

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tactile Sensor Arrays for Embodied AI Dexterous Hands market size is expected to reach \$ 651 million by 2032, rising at a market growth of 13.6% CAGR during the forecast period (2026-2032).

In 2025, global sales of tactile sensor arrays for embodied AI dexterous hands are projected to reach approximately 900,000 units, with an average selling price of around \$300 per unit.

Tactile sensor arrays for embodied AI dexterous hands are distributed sensing components integrated into robot fingertips, palms, or flexible skin surfaces. Utilizing technologies such as capacitance, piezoresistance, optics, and magnetoelasticity, these arrays capture data on pressure, shear force, slippage, surface texture, and contact status. They serve as critical sensing components enabling humanoid robots to execute fine-grained manipulation, achieve compliant control, and facilitate safe human-robot interaction.

These tactile sensor arrays (often referred to as 'electronic skin') act as a 'rapid tactile feedback loop' connecting the AI ??brain to the physical world, playing a pivotal role in enabling anthropomorphic, precision-oriented operations. Currently, the role of tactile perception is evolving from an 'optional feature' into an 'intelligent standard configuration.' The upstream segment of this industry encompasses the R&D of core components?including flexible materials, Micro-Electro-Mechanical Systems (MEMS), and sensor array chips. The downstream segment connects directly to robot body manufacturing, as well as various embodied AI application scenarios involving multimodal operations and large-scale model training across sectors such as industrial

automation, logistics, and domestic services.

This report studies the global Tactile Sensor Arrays for Embodied AI Dexterous Hands production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tactile Sensor Arrays for Embodied AI Dexterous Hands and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Tactile Sensor Arrays for Embodied AI Dexterous Hands that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands total production and demand, 2021-2032, (K Units)

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands total production value, 2021-2032, (USD Million)

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Tactile Sensor Arrays for Embodied AI Dexterous Hands domestic production, consumption, key domestic manufacturers and share

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Tactile Sensor Arrays for Embodied AI Dexterous Hands market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Pressure Profile Systems (US), Tekscan (US), SynTouch (US), Sensel (US), XELA Robotics (JP), Nitta Corporation (JP), Wacoh-Tech (JP), Touchence (JP), Tacterion (DE), Touchlab (GB), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Tactile Sensor Arrays for Embodied AI Dexterous Hands market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands Market, Segmentation by Type:

Capacitive Tactile Sensor Arrays

Piezoresistive Tactile Sensor Arrays

Optical/Gel Tactile Sensor Arrays

Magnetic Elastomer Tactile Sensor Arrays

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands Market, Segmentation by Number of Contacts:

8?8 or Below Taxel Matrix

16?16?32?32 Taxel Matrix

64?64 and Above Taxel Matrix

Other Custom Matrix

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands Market, Segmentation by Technology:

Pressure/Normal Force Sensing

Shear/Slip Sensing

Texture/Vibration Sensing

Multimodal Tactile Sensing

Global Tactile Sensor Arrays for Embodied AI Dexterous Hands Market, Segmentation by Application:

Humanoid Dexterous Hands

Industrial Adaptive Gripping

Teleoperation and Haptics

Medical Rehabilitation Robots

Companies Profiled:

Pressure Profile Systems (US)

Tekscan (US)

SynTouch (US)

Sensel (US)

XELA Robotics (JP)

Nitta Corporation (JP)

Wacoh-Tech (JP)

Touchence (JP)

Tacterion (DE)

Touchlab (GB)

WEISS Robotics (DE)

Pasini Sensor Technology (CN)

TacSense Technology (CN)

Bota Systems (CH)

Key Questions Answered:

1. How big is the global Tactile Sensor Arrays for Embodied AI Dexterous Hands market?

2. What is the demand of the global Tactile Sensor Arrays for Embodied AI Dexterous Hands market?
3. What is the year over year growth of the global Tactile Sensor Arrays for Embodied AI Dexterous Hands market?
4. What is the production and production value of the global Tactile Sensor Arrays for Embodied AI Dexterous Hands market?
5. Who are the key producers in the global Tactile Sensor Arrays for Embodied AI Dexterous Hands market?
6. What are the growth factors driving the market demand?

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