

Global Robot Electronic Skin 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 Robot Electronic Skin 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.

Electronic skin, also known as a flexible tactile sensor, is an intelligent sensing system that mimics the tactile perception mechanism of biological skin, aiming to endow robots with human-like tactile functions. This system integrates advanced flexible electronic materials, nanosensors, and microfabrication technology to achieve highly sensitive detection and real-time feedback of environmental variables such as contact force, temperature, and humidity. The design of electronic skin not only enhances the robot's environmental interaction capabilities and operational precision but also strengthens its adaptability and safety in complex working environments, with applications covering multiple fields such as medical monitoring, smart wearables, robotics, and virtual reality. With the rapid development of the robotics industry, electronic skin, which gives robots 'tactile senses,' has become one of the most watched areas in the industry chain.

Electronic skin is crucial for robots. When a robot comes into contact with an external object, the 'skin' transmits electrical signals to the robot's 'brain,' allowing the 'brain' to perceive information such as the texture, pattern, temperature, and shape of the object, making the robot's movements more flexible and effective. The core of electronic skin is the flexible tactile sensor, currently employing various technical approaches such as piezoresistive, capacitive, and piezoelectric sensors. Electronic skin generally consists of a flexible substrate, an active functional layer, dielectric materials, and electrodes. Existing substrate materials include polyimide (PI), polydimethylsiloxane (PDMS), and polyethylene terephthalate (PET). Main application scenarios are as follows: Dexterous hands and bionic fingertips: used for precision grasping, force feedback control,

temperature sensing, etc., to achieve functions such as recognizing object shape, hardness, and sliding. Case applications: ABB YuMi collaborative robot, ShadowRobot dexterous hand, UBTECH 'Walker X' home robot. Downstream customers: Xiaomi, Leadshine Intelligent, Zhiyuan Robotics, Huawei humanoid robots, etc. In 2025, global Robot Electronic Skin production reached 3.7501 million square meters, with an average selling price of US\$77.68 per square meter. Monthly production for companies was 5,000-6,000 square meters, with a gross profit margin of approximately 29.35%-30.47%.

In the field of intelligent robots and bionic systems, electronic skin is 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, electronic skin makes human-machine collaboration safer, more natural, and more intelligent. From a technological perspective, electronic skin for robots often employs 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.

Currently, the downstream applications of electronic skin are in their early stages, with the robotics industry primarily focused on trial production and small-batch manufacturing. Hanwei Technology: Its subsidiary, Suzhou Nengsida, has developed eight series of flexible sensor products and currently operates four mature production lines, including two printing lines, one assembly line, and one testing line. The company's flexible sensor division boasts ultra-clean printing and assembly lines with an annual production capacity exceeding ten million units. Current capacity utilization is high, and the company is planning to add more 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 production capabilities. Shenhao Technology: Its independently developed non-contact electronic skin sensors are 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. Moxian Technology: In January 2025, Moxian Technology partnered with Pudu Robotics to apply its flexible pressure sensor technology to the robotic arm of Pudu's latest humanoid robot, the PUDU D9. Fulei 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.

The main applications are: 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 entire 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 progress in small-batch orders in the North American market.

This report is a detailed and comprehensive analysis for global Robot Electronic Skin 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 Robot Electronic Skin market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Robot Electronic Skin market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Robot Electronic Skin market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Robot Electronic Skin market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 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 Robot Electronic Skin
- 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 Robot Electronic Skin 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.

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

Market Segmentation

Robot Electronic Skin 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

Piezoresistive Type

Capacitive Type

Piezoelectric Type

Ionizing Type

Electromagnetic Type

Other

Market segment by Flexible Substrate

Polydimethylsiloxane (PDMS)

Polyimide (PI)

Polyethylene Terephthalate (PET)

Others

Market segment by Manufacturing Process

Photolithography and Silicon Etching Technology

3D Printing

Inkjet Printing

Screen Printing

Market segment by Application

Industrial Robotics

Medical Robotics

Service Robotics

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 Robot Electronic Skin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Robot Electronic Skin, with price, sales quantity, revenue, and global market share of Robot Electronic Skin from 2021 to 2026.

Chapter 3, the Robot Electronic Skin competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robot Electronic Skin 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 Robot Electronic Skin 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 Robot

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Chapter 14 and 15, to describe Robot Electronic Skin sales channel, distributors, customers, research findings and conclusion.

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