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Global Flexible Tactile Sensors for Robots Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G4317147E350EN.html
Date: January 2026
Pages: 173
Price: US$ 3,480.00 (Single User License)
ID: G4317147E350EN

Abstracts

According to our (Global Info Research) latest study, the global Flexible Tactile Sensors for Robots market size was valued at US$ 300 million in 2025 and is forecast to a readjusted size of US$ 822 million by 2032 with a CAGR of 15.4% during review period.

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.

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This report is a detailed and comprehensive analysis for global Flexible Tactile Sensors for Robots 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 Flexible Tactile Sensors for Robots market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Flexible Tactile Sensors for Robots 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 Flexible Tactile Sensors for Robots 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 Flexible Tactile Sensors for Robots 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 Flexible Tactile Sensors for Robots
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 Flexible Tactile Sensors for Robots market based on the 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 Tekscan, JDI, Syntouch, Pressure Profile Systems, XELA Robotics, Loomia, Interlink Electronics, Flexniss, Contactile, Sanctuary AI, etc.

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

Market Segmentation

Flexible Tactile Sensors for Robots 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

- Resistive
- Capacitive
- Thermal
- Piezoelectric
- Others

Market segment by Flexible Substrate

- Polydimethylsiloxane (PDMS)
- Polyimide (PI)
- Polyethylene Terephthalate (PET)
- Others

Market segment by Manufacturing Process

- Photolithography and Silicon Etching Technology

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3D Printing

Inkjet Printing

Screen Printing

Market segment by Application

Industrial Robots

Medical Robots

Military Robots

Service Robots

Others

Major players covered

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.

Market segment by region, regional analysis covers

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 Flexible Tactile Sensors for Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flexible Tactile Sensors for Robots, with price, sales quantity, revenue, and global market share of Flexible Tactile Sensors for Robots from 2021 to 2026.

Chapter 3, the Flexible Tactile Sensors for Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flexible Tactile Sensors for Robots 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 Flexible Tactile Sensors for Robots 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 Flexible Tactile Sensors for Robots.

Chapter 14 and 15, to describe Flexible Tactile Sensors for Robots sales channel,

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distributors, customers, research findings and conclusion.

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