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Global Dexterous Hand Tactile Sensor Market Growth 2026-2032

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Abstracts

The global Dexterous Hand Tactile Sensor market size is predicted to grow from US$ 18.14 million in 2025 to US$ 62.66 million in 2032; it is expected to grow at a CAGR of 19.6% from 2026 to 2032.

Dexterous hand tactile sensors are high-precision sensing devices designed for installation on the fingers or palms of humanoid robots. By detecting parameters such as pressure, force, torque, slip, vibration, temperature, and object surface characteristics during contact, they enable the robot to perceive the state of the object being grasped and execute fine manipulation control.

These sensors typically consist of flexible sensing materials, miniature sensing units, signal acquisition circuitry, flexible printed circuit boards (FPCBs), packaging structures, and data processing algorithms. They convert mechanical stimuli resulting from contact between the robot's fingers and an object into electrical signals, which are fed back to the robot's control system; this allows the robot to gauge grasping force, identify object shapes, monitor contact status, and achieve tactile feedback capabilities similar to those of a human hand.

Key Findings

In 2025, global sales volume for dexterous hand tactile sensors is projected to reach 412,000 units, with a production capacity of approximately 600,000 units, an average selling price of $45 per unit, and an average gross margin of 35%–55%.

Dexterous Hand Tactile Sensor remains an early-stage robotics sensing market with high growth potential

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Global shipments were estimated at approximately 300 thousand to 800 thousand units in 2025

Flexible tactile sensors and electronic skin represent major technology development directions

The market is shifting toward high-density, multimodal and AI-integrated tactile sensing

Market Trends

The Dexterous Hand Tactile Sensor industry is moving from basic pressure detection toward high-density, flexible and multimodal tactile perception. Traditional robotic systems mainly rely on vision and force feedback, while next-generation humanoid robots require tactile sensing capabilities similar to human skin for stable grasping, delicate manipulation and safe human interaction. Future products are expected to integrate pressure sensing, shear force detection, slip recognition, temperature perception and AI-based tactile interpretation. Flexible electronic skin, miniaturized sensing arrays and sensor fusion technologies are becoming key development directions as robot manufacturers pursue more intelligent and adaptive manipulation capabilities.

Market Dynamics

Drivers

The rapid development of humanoid robots, embodied AI and intelligent manufacturing is driving demand for Dexterous Hand Tactile Sensor. Robots performing complex manipulation tasks require accurate contact feedback to adjust gripping force, recognize objects and interact safely with environments. Increasing investment in humanoid robot development, industrial automation upgrades and advanced robotics research is creating new demand for high-performance tactile sensing components.

Restraints

The market is constrained by high production costs, immature manufacturing processes and limited large-scale commercialization. Many tactile sensing products require customized designs for different robotic hands, and achieving high sensitivity, durability and consistent performance remains technically challenging. The lack of standardized

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interfaces and evaluation methods also increases integration difficulty.

Opportunities

The commercialization of humanoid robots provides significant opportunities for Dexterous Hand Tactile Sensor suppliers. Future growth opportunities will come from mass production of robotic hands, flexible electronic skin, AI-driven tactile perception models and applications requiring advanced manipulation capabilities. As sensor costs decline and manufacturing processes mature, tactile sensing is expected to expand from research applications into broader industrial and service robotics markets.

Challenges

The industry faces challenges related to technology maturity, cost reduction, reliability improvement and market adoption. Achieving human-like tactile perception requires breakthroughs in sensor density, multimodal sensing, data processing and AI interpretation. Companies also need to develop scalable manufacturing capabilities and establish cooperation with robot manufacturers to accelerate commercialization.

Industry Chain Analysis

The Dexterous Hand Tactile Sensor industry chain includes upstream suppliers of sensing materials, semiconductor components, flexible substrates, electronic components and precision manufacturing equipment. The midstream sector consists of tactile sensor developers, flexible electronics companies, robotic component suppliers and system integrators responsible for sensor design, manufacturing, calibration and integration into robotic hands. Downstream applications include humanoid robots, industrial dexterous robots, service robots and research platforms.

The value creation of the industry mainly comes from the combination of sensing material performance, sensor structure design, signal processing algorithms and robotic integration capability. High-performance tactile sensors require advanced materials, precise manufacturing processes and AI-based data interpretation capabilities. As humanoid robots move toward commercialization, suppliers with integrated sensing hardware and intelligent perception solutions are expected to gain stronger market opportunities.

