

# Global Tactile Sensor for Robot Hand Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Tactile Sensor for Robot Hand market size is expected to reach \$ 2824 million by 2032, rising at a market growth of 21.0% CAGR during the forecast period (2026-2032).

In 2025, global Tactile Sensor for Robot Hand production reached approximately 16.00 million units, with an average global market price of around US\$45 per unit.

The gross profit margin of major companies in the industry is between 30% – 52%.

In 2025, the global production capacity of Tactile Sensor for Robot Hand was approximately 21.33 million units.

Tactile Sensor for Robot Hand is a sensing component installed on robotic fingers or grippers to detect contact force, pressure distribution, texture, slip, and object interaction. It helps robot hands improve grasping stability, manipulation accuracy, and environmental perception in humanoid robots, service robots, and precision automation.

The industrial chain includes upstream flexible substrates, pressure-sensitive materials, MEMS chips, conductive films, ICs, connectors, and encapsulation materials. Midstream covers sensor design, microfabrication, lamination, calibration, assembly, and testing. Downstream applications mainly include humanoid robot hands, collaborative grippers, medical robots, service robots, and intelligent manufacturing systems.

This report studies the global Tactile Sensor for Robot Hand production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Tactile Sensor for Robot Hand total production and demand, 2021-2032, (K Units)

Global Tactile Sensor for Robot Hand total production value, 2021-2032, (USD Million)

Global Tactile Sensor for Robot Hand production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Tactile Sensor for Robot Hand consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Tactile Sensor for Robot Hand domestic production, consumption, key domestic manufacturers and share

Global Tactile Sensor for Robot Hand production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Tactile Sensor for Robot Hand production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Tactile Sensor for Robot Hand production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Tactile Sensor for Robot Hand 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 XELA Robotics, GelSight, SynTouch, OnRobot, Robotiq, Weiss Robotics, Analog Devices, Tekscan, Pressure Profile Systems (PPS), Bota Systems, 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 Tactile Sensor for Robot Hand 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 Tactile Sensor for Robot Hand Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Tactile Sensor for Robot Hand Market, Segmentation by Type:

Resistive Tactile Sensor

Capacitive Tactile Sensor

Piezoelectric Tactile Sensor

#### Global Tactile Sensor for Robot Hand Market, Segmentation by Sensor Structure:

Single-point Tactile Sensor

Array Tactile Sensor

Flexible Tactile Sensor

Global Tactile Sensor for Robot Hand Market, Segmentation by Pressure Range:

Low Pressure Sensor (<math>< 10\text{kPa}</math>)

Medium Pressure Sensor (10–100kPa)

High Pressure Sensor (>100kPa)

Global Tactile Sensor for Robot Hand Market, Segmentation by Application:

Humanoid Robot

Collaborative Robot

Medical Robot

Other

Companies Profiled:

XELA Robotics

GelSight

SynTouch

OnRobot

Robotiq

Weiss Robotics

Analog Devices

Tekscan

Pressure Profile Systems (PPS)

Bota Systems

Interlink Electronics

Kunwei Technology

Bluepoint Touch

Zhuolan Technology

NextVPU

Zhiyuan Robotics

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#### Key Questions Answered:

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

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