

Global Flexible Tactile Sensors for Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flexible Tactile Sensors for Robots market size is expected to reach \$ 822 million by 2032, rising at a market growth of 15.4% CAGR during the forecast period (2026-2032).

Flexible tactile sensors for robots, also known as electronic skin, are intelligent sensing systems that mimic the tactile perception mechanisms of biological skin, aiming to endow robots with human-like tactile functions. This system integrates advanced flexible electronic materials, nanosensors, and microfabrication technologies to achieve highly sensitive detection and real-time feedback of environmental variables such as contact force, temperature, and humidity. The design of flexible tactile sensors for robots not only enhances their environmental interaction capabilities and operational accuracy but also strengthens their adaptability and safety in complex working environments. Application scenarios cover multiple fields, including medical monitoring, smart wearables, robotics, and virtual reality. With the rapid development of the robotics industry, flexible tactile sensors, which endow robots with 'tactile senses,' have become one of the most watched areas in the industry chain. Flexible tactile sensors are crucial for robots. When a robot comes into contact with an external object, the flexible tactile sensor transmits electrical signals to the robot's 'brain,' allowing the 'brain' to perceive information such as the texture, grain, temperature, and shape of the contacted object, making the robot's movements more flexible and efficient. Currently, flexible tactile sensors utilize various technical approaches, including piezoresistive, capacitive, and piezoelectric sensors. Case Applications: ABB YuMi Collaborative Robot, ShadowRobot Dexterous Hand, UBTECH 'Walker X' Home Robot. Downstream Customers: Xiaomi, Leisai Intelligent, Zhiyuan Robotics, Huawei Humanoid Robot, etc. Currently, the downstream application of electronic skin is in its early stages, with the robotics industry mainly focusing on trial production and small-batch production. Hanwei Technology: Its subsidiary, Suzhou Nengsida, has developed eight series of flexible sensor products

and currently has four mature production lines, including two printing lines, one assembly line, and one testing line. The company's flexible sensor segment has ultra-clean printing and assembly lines with an annual production capacity of over ten million units. Current capacity utilization is high, and the company is planning to add production lines to increase capacity based on demand growth, with plans to complete the construction and trial operation of new production lines in the first half of 2025.

Tashan Technology: In 2024, the company's electronic skin began mass production and shipment, demonstrating its large-scale mass production capability.

Shenhao Technology: Its independently developed non-contact electronic skin sensor is currently being used in small batches in its own intelligent robot products, such as switch room operation robots, to achieve obstacle avoidance and ensure safety.

Moxun Technology: In January 2025, it partnered with Pudu Robotics to apply Moxun's flexible pressure sensor technology to the robotic hand of Pudu's latest humanoid robot, the PUDU D9.

Fulai New Materials: On November 27, 2025, the company's independently developed 'electronic skin' product completed multiple iterations and achieved mass production. Currently, it has dozens of domestic and international clients, some of whom have explicitly requested bulk orders. Its main focus is on: in high-end intelligent manufacturing, enabling humanoid robots and dexterous hands to perform precision assembly tasks previously only achievable by human hands; and in intelligent companions, providing tactile coverage from fingertips to the whole body.

In September 2025, the company established a wholly-owned subsidiary, Apex Sensing LLC, in California, USA, and set up a business and technical team there, already achieving small-batch order progress in the North American market.

In 2025, the global production of Flexible Tactile Sensors for Robots will reach 10.25 million units, with an average selling price of US\$28.42 per unit. The company's annual production capacity will be tens of millions of units, with a gross profit margin of approximately 29.35%-30.47%.

In the field of intelligent robotics and biomimetic systems, flexible tactile sensors for robots are becoming a key infrastructure driving machine intelligence towards 'human-like perception.' By endowing robots with tactile, pressure, temperature, and even pain perception similar to human skin, flexible tactile sensors make human-machine collaboration safer, more natural, and more intelligent. From a technical perspective, flexible tactile sensors for robots mostly employ distributed flexible sensor networks, including flexible piezoresistive/capacitive arrays, temperature/humidity sensing units, stretchable conductors, and artificial neural interface circuits, supplemented by embedded AI chips and edge computing modules to achieve multimodal perception and rapid local response.

This report studies the global Flexible Tactile Sensors for Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flexible

Tactile Sensors for Robots 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 Flexible Tactile Sensors for Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Flexible Tactile Sensors for Robots total production and demand, 2021-2032, (K Units)

Global Flexible Tactile Sensors for Robots total production value, 2021-2032, (USD Million)

Global Flexible Tactile Sensors for Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Flexible Tactile Sensors for Robots consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Flexible Tactile Sensors for Robots domestic production, consumption, key domestic manufacturers and share

Global Flexible Tactile Sensors for Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Flexible Tactile Sensors for Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Flexible Tactile Sensors for Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Flexible Tactile Sensors for Robots 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 Tekscan, JDI, Syntouch, Pressure Profile Systems, XELA Robotics, Loomia, Interlink Electronics, Flexniss, Contactile, Sanctuary AI, 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 Flexible Tactile Sensors for Robots 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 Flexible Tactile Sensors for Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flexible Tactile Sensors for Robots Market, Segmentation by Type:

Resistive

Capacitive

Thermal

Piezoelectric

Others

Global Flexible Tactile Sensors for Robots Market, Segmentation by Flexible Substrate:

Polydimethylsiloxane (PDMS)

Polyimide (PI)

Polyethylene Terephthalate (PET)

Others

Global Flexible Tactile Sensors for Robots Market, Segmentation by Manufacturing Process:

Photolithography and Silicon Etching Technology

3D Printing

Inkjet Printing

Screen Printing

Global Flexible Tactile Sensors for Robots Market, Segmentation by Application:

Industrial Robots

Medical Robots

Military Robots

Service Robots

Others

Companies Profiled:

Tekscan

JDI

Syntouch

Pressure Profile Systems

XELA Robotics

Loomia

Interlink Electronics

Flexniss

Contactile

Sanctuary AI

Shadow Robot

AIDIN ROBOTICS

Melexis

GelSight

Shenzhen Tacsense

Hanwei Electronics Group

PaXiniTech

Shenzhen Legact Technology Co., Ltd.

New Degree Technology

Hangzhou Shenhao Technology Co.,LTD.

Beijing Tashan Science And Technology Co., Ltd.

Moxian Technology (Dongguan) Co., Ltd

Sycsense Technology(Shenzhen) Co., Ltd.

ADD Industry(Zhejiang) CO., LTD.

Zhejiang Fulai New Material Co., Ltd.

Beijing Jingzhigan New Materials Co., Ltd.

Key Questions Answered:

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

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