Segment Insights

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Dexterous Hand Tactile Sensor can be segmented by sensing technology, product form, sensing capability and application. Flexible tactile sensors, fingertip tactile sensors and multimodal tactile sensor modules are expected to represent the most important growth areas because they directly address the requirements of robotic hands for lightweight design, high sensitivity and complex interaction.

From the perspective of sensing capability, products are developing from single-axis pressure sensing toward three-dimensional force sensing and multimodal perception. High-resolution electronic skin and multi-axis tactile systems have higher technical barriers and are mainly applied in advanced humanoid robots and research platforms, while cost-sensitive industrial applications are expected to adopt standardized tactile modules gradually.

Downstream Market Opportunities

The major downstream opportunities for Dexterous Hand Tactile Sensor are concentrated in humanoid robots, industrial automation, service robots and advanced robotic research. Humanoid robots represent the most important emerging market because dexterous manipulation requires tactile feedback for grasping, tool operation and environmental interaction. Industrial applications will focus on precision assembly, flexible manufacturing and handling of complex objects, while service robotics will create opportunities in healthcare, logistics and household assistance.

Regional Insights

Asia Pacific is expected to become the largest growth region for Dexterous Hand Tactile Sensor due to strong robotics manufacturing capabilities, electronics supply chains and rapid development of humanoid robot industries. China, Japan and South Korea have significant advantages in robotics production, flexible electronics manufacturing and intelligent hardware ecosystems, creating favorable conditions for tactile sensor commercialization.

North America and Europe maintain strong positions in advanced robotics research, sensor technology development and high-end robotic applications. North America benefits from AI and robotics innovation capabilities, while Europe has advantages in industrial automation and precision engineering. Regional competition will increasingly focus on sensor performance, manufacturing scalability and integration with robotic AI systems.

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Competitive Landscape Analysis

The Dexterous Hand Tactile Sensor market is currently characterized by a fragmented competitive structure, with participation from specialized tactile sensor companies, flexible electronics developers, robotics component suppliers and research-oriented technology companies. Competition is mainly based on sensing accuracy, resolution, flexibility, durability, manufacturing capability and integration experience.

Companies focusing on optical tactile sensing, flexible electronic skin and multi-axis force sensing are developing differentiated technology approaches. As humanoid robots move from research prototypes toward commercial deployment, competitive advantages will increasingly depend on cost-effective mass production, compatibility with robotic platforms and the ability to provide complete tactile perception solutions.

Report Scope

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

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

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

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

Market Segmentation

Segmentation by Type:

Resistive Tactile Sensor

Capacitive Tactile Sensor

Piezoresistive Tactile Sensor

Piezoelectric Tactile Sensor

Optical Tactile Sensor

Magnetic Tactile Sensor

Segmentation by Sensor Structure:

Single-point Tactile Sensor

Array Tactile Sensor

Distributed Tactile Sensor

Segmentation by Force Measurement Range:

0–1 N

1–50 N

50–500 N and Above

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Segmentation by Application:

Industrial

Medical

Home Services

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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- 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.

- SynTouch
- GelSight
- Tekscan
- XELA Robotics
- Pressure Profile Systems

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Melexis

OnRobot

Robotiq

Weiss Robotics

Analog Devices

Bota Systems

Interlink Electronics

Kunwei Technology

Landian Touch

PaXini Tech

Tashan Technology

Huaweike

Fulai New Materials

Hanwei Electronics

Daimon Robotics

Weitai Robotics

Moxian Technology

Jinghua New Materials

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Key Questions Addressed in this Report

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

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

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

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

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

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Dexterous Hand Tactile Sensor Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Dexterous Hand Tactile Sensor by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Dexterous Hand Tactile Sensor by Country/Region, 2021, 2025 & 2032
2.2 Dexterous Hand Tactile Sensor Segment by Type
  2.2.1 Resistive Tactile Sensor
  2.2.2 Capacitive Tactile Sensor
  2.2.3 Piezoresistive Tactile Sensor
  2.2.4 Piezoelectric Tactile Sensor
  2.2.5 Optical Tactile Sensor
  2.2.6 Magnetic Tactile Sensor
  2.2.7 Dexterous Hand Tactile Sensor Sales by Type
    2.2.7.1 Global Dexterous Hand Tactile Sensor Sales Market Share by Type (2021-2026)
    2.2.7.2 Global Dexterous Hand Tactile Sensor Revenue and Market Share by Type (2021-2026)
    2.2.7.3 Global Dexterous Hand Tactile Sensor Sale Price by Type (2021-2026)
2.3 Dexterous Hand Tactile Sensor Segment by Sensor Structure
  2.3.1 Single-point Tactile Sensor
  2.3.2 Array Tactile Sensor
  2.3.3 Distributed Tactile Sensor
  2.3.4 Dexterous Hand Tactile Sensor Sales by Sensor Structure

