

# Global Huamanooid Robot E-Skin Market Growth 2026-2032

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## Abstracts

The global Huamanooid Robot E-Skin market size is predicted to grow from US\$ 20.12 million in 2025 to US\$ 857 million in 2032; it is expected to grow at a CAGR of 72.3% from 2026 to 2032.

Flexible smart sensors refer to intelligent devices that integrate miniature sensor arrays using flexible substrate materials such as silicone rubber and nanocomposite materials. These sensors are capable of sensing physical quantities such as pressure, temperature, and strain, and are characterized by their thinness, high elasticity, and environmental adaptability. Bionic integrated systems—electronic skin—integrated with flexible sensors can simulate the tactile, temperature sensing, and interactive functions of human skin. In recent years, they have become a focus in the field of intelligent sensing, experiencing explosive market growth. Flexible tactile sensing systems, commonly known as 'electronic skin,' can simulate the sensory functions of human skin and provide real-time feedback. Application scenarios cover multiple fields such as medical monitoring, smart wearables, robotics, and virtual reality. With the rapid development of the humanoid robot 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 humanoid 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, temperature, and shape of the object, making the robot's movements more flexible and effective. The core of electronic skin is a flexible tactile sensor, currently employing various technological approaches including piezoresistive, capacitive, and piezoelectric. Electronic skin typically 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 include: 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 studies include: ABB YuMi collaborative robot, ShadowRobot dexterous hand, and UBTECH's 'Walker X' home robot. Downstream customers include: Xiaomi, Leadshine Intelligent, Zhiyuan Robotics, and Huawei humanoid robots. In 2025, global production of Humanoid Robot E-Skin reached 265,400 square meters, with an average selling price of \$77.5 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 Humanoid Robot E-Skin are in their early stages, with the robotics industry primarily focused on trial production and small-batch production.

**Hanwei Electronics Group:** Its subsidiary, Suzhou Starr Electronic Technology Co., Ltd., 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. Hanwei Technology has completed the engineering and industrialization of electronic skin manufacturing and possesses mass production capabilities. 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.

**Beijing Tashan Science and Technology Co., Ltd.:** In 2024, the company's electronic skin began mass production and shipment, demonstrating its capacity for large-scale mass production.

**Hangzhou Shenhao Technology Co., Ltd.:** 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.

Moxian Technology (Dongguan) Co., Ltd.: In January 2025, it partnered with Pudu Robotics to apply Moxian's flexible pressure sensor technology to the robotic arm of Pudu's newly launched PUDU D9, its first humanoid robot.

Zhejiang Fulai New Material Co., Ltd.: 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. 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, achieving progress in small-batch orders in the North American market.

LP Information, Inc. (LPI) ' newest research report, the “Huamanoïd Robot E-Skin Industry Forecast” looks at past sales and reviews total world Huamanoïd Robot E-Skin sales in 2025, providing a comprehensive analysis by region and market sector of projected Huamanoïd Robot E-Skin sales for 2026 through 2032. With Huamanoïd Robot E-Skin sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Huamanoïd Robot E-Skin industry.

This Insight Report provides a comprehensive analysis of the global Huamanoïd Robot E-Skin landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Huamanoïd Robot E-Skin portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Huamanoïd Robot E-Skin market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Huamanoïd Robot E-Skin and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Huamanoïd Robot E-Skin.

This report presents a comprehensive overview, market shares, and growth

opportunities of Humanoid Robot E-Skin market by product type, application, key manufacturers and key regions and countries.

**Segmentation by Type:**

Piezoresistive Type

Capacitive Type

Piezoelectric Type

Ionizing Type

Electromagnetic Type

Other

**Segmentation by Flexible Substrate:**

Polydimethylsiloxane (PDMS)

Polyimide (PI)

Polyethylene Terephthalate (PET)

Others

**Segmentation by Manufacturing Process:**

Photolithography and Silicon Etching Technology

3D Printing

Inkjet Printing

Screen Printing

### **Segmentation by Application:**

Dexterous Hands and Bionic Fingertips

Service Robots

### **This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report**

What is the 10-year outlook for the global Huamanoïd Robot E-Skin market?

What factors are driving Huamanoïd Robot E-Skin market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Huamanoïd Robot E-Skin market opportunities vary by end market size?

How does Huamanoïd Robot E-Skin break out by Type, by Application?

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