- HaptX
- SenseGlove
- Artimus Robotics
- Novasentis
- Festo
- bHaptics
- TDK Corporation
- Nidec Corporation
- AAC Technologies
- Jinlong Machinery

Market segment by region, regional analysis covers

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North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Soft Haptic Actuators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Soft Haptic Actuators, with price, sales quantity, revenue, and global market share of Soft Haptic Actuators from 2021 to 2026.

Chapter 3, the Soft Haptic Actuators competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Soft Haptic Actuators breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Soft Haptic Actuators market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Soft Haptic

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Actuators.

Chapter 14 and 15, to describe Soft Haptic Actuators sales channel, distributors, customers, research findings and conclusion.

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