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2.3.4.1 Global Dexterous Hand Tactile Sensor Sales Market Share by Sensor Structure (2021-2026)
2.3.4.2 Global Dexterous Hand Tactile Sensor Revenue and Market Share by Sensor Structure (2021-2026)
2.3.4.3 Global Dexterous Hand Tactile Sensor Sale Price by Sensor Structure (2021-2026)
2.4 Dexterous Hand Tactile Sensor Segment by Force Measurement Range
2.4.1 0–1 N
2.4.2 1–50 N
2.4.3 50–500 N and Above
2.4.4 Dexterous Hand Tactile Sensor Sales by Force Measurement Range
2.4.4.1 Global Dexterous Hand Tactile Sensor Sales Market Share by Force Measurement Range (2021-2026)
2.4.4.2 Global Dexterous Hand Tactile Sensor Revenue and Market Share by Force Measurement Range (2021-2026)
2.4.4.3 Global Dexterous Hand Tactile Sensor Sale Price by Force Measurement Range (2021-2026)
2.5 Dexterous Hand Tactile Sensor Segment by Application
2.5.1 Industrial
2.5.2 Medical
2.5.3 Home Services
2.5.4 Others
2.5.5 Dexterous Hand Tactile Sensor Sales by Application
2.5.5.1 Global Dexterous Hand Tactile Sensor Sale Market Share by Application (2021-2026)
2.5.5.2 Global Dexterous Hand Tactile Sensor Revenue and Market Share by Application (2021-2026)
2.5.5.3 Global Dexterous Hand Tactile Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Dexterous Hand Tactile Sensor Breakdown Data by Company
3.1.1 Global Dexterous Hand Tactile Sensor Annual Sales by Company (2021-2026)
3.1.2 Global Dexterous Hand Tactile Sensor Sales Market Share by Company (2021-2026)
3.2 Global Dexterous Hand Tactile Sensor Annual Revenue by Company (2021-2026)
3.2.1 Global Dexterous Hand Tactile Sensor Revenue by Company (2021-2026)
3.2.2 Global Dexterous Hand Tactile Sensor Revenue Market Share by Company (2021-2026)

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3.3 Global Dexterous Hand Tactile Sensor Sale Price by Company
3.4 Key Manufacturers Dexterous Hand Tactile Sensor Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Dexterous Hand Tactile Sensor Product Location Distribution
3.4.2 Players Dexterous Hand Tactile Sensor Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR DEXTEROUS HAND TACTILE SENSOR BY GEOGRAPHIC REGION

4.1 World Historic Dexterous Hand Tactile Sensor Market Size by Geographic Region (2021-2026)
4.1.1 Global Dexterous Hand Tactile Sensor Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Dexterous Hand Tactile Sensor Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Dexterous Hand Tactile Sensor Market Size by Country/Region (2021-2026)
4.2.1 Global Dexterous Hand Tactile Sensor Annual Sales by Country/Region (2021-2026)
4.2.2 Global Dexterous Hand Tactile Sensor Annual Revenue by Country/Region (2021-2026)
4.3 Americas Dexterous Hand Tactile Sensor Sales Growth
4.4 APAC Dexterous Hand Tactile Sensor Sales Growth
4.5 Europe Dexterous Hand Tactile Sensor Sales Growth
4.6 Middle East & Africa Dexterous Hand Tactile Sensor Sales Growth

5 AMERICAS

5.1 Americas Dexterous Hand Tactile Sensor Sales by Country
5.1.1 Americas Dexterous Hand Tactile Sensor Sales by Country (2021-2026)
5.1.2 Americas Dexterous Hand Tactile Sensor Revenue by Country (2021-2026)
5.2 Americas Dexterous Hand Tactile Sensor Sales by Type (2021-2026)
5.3 Americas Dexterous Hand Tactile Sensor Sales by Application (2021-2026)
5.4 United States

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5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Dexterous Hand Tactile Sensor Sales by Region
  6.1.1 APAC Dexterous Hand Tactile Sensor Sales by Region (2021-2026)
  6.1.2 APAC Dexterous Hand Tactile Sensor Revenue by Region (2021-2026)
6.2 APAC Dexterous Hand Tactile Sensor Sales by Type (2021-2026)
6.3 APAC Dexterous Hand Tactile Sensor Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Dexterous Hand Tactile Sensor by Country
  7.1.1 Europe Dexterous Hand Tactile Sensor Sales by Country (2021-2026)
  7.1.2 Europe Dexterous Hand Tactile Sensor Revenue by Country (2021-2026)
7.2 Europe Dexterous Hand Tactile Sensor Sales by Type (2021-2026)
7.3 Europe Dexterous Hand Tactile Sensor Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Dexterous Hand Tactile Sensor by Country
  8.1.1 Middle East & Africa Dexterous Hand Tactile Sensor Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Dexterous Hand Tactile Sensor Revenue by Country (2021-2026)

