

Global Huamanoid Robot E-Skin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Huamanoid Robot E-Skin market size is expected to reach \$ 2518 million by 2032, rising at a market growth of 49.4% CAGR during the forecast period (2026-2032).

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 Huamanooid Robot E-Skin reached 1.61 million 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 Huamanooid 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.

This report studies the global Huamanooid Robot E-Skin production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Huamanoid Robot E-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 Huamanoid Robot E-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 Huamanoid Robot E-Skin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Huamanooid Robot E-Skin Market, Segmentation by Type:

Piezoresistive Type

Capacitive Type

Piezoelectric Type

Ionizing Type

Electromagnetic Type

Other

Global Huamanooid Robot E-Skin Market, Segmentation by Flexible Substrate:

Polydimethylsiloxane (PDMS)

Polyimide (PI)

Polyethylene Terephthalate (PET)

Others

Global Huamanooid Robot E-Skin Market, Segmentation by Manufacturing Process:

Photolithography and Silicon Etching Technology

3D Printing

Inkjet Printing

Screen Printing

Global Huamanooid Robot E-Skin Market, Segmentation by Application:

Dexterous Hands and Bionic Fingertips

Torso & Body Trunk

Face Region

Arms

Legs & Feet

Companies Profiled:

Tekscan

JDI

Syntouch

Pressure Profile Systems

XELA Robotics

Loomia

Interlink Electronics

Flexniss

Contactile

Sanctuary AI

Shadow Robot

AIDIN ROBOTICS

Melexis

GelSight

Touchlab

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.

Hubei Huaweike Intelligent Corp.,Ltd.

Tachin-Tech

Xense Robotics

Mingxin New Material Co.,Ltd.

Kuangda Technology Group Co.,Ltd.

Key Questions Answered:

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

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