

# Global Robot Electronic Skin Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G168333BCCDCEN.html>

Date: January 2026

Pages: 185

Price: US\$ 4,480.00 (Single User License)

ID: G168333BCCDCEN

## Abstracts

The global Robot Electronic Skin 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). 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 studies the global Robot Electronic Skin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robot Electronic Skin 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 Robot Electronic Skin that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Robot Electronic Skin total production and demand, 2021-2032, (K Sqm)

Global Robot Electronic Skin total production value, 2021-2032, (USD Million)

Global Robot Electronic Skin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Robot Electronic Skin consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Robot Electronic Skin domestic production, consumption, key domestic manufacturers and share

Global Robot Electronic Skin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Robot Electronic Skin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Robot Electronic Skin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Robot Electronic Skin 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 Robot Electronic Skin market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Robot Electronic Skin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot Electronic Skin Market, Segmentation by Type:

Piezoresistive Type

Capacitive Type

Piezoelectric Type

Ionizing Type

Electromagnetic Type

Other

Global Robot Electronic Skin Market, Segmentation by Flexible Substrate:

Polydimethylsiloxane (PDMS)

Polyimide (PI)

Polyethylene Terephthalate (PET)

Others

#### Global Robot Electronic Skin Market, Segmentation by Manufacturing Process:

Photolithography and Silicon Etching Technology

3D Printing

Inkjet Printing

Screen Printing

#### Global Robot Electronic Skin Market, Segmentation by Application:

Industrial Robotics

Medical Robotics

Service Robotics

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 Robot Electronic Skin market?
2. What is the demand of the global Robot Electronic Skin market?
3. What is the year over year growth of the global Robot Electronic Skin market?
4. What is the production and production value of the global Robot Electronic Skin market?
5. Who are the key producers in the global Robot Electronic Skin market?
6. What are the growth factors driving the market demand?

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