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8.2 Middle East & Africa Dexterous Hand Tactile Sensor Sales by Type (2021-2026)
8.3 Middle East & Africa Dexterous Hand Tactile Sensor Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Dexterous Hand Tactile Sensor
10.3 Manufacturing Process Analysis of Dexterous Hand Tactile Sensor
10.4 Industry Chain Structure of Dexterous Hand Tactile Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Dexterous Hand Tactile Sensor Distributors
11.3 Dexterous Hand Tactile Sensor Customer

12 WORLD FORECAST REVIEW FOR DEXTEROUS HAND TACTILE SENSOR BY GEOGRAPHIC REGION

12.1 Global Dexterous Hand Tactile Sensor Market Size Forecast by Region
  12.1.1 Global Dexterous Hand Tactile Sensor Forecast by Region (2027-2032)
  12.1.2 Global Dexterous Hand Tactile Sensor Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)

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12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Dexterous Hand Tactile Sensor Forecast by Type (2027-2032)
12.7 Global Dexterous Hand Tactile Sensor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 SynTouch
13.1.1 SynTouch Company Information
13.1.2 SynTouch Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.1.3 SynTouch Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 SynTouch Main Business Overview
13.1.5 SynTouch Latest Developments
13.2 GelSight
13.2.1 GelSight Company Information
13.2.2 GelSight Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.2.3 GelSight Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 GelSight Main Business Overview
13.2.5 GelSight Latest Developments
13.3 Tekscan
13.3.1 Tekscan Company Information
13.3.2 Tekscan Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.3.3 Tekscan Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Tekscan Main Business Overview
13.3.5 Tekscan Latest Developments
13.4 XELA Robotics
13.4.1 XELA Robotics Company Information
13.4.2 XELA Robotics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.4.3 XELA Robotics Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 XELA Robotics Main Business Overview
13.4.5 XELA Robotics Latest Developments
13.5 Pressure Profile Systems
13.5.1 Pressure Profile Systems Company Information
13.5.2 Pressure Profile Systems Dexterous Hand Tactile Sensor Product Portfolios

+357 96 030922
info@marketpublishers.com

and Specifications
13.5.3 Pressure Profile Systems Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Pressure Profile Systems Main Business Overview
13.5.5 Pressure Profile Systems Latest Developments
13.6 Melexis
13.6.1 Melexis Company Information
13.6.2 Melexis Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.6.3 Melexis Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Melexis Main Business Overview
13.6.5 Melexis Latest Developments
13.7 OnRobot
13.7.1 OnRobot Company Information
13.7.2 OnRobot Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.7.3 OnRobot Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 OnRobot Main Business Overview
13.7.5 OnRobot Latest Developments
13.8 Robotiq
13.8.1 Robotiq Company Information
13.8.2 Robotiq Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.8.3 Robotiq Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Robotiq Main Business Overview
13.8.5 Robotiq Latest Developments
13.9 Weiss Robotics
13.9.1 Weiss Robotics Company Information
13.9.2 Weiss Robotics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.9.3 Weiss Robotics Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Weiss Robotics Main Business Overview
13.9.5 Weiss Robotics Latest Developments
13.10 Analog Devices
13.10.1 Analog Devices Company Information
13.10.2 Analog Devices Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.10.3 Analog Devices Dexterous Hand Tactile Sensor Sales, Revenue, Price and

+357 96 030922
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Gross Margin (2021-2026)
13.10.4 Analog Devices Main Business Overview
13.10.5 Analog Devices Latest Developments
13.11 Bota Systems
13.11.1 Bota Systems Company Information
13.11.2 Bota Systems Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.11.3 Bota Systems Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Bota Systems Main Business Overview
13.11.5 Bota Systems Latest Developments
13.12 Interlink Electronics
13.12.1 Interlink Electronics Company Information
13.12.2 Interlink Electronics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.12.3 Interlink Electronics Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Interlink Electronics Main Business Overview
13.12.5 Interlink Electronics Latest Developments
13.13 Kunwei Technology
13.13.1 Kunwei Technology Company Information
13.13.2 Kunwei Technology Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.13.3 Kunwei Technology Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Kunwei Technology Main Business Overview
13.13.5 Kunwei Technology Latest Developments
13.14 Landian Touch
13.14.1 Landian Touch Company Information
13.14.2 Landian Touch Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.14.3 Landian Touch Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Landian Touch Main Business Overview
13.14.5 Landian Touch Latest Developments
13.15 PaXini Tech
13.15.1 PaXini Tech Company Information
13.15.2 PaXini Tech Dexterous Hand Tactile Sensor Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

