

Global Robotic Skin Tactile Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robotic Skin Tactile Sensor market size is expected to reach \$ 8739 million by 2032, rising at a market growth of 25.8% CAGR during the forecast period (2026-2032).

A Robotic Skin Tactile Sensor is a flexible or semi-flexible sensing system integrated onto the surface of robots, robotic arms, dexterous hands, or humanoid robots to detect external physical stimuli such as pressure, touch, slip, shear force, vibration, temperature, and proximity. These sensors are commonly based on piezoresistive, capacitive, piezoelectric, optical, magnetic, or flexible electronic technologies and are often arranged in array structures for large-area coverage. Their primary purpose is to provide robots with human-like tactile perception capabilities for human-robot interaction, grasp control, collision detection, precision manipulation, and environmental awareness. The upstream of the robotic skin tactile sensor industry mainly includes suppliers of flexible substrates, conductive materials, MEMS chips, piezoelectric materials, graphene, carbon nanotubes, conductive polymers, ASIC chips, and flexible PCBs.

Robotic Skin Tactile Sensors are key sensing components that enable robots to achieve human-like tactile perception. They are part of the robot perception system and are responsible for detecting physical stimuli such as pressure, contact, slip, shear force, vibration, and temperature. These capabilities allow robots to perform safer, more precise, and more interactive operations. The development of this market is closely tied to humanoid robotics, collaborative robots, and advanced intelligent manufacturing. It is currently in an early high-growth phase, transitioning from laboratory validation to early-stage commercial deployment.

This report studies the global Robotic Skin Tactile Sensor demand, key companies, and key regions.

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

Highlights and key features of the study

Global Robotic Skin Tactile Sensor total market, 2021-2032, (USD Million)

Global Robotic Skin Tactile Sensor total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Robotic Skin Tactile Sensor total market, key domestic companies, and share, (USD Million)

Global Robotic Skin Tactile Sensor revenue by player, revenue and market share 2021-2026, (USD Million)

Global Robotic Skin Tactile Sensor total market by Type, CAGR, 2021-2032, (USD Million)

Global Robotic Skin Tactile Sensor total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Robotic Skin Tactile Sensor market based on the following parameters - company overview, revenue, 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, Flexniss, Contactile, Sanctuary AI, Shadow Robot, AIDIN ROBOTICS, 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 Robotic Skin Tactile Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Robotic Skin Tactile Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robotic Skin Tactile Sensor Market, Segmentation by Type:

Piezoresistive Tactile Sensor

Capacitive Tactile Sensor

Piezoelectric Tactile Sensor

Optical Tactile Sensor

Others

Global Robotic Skin Tactile Sensor Market, Segmentation by Structural Configuration:

Flexible Electronic Skin

Stretchable Electronic Skin

Tactile Sensor Array

Modular Tactile Skin

Others

Global Robotic Skin Tactile Sensor Market, Segmentation by Detected Parameter:

Pressure Sensing Type

Force Sensing Type

Slip Detection Type

Temperature-Tactile Integrated Type

Others

Global Robotic Skin Tactile Sensor Market, Segmentation by Material System:

Silicon-Based Tactile Sensor

Polymer Flexible Tactile Sensor

Graphene Tactile Sensor

Carbon Nanotube Tactile Sensor

Others

Global Robotic Skin Tactile Sensor Market, Segmentation by Application:

Cobots

Industrial Robots

Humanoid Robots

Medical Robots

Others

Companies Profiled:

Tekscan

JDI

Syntouch

Pressure Profile Systems

XELA Robotics

Flexniss

Contactile

Sanctuary AI

Shadow Robot

AIDIN ROBOTICS

GelSight

Shenzhen Tacsense

Hanwei Electronics Group

PaXiniTech

Shenzhen Legact Technology Co., Ltd.

New Degree Technology

Tashan Science And Technology Co., Ltd.

Moxian Technology (Dongguan) Co., Ltd

Sycsense Technology(Shenzhen) Co., Ltd.

Fulai New Material Co., Ltd.

Beijing Jingzhigan New Materials Co., Ltd.

Baumer

Bosch

Canatu

Touchence

Key Questions Answered

1. How big is the global Robotic Skin Tactile Sensor market?
2. What is the demand of the global Robotic Skin Tactile Sensor market?
3. What is the year over year growth of the global Robotic Skin Tactile Sensor market?
4. What is the total value of the global Robotic Skin Tactile Sensor market?
5. Who are the Major Players in the global Robotic Skin Tactile Sensor market?
6. What are the growth factors driving the market demand?

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