

Global Humanoid Tactile Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Humanoid Tactile Sensor market size is expected to reach \$ 412 million by 2032, rising at a market growth of 17.4% CAGR during the forecast period (2026-2032).

Humanoid tactile sensors are sensing devices that simulate the tactile functions of human skin, including piezoresistive, capacitive, piezoelectric, photoelectric, and magnetoelectric Hall effect sensors. From a product form perspective, tactile sensors are mainly divided into three categories: First, array-type tactile sensors, which utilize piezoresistive or capacitive principles to construct a pressure distribution image (i.e., 'tactile pixels') in the fingertip area, enabling robots to perceive the shape and sliding tendency of objects, achieving flexible grasping; second, six-dimensional force/torque sensors, which measure the overall force and torque at the end effector, and are the core for robots to achieve precision assembly, force-position hybrid control, and bipedal balance; and third, flexible electronic skin, which uses stretchable materials to achieve large-area, fully curved surface coverage, capable of sensing multi-dimensional physical quantities such as pressure, temperature, and humidity.

In 2025, global Humanoid Tactile Sensor sales reached approximately 428 K Units, with an average global market price of around 295 US\$/Unit. Production capacity reached 1,000 K Units, with a gross profit margin of approximately 45%.

Upstream applications extend from traditional pressure-sensitive materials to flexible substrates, conductive voltage-sensitive layers, TFT active matrix, Hall arrays, elastomer packaging, edge computing, and haptic software platforms. JDI achieves high-resolution flexible haptics with LTPS TFT active matrix, Pasini constructs multi-dimensional haptic units using 6D Hall array technology, XELA packages the uSkin sensor and uAi software into a complete haptic system, and Meta continues to advance

research platforms such as DIGIT, ReSkin, and Digit Plexus. Downstream value is more concentrated in dexterous hands, humanoid robots, industrial end effectors, surgical robots, and teleoperation systems. SynTouch has already used BioTac in autonomous robots, teleoperation, surgical robots, and prosthetic hands.

This report studies the global Humanoid Tactile Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Humanoid Tactile Sensor 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 Humanoid Tactile Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Humanoid Tactile Sensor total production and demand, 2021-2032, (K Units)

Global Humanoid Tactile Sensor total production value, 2021-2032, (USD Million)

Global Humanoid Tactile Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Humanoid Tactile Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Humanoid Tactile Sensor domestic production, consumption, key domestic manufacturers and share

Global Humanoid Tactile Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Humanoid Tactile Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Humanoid Tactile Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Humanoid Tactile Sensor 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 SynTouch, Tekscan Group, JDI, XELA Robotics, Novasentis, Touchence, Meta (Facebook), Zhejiang Fulai New Materials, Hubei Huawei Intelligent, Beijing Tashan Technology, 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 Humanoid Tactile Sensor 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 Humanoid Tactile Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Humanoid Tactile Sensor Market, Segmentation by Type:

Piezoresistive Type

Capacitive Type

Piezoelectric Type

Photoelectric Type

Inductive Type

Global Humanoid Tactile Sensor Market, Segmentation by Flexible Substrates:

PI

PDMS

PET

Global Humanoid Tactile Sensor Market, Segmentation by Installation Location:

Fingertip Type

Fingerpad and Joint Type

Palm Type

Others

Global Humanoid Tactile Sensor Market, Segmentation by Application:

Dexterous Hands

Humanoid Robots

Industrial Grippers

Surgical Robots

Others

Companies Profiled:

SynTouch

Tekscan Group

JDI

XELA Robotics

Novasentis

Touchence

Meta (Facebook)

Zhejiang Fulai New Materials

Hubei Huaweike Intelligent

Beijing Tashan Technology

Shenzhen ModuTech

PaXini Tech

Shenzhen Sycsense Technology

Shenzhen Ensuring Technology

Dongguan Moxian Technology

Shenzhen Dobot

Shenzhen LEGACT Technology

Shenzhen New Degree Technology

Shenzhen Daimon Robotics Technology

Suzhou Hangkai Microelectronics Technology

Hanwei Electronics Group

Shanghai Hapttech Robot Technology

Shanghai Xense Robotics Technology

Guangzhou PhlexSense

Shanghai ViTai Technology

Key Questions Answered:

1. How big is the global Humanoid Tactile Sensor market?
2. What is the demand of the global Humanoid Tactile Sensor market?
3. What is the year over year growth of the global Humanoid Tactile Sensor market?
4. What is the production and production value of the global Humanoid Tactile Sensor market?
5. Who are the key producers in the global Humanoid Tactile Sensor market?
6. What are the growth factors driving the market demand?

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