13.15.3 PaXini Tech Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 PaXini Tech Main Business Overview
13.15.5 PaXini Tech Latest Developments
13.16 Tashan Technology
13.16.1 Tashan Technology Company Information
13.16.2 Tashan Technology Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.16.3 Tashan Technology Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 Tashan Technology Main Business Overview
13.16.5 Tashan Technology Latest Developments
13.17 Huaweike
13.17.1 Huaweike Company Information
13.17.2 Huaweike Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.17.3 Huaweike Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.17.4 Huaweike Main Business Overview
13.17.5 Huaweike Latest Developments
13.18 Fulai New Materials
13.18.1 Fulai New Materials Company Information
13.18.2 Fulai New Materials Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.18.3 Fulai New Materials Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 Fulai New Materials Main Business Overview
13.18.5 Fulai New Materials Latest Developments
13.19 Hanwei Electronics
13.19.1 Hanwei Electronics Company Information
13.19.2 Hanwei Electronics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.19.3 Hanwei Electronics Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.19.4 Hanwei Electronics Main Business Overview
13.19.5 Hanwei Electronics Latest Developments
13.20 Daimon Robotics
13.20.1 Daimon Robotics Company Information
13.20.2 Daimon Robotics Dexterous Hand Tactile Sensor Product Portfolios and

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Specifications
13.20.3 Daimon Robotics Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.20.4 Daimon Robotics Main Business Overview
13.20.5 Daimon Robotics Latest Developments
13.21 Weitai Robotics
13.21.1 Weitai Robotics Company Information
13.21.2 Weitai Robotics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.21.3 Weitai Robotics Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.21.4 Weitai Robotics Main Business Overview
13.21.5 Weitai Robotics Latest Developments
13.22 Moxian Technology
13.22.1 Moxian Technology Company Information
13.22.2 Moxian Technology Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.22.3 Moxian Technology Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.22.4 Moxian Technology Main Business Overview
13.22.5 Moxian Technology Latest Developments
13.23 Jinghua New Materials
13.23.1 Jinghua New Materials Company Information
13.23.2 Jinghua New Materials Dexterous Hand Tactile Sensor Product Portfolios and Specifications
13.23.3 Jinghua New Materials Dexterous Hand Tactile Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.23.4 Jinghua New Materials Main Business Overview
13.23.5 Jinghua New Materials Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. Dexterous Hand Tactile Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Dexterous Hand Tactile Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Resistive Tactile Sensor
Table 4. Major Players of Capacitive Tactile Sensor
Table 5. Major Players of Piezoresistive Tactile Sensor
Table 6. Major Players of Piezoelectric Tactile Sensor
Table 7. Major Players of Optical Tactile Sensor
Table 8. Major Players of Magnetic Tactile Sensor
Table 9. Global Dexterous Hand Tactile Sensor Sales by Type (2021-2026) & (K Units)
Table 10. Global Dexterous Hand Tactile Sensor Sales Market Share by Type (2021-2026)
Table 11. Global Dexterous Hand Tactile Sensor Revenue by Type (2021-2026) & ($ million)
Table 12. Global Dexterous Hand Tactile Sensor Revenue Market Share by Type (2021-2026)
Table 13. Global Dexterous Hand Tactile Sensor Sale Price by Type (2021-2026) & (US$/Unit)
Table 14. Major Players of Single-point Tactile Sensor
Table 15. Major Players of Array Tactile Sensor
Table 16. Major Players of Distributed Tactile Sensor
Table 17. Global Dexterous Hand Tactile Sensor Sales by Sensor Structure (2021-2026) & (K Units)
Table 18. Global Dexterous Hand Tactile Sensor Sales Market Share by Sensor Structure (2021-2026)
Table 19. Global Dexterous Hand Tactile Sensor Revenue by Sensor Structure (2021-2026) & ($ million)
Table 20. Global Dexterous Hand Tactile Sensor Revenue Market Share by Sensor Structure (2021-2026)
Table 21. Global Dexterous Hand Tactile Sensor Sale Price by Sensor Structure (2021-2026) & (US$/Unit)
Table 22. Major Players of 0–1 N
Table 23. Major Players of 1–50 N
Table 24. Major Players of 50–500 N and Above

