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Global Multi-dimensional Tactile Sensor for Robotics Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G3CAE33FC757EN.html
Date: July 2026
Pages: 118
Price: US$ 4,480.00 (Single User License)
ID: G3CAE33FC757EN

Abstracts

The global Multi-dimensional Tactile Sensor for Robotics market size is expected to reach $ 252 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

In 2025, global Multi-dimensional Tactile Sensor for Robotics production reached approximately 315 k units with an average global market price of around US$350 per unit. The upstream of the robotics multi-dimensional tactile sensor industry primarily includes key components such as sensor elements, electronic components, and signal processing chips, which are concentrated in the fields of electronic manufacturing, semiconductor, and precision instrumentation. The midstream involves the research, manufacturing, and integration of sensors, with product consumption closely related to downstream applications. For example, in the industrial robotics sector, each device consumes an average of about 5-10 multi-dimensional tactile sensors per unit, accounting for 30-40% of the total.

Multi-dimensional Tactile Sensor for Robotics is a highly integrated sensor system that simulates human tactile perception, providing robots with multi-dimensional information about object shape, hardness, and texture. By capturing micro-deformations and pressure distributions during contact with objects, this sensor converts these data into high-resolution tactile signals, enabling robots to perceive their surroundings more accurately. The application of multi-dimensional tactile sensors allows robots to perform more delicate and complex tasks, such as handling fragile items, sensing object surface characteristics, and engaging in human-robot interaction, thereby enhancing their operational capabilities and adaptability and broadening their application in various fields.

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Multi-dimensional tactile sensors for robotics will become core components for humanoid robots to achieve delicate manipulation and human-machine collaboration in the future, enabling enterprises to significantly increase product value-added and revenue scale by transitioning from single component sales to complete system solutions equipped with tactile sensing capabilities. With the weakening demographic dividend and rising labor costs, there is an urgent market demand for sensors possessing high-precision force control and multi-dimensional perception capabilities; by utilizing independently developed high-density array technology to replace imported products, enterprises can not only reduce production costs but also establish pricing advantages in high-end fields such as intelligent manufacturing and healthcare, thereby improving profit structures. Technological iteration will drive products towards miniaturization, flexibility, and multi-functional integration, such as compressing sensor thickness to the millimeter level and integrating visuo-tactile functions, which expands the application scope in industrial automation and complex environments, opening up new growth points for enterprises. Furthermore, strong national policy support for the robotics industry will accelerate the commercial landing of technologies, prompting enterprises to strengthen cooperation with scientific research institutions to overcome mass production challenges, thereby further reducing marginal costs and enhancing market competitiveness through scaled production.

This report studies the global Multi-dimensional Tactile Sensor for Robotics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Multi-dimensional Tactile Sensor for Robotics 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 Multi-dimensional Tactile Sensor for Robotics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Multi-dimensional Tactile Sensor for Robotics total production and demand, 2021-2032, (K Units)
Global Multi-dimensional Tactile Sensor for Robotics total production value, 2021-2032, (USD Million)
Global Multi-dimensional Tactile Sensor for Robotics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

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Global Multi-dimensional Tactile Sensor for Robotics consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Multi-dimensional Tactile Sensor for Robotics domestic production, consumption, key domestic manufacturers and share
Global Multi-dimensional Tactile Sensor for Robotics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Multi-dimensional Tactile Sensor for Robotics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Multi-dimensional Tactile Sensor for Robotics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Multi-dimensional Tactile Sensor for Robotics 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 SynTouch, Weiss Robotics, Pressure Profile Systems, GelSight, FUTEK Advanced Sensor Technology, AIDIN ROBOTICS, Daimeng (Shenzhen) Robot Technology, PaXini Technology (Shenzhen), Shanghai ViTai Robotics, Hong Kong Science & Technology Parks, 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 Multi-dimensional Tactile Sensor for Robotics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) 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 Multi-dimensional Tactile Sensor for Robotics Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Multi-dimensional Tactile Sensor for Robotics Market, Segmentation by Type:

Millimeter Level

Others

Global Multi-dimensional Tactile Sensor for Robotics Market, Segmentation by Measurement Dimension:

3D Force Tactile Sensor

3D Force + 3D Torque Tactile Sensor

2D Force + 2D Torque Tactile Sensor

Global Multi-dimensional Tactile Sensor for Robotics Market, Segmentation by Resolution:

?5 mm/pixel

2?5 mm/pixel

0.5?2 mm/pixel

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?0.5 mm/pixel

Global Multi-dimensional Tactile Sensor for Robotics Market, Segmentation by Application:

Embodied Intelligent

Smart Logistics

Smart Manufacturing

Experimental Automation

Others

Companies Profiled:

SynTouch

Weiss Robotics

Pressure Profile Systems

GelSight

FUTEK Advanced Sensor Technology

AIDIN ROBOTICS

Daimeng (Shenzhen) Robot Technology

PaXini Technology (Shenzhen)

Shanghai ViTai Robotics

Hong Kong Science & Technology Parks

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Beijing Tashan Technology

Key Questions Answered:

1. How big is the global Multi-dimensional Tactile Sensor for Robotics market?
2. What is the demand of the global Multi-dimensional Tactile Sensor for Robotics market?
3. What is the year over year growth of the global Multi-dimensional Tactile Sensor for Robotics market?
4. What is the production and production value of the global Multi-dimensional Tactile Sensor for Robotics market?
5. Who are the key producers in the global Multi-dimensional Tactile Sensor for Robotics market?
6. What are the growth factors driving the market demand?

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