

Global Tactile Sensor for Robot Hand Market Growth 2026-2032

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Abstracts

The global Tactile Sensor for Robot Hand market size is predicted to grow from US\$ 704 million in 2025 to US\$ 2864 million in 2032; it is expected to grow at a CAGR of 22.3% from 2026 to 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.

United States market for Tactile Sensor for Robot Hand is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Tactile Sensor for Robot Hand is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Tactile Sensor for Robot Hand is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Tactile Sensor for Robot Hand players cover XELA Robotics, GelSight, SynTouch, OnRobot, Robotiq, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Tactile Sensor for Robot Hand 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 Tactile Sensor for Robot Hand portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Tactile Sensor for Robot Hand market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Tactile Sensor for Robot Hand 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 Tactile Sensor for Robot Hand.

This report presents a comprehensive overview, market shares, and growth opportunities of Tactile Sensor for Robot Hand market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Resistive Tactile Sensor

Capacitive Tactile Sensor

Piezoelectric Tactile Sensor

Segmentation by Sensor Structure:

Single-point Tactile Sensor

Array Tactile Sensor

Flexible Tactile Sensor

Segmentation by Pressure Range:

Low Pressure Sensor ($<10\text{kPa}$)

Medium Pressure Sensor ($10\text{--}100\text{kPa}$)

High Pressure Sensor ($>100\text{kPa}$)

Segmentation by Application:

Humanoid Robot

Collaborative Robot

Medical Robot

Other

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.

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 Addressed in this Report

What is the 10-year outlook for the global Tactile Sensor for Robot Hand market?

What factors are driving Tactile Sensor for Robot Hand market growth, globally and by region?

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

How do Tactile Sensor for Robot Hand market opportunities vary by end market size?

How does Tactile Sensor for Robot Hand break out by Type, by Application?

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