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Table 25. Global Dexterous Hand Tactile Sensor Sales by Force Measurement Range (2021-2026) & (K Units)
Table 26. Global Dexterous Hand Tactile Sensor Sales Market Share by Force Measurement Range (2021-2026)
Table 27. Global Dexterous Hand Tactile Sensor Revenue by Force Measurement Range (2021-2026) & ($ million)
Table 28. Global Dexterous Hand Tactile Sensor Revenue Market Share by Force Measurement Range (2021-2026)
Table 29. Global Dexterous Hand Tactile Sensor Sale Price by Force Measurement Range (2021-2026) & (US$/Unit)
Table 30. Global Dexterous Hand Tactile Sensor Sale by Application (2021-2026) & (K Units)
Table 31. Global Dexterous Hand Tactile Sensor Sale Market Share by Application (2021-2026)
Table 32. Global Dexterous Hand Tactile Sensor Revenue by Application (2021-2026) & ($ million)
Table 33. Global Dexterous Hand Tactile Sensor Revenue Market Share by Application (2021-2026)
Table 34. Global Dexterous Hand Tactile Sensor Sale Price by Application (2021-2026) & (US$/Unit)
Table 35. Global Dexterous Hand Tactile Sensor Sales by Company (2021-2026) & (K Units)
Table 36. Global Dexterous Hand Tactile Sensor Sales Market Share by Company (2021-2026)
Table 37. Global Dexterous Hand Tactile Sensor Revenue by Company (2021-2026) & ($ millions)
Table 38. Global Dexterous Hand Tactile Sensor Revenue Market Share by Company (2021-2026)
Table 39. Global Dexterous Hand Tactile Sensor Sale Price by Company (2021-2026) & (US$/Unit)
Table 40. Key Manufacturers Dexterous Hand Tactile Sensor Producing Area Distribution and Sales Area
Table 41. Players Dexterous Hand Tactile Sensor Products Offered
Table 42. Dexterous Hand Tactile Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 43. New Products and Potential Entrants
Table 44. Market M&A Activity & Strategy
Table 45. Global Dexterous Hand Tactile Sensor Sales by Geographic Region (2021-2026) & (K Units)

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Table 46. Global Dexterous Hand Tactile Sensor Sales Market Share Geographic Region (2021-2026)
Table 47. Global Dexterous Hand Tactile Sensor Revenue by Geographic Region (2021-2026) & ($ millions)
Table 48. Global Dexterous Hand Tactile Sensor Revenue Market Share by Geographic Region (2021-2026)
Table 49. Global Dexterous Hand Tactile Sensor Sales by Country/Region (2021-2026) & (K Units)
Table 50. Global Dexterous Hand Tactile Sensor Sales Market Share by Country/Region (2021-2026)
Table 51. Global Dexterous Hand Tactile Sensor Revenue by Country/Region (2021-2026) & ($ millions)
Table 52. Global Dexterous Hand Tactile Sensor Revenue Market Share by Country/Region (2021-2026)
Table 53. Americas Dexterous Hand Tactile Sensor Sales by Country (2021-2026) & (K Units)
Table 54. Americas Dexterous Hand Tactile Sensor Sales Market Share by Country (2021-2026)
Table 55. Americas Dexterous Hand Tactile Sensor Revenue by Country (2021-2026) & ($ millions)
Table 56. Americas Dexterous Hand Tactile Sensor Sales by Type (2021-2026) & (K Units)
Table 57. Americas Dexterous Hand Tactile Sensor Sales by Application (2021-2026) & (K Units)
Table 58. APAC Dexterous Hand Tactile Sensor Sales by Region (2021-2026) & (K Units)
Table 59. APAC Dexterous Hand Tactile Sensor Sales Market Share by Region (2021-2026)
Table 60. APAC Dexterous Hand Tactile Sensor Revenue by Region (2021-2026) & ($ millions)
Table 61. APAC Dexterous Hand Tactile Sensor Sales by Type (2021-2026) & (K Units)
Table 62. APAC Dexterous Hand Tactile Sensor Sales by Application (2021-2026) & (K Units)
Table 63. Europe Dexterous Hand Tactile Sensor Sales by Country (2021-2026) & (K Units)
Table 64. Europe Dexterous Hand Tactile Sensor Revenue by Country (2021-2026) & ($ millions)
Table 65. Europe Dexterous Hand Tactile Sensor Sales by Type (2021-2026) & (K Units)

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Table 66. Europe Dexterous Hand Tactile Sensor Sales by Application (2021-2026) & (K Units)
Table 67. Middle East & Africa Dexterous Hand Tactile Sensor Sales by Country (2021-2026) & (K Units)
Table 68. Middle East & Africa Dexterous Hand Tactile Sensor Revenue Market Share by Country (2021-2026)
Table 69. Middle East & Africa Dexterous Hand Tactile Sensor Sales by Type (2021-2026) & (K Units)
Table 70. Middle East & Africa Dexterous Hand Tactile Sensor Sales by Application (2021-2026) & (K Units)
Table 71. Key Market Drivers & Growth Opportunities of Dexterous Hand Tactile Sensor
Table 72. Key Market Challenges & Risks of Dexterous Hand Tactile Sensor
Table 73. Key Industry Trends of Dexterous Hand Tactile Sensor
Table 74. Dexterous Hand Tactile Sensor Raw Material
Table 75. Key Suppliers of Raw Materials
Table 76. Dexterous Hand Tactile Sensor Distributors List
Table 77. Dexterous Hand Tactile Sensor Customer List
Table 78. Global Dexterous Hand Tactile Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 79. Global Dexterous Hand Tactile Sensor Revenue Forecast by Region (2027-2032) & ($ millions)
Table 80. Americas Dexterous Hand Tactile Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 81. Americas Dexterous Hand Tactile Sensor Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 82. APAC Dexterous Hand Tactile Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 83. APAC Dexterous Hand Tactile Sensor Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 84. Europe Dexterous Hand Tactile Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 85. Europe Dexterous Hand Tactile Sensor Revenue Forecast by Country (2027-2032) & ($ millions)
Table 86. Middle East & Africa Dexterous Hand Tactile Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 87. Middle East & Africa Dexterous Hand Tactile Sensor Revenue Forecast by Country (2027-2032) & ($ millions)
Table 88. Global Dexterous Hand Tactile Sensor Sales Forecast by Type (2027-2032) & (K Units)

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Table 89. Global Dexterous Hand Tactile Sensor Revenue Forecast by Type (2027-2032) & ($ millions)
Table 90. Global Dexterous Hand Tactile Sensor Sales Forecast by Application (2027-2032) & (K Units)
Table 91. Global Dexterous Hand Tactile Sensor Revenue Forecast by Application (2027-2032) & ($ millions)
Table 92. SynTouch Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 93. SynTouch Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 94. SynTouch Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 95. SynTouch Main Business
Table 96. SynTouch Latest Developments
Table 97. GelSight Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 98. GelSight Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 99. GelSight Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 100. GelSight Main Business
Table 101. GelSight Latest Developments
Table 102. Tekscan Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 103. Tekscan Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 104. Tekscan Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 105. Tekscan Main Business
Table 106. Tekscan Latest Developments
Table 107. XELA Robotics Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 108. XELA Robotics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 109. XELA Robotics Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 110. XELA Robotics Main Business
Table 111. XELA Robotics Latest Developments
Table 112. Pressure Profile Systems Basic Information, Dexterous Hand Tactile Sensor

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Manufacturing Base, Sales Area and Its Competitors
Table 113. Pressure Profile Systems Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 114. Pressure Profile Systems Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 115. Pressure Profile Systems Main Business
Table 116. Pressure Profile Systems Latest Developments
Table 117. Melexis Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 118. Melexis Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 119. Melexis Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 120. Melexis Main Business
Table 121. Melexis Latest Developments
Table 122. OnRobot Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 123. OnRobot Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 124. OnRobot Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 125. OnRobot Main Business
Table 126. OnRobot Latest Developments
Table 127. Robotiq Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 128. Robotiq Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 129. Robotiq Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 130. Robotiq Main Business
Table 131. Robotiq Latest Developments
Table 132. Weiss Robotics Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 133. Weiss Robotics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 134. Weiss Robotics Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 135. Weiss Robotics Main Business
Table 136. Weiss Robotics Latest Developments

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Table 137. Analog Devices Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 138. Analog Devices Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 139. Analog Devices Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 140. Analog Devices Main Business
Table 141. Analog Devices Latest Developments
Table 142. Bota Systems Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 143. Bota Systems Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 144. Bota Systems Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 145. Bota Systems Main Business
Table 146. Bota Systems Latest Developments
Table 147. Interlink Electronics Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 148. Interlink Electronics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 149. Interlink Electronics Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 150. Interlink Electronics Main Business
Table 151. Interlink Electronics Latest Developments
Table 152. Kunwei Technology Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 153. Kunwei Technology Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 154. Kunwei Technology Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 155. Kunwei Technology Main Business
Table 156. Kunwei Technology Latest Developments
Table 157. Landian Touch Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 158. Landian Touch Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 159. Landian Touch Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 160. Landian Touch Main Business

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Table 161. Landian Touch Latest Developments
Table 162. PaXini Tech Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 163. PaXini Tech Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 164. PaXini Tech Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 165. PaXini Tech Main Business
Table 166. PaXini Tech Latest Developments
Table 167. Tashan Technology Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 168. Tashan Technology Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 169. Tashan Technology Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 170. Tashan Technology Main Business
Table 171. Tashan Technology Latest Developments
Table 172. Huaweike Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 173. Huaweike Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 174. Huaweike Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 175. Huaweike Main Business
Table 176. Huaweike Latest Developments
Table 177. Fulai New Materials Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 178. Fulai New Materials Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 179. Fulai New Materials Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 180. Fulai New Materials Main Business
Table 181. Fulai New Materials Latest Developments
Table 182. Hanwei Electronics Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 183. Hanwei Electronics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 184. Hanwei Electronics Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 185. Hanwei Electronics Main Business
Table 186. Hanwei Electronics Latest Developments
Table 187. Daimon Robotics Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 188. Daimon Robotics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 189. Daimon Robotics Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 190. Daimon Robotics Main Business
Table 191. Daimon Robotics Latest Developments
Table 192. Weitai Robotics Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 193. Weitai Robotics Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 194. Weitai Robotics Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 195. Weitai Robotics Main Business
Table 196. Weitai Robotics Latest Developments
Table 197. Moxian Technology Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 198. Moxian Technology Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 199. Moxian Technology Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 200. Moxian Technology Main Business
Table 201. Moxian Technology Latest Developments
Table 202. Jinghua New Materials Basic Information, Dexterous Hand Tactile Sensor Manufacturing Base, Sales Area and Its Competitors
Table 203. Jinghua New Materials Dexterous Hand Tactile Sensor Product Portfolios and Specifications
Table 204. Jinghua New Materials Dexterous Hand Tactile Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 205. Jinghua New Materials Main Business
Table 206. Jinghua New Materials Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Dexterous Hand Tactile Sensor
Figure 2. Dexterous Hand Tactile Sensor Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Dexterous Hand Tactile Sensor Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Dexterous Hand Tactile Sensor Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Dexterous Hand Tactile Sensor Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Dexterous Hand Tactile Sensor Sales Market Share by Country/Region (2025)
Figure 10. Dexterous Hand Tactile Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Resistive Tactile Sensor
Figure 12. Product Picture of Capacitive Tactile Sensor
Figure 13. Product Picture of Piezoresistive Tactile Sensor
Figure 14. Product Picture of Piezoelectric Tactile Sensor
Figure 15. Product Picture of Optical Tactile Sensor
Figure 16. Product Picture of Magnetic Tactile Sensor
Figure 17. Global Dexterous Hand Tactile Sensor Sales Market Share by Type in 2026
Figure 18. Global Dexterous Hand Tactile Sensor Revenue Market Share by Type (2021-2026)
Figure 19. Product Picture of Single-point Tactile Sensor
Figure 20. Product Picture of Array Tactile Sensor
Figure 21. Product Picture of Distributed Tactile Sensor
Figure 22. Global Dexterous Hand Tactile Sensor Sales Market Share by Sensor Structure in 2026
Figure 23. Global Dexterous Hand Tactile Sensor Revenue Market Share by Sensor Structure (2021-2026)
Figure 24. Product Picture of 0–1 N
Figure 25. Product Picture of 1–50 N
Figure 26. Product Picture of 50–500 N and Above
Figure 27. Global Dexterous Hand Tactile Sensor Sales Market Share by Force Measurement Range in 2026

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Figure 28. Global Dexterous Hand Tactile Sensor Revenue Market Share by Force Measurement Range (2021-2026)
Figure 29. Dexterous Hand Tactile Sensor Consumed in Industrial
Figure 30. Global Dexterous Hand Tactile Sensor Market: Industrial (2021-2026) & (K Units)
Figure 31. Dexterous Hand Tactile Sensor Consumed in Medical
Figure 32. Global Dexterous Hand Tactile Sensor Market: Medical (2021-2026) & (K Units)
Figure 33. Dexterous Hand Tactile Sensor Consumed in Home Services
Figure 34. Global Dexterous Hand Tactile Sensor Market: Home Services (2021-2026) & (K Units)
Figure 35. Dexterous Hand Tactile Sensor Consumed in Others
Figure 36. Global Dexterous Hand Tactile Sensor Market: Others (2021-2026) & (K Units)
Figure 37. Global Dexterous Hand Tactile Sensor Sale Market Share by Application (2025)
Figure 38. Global Dexterous Hand Tactile Sensor Revenue Market Share by Application in 2025
Figure 39. Dexterous Hand Tactile Sensor Sales by Company in 2025 (K Units)
Figure 40. Global Dexterous Hand Tactile Sensor Sales Market Share by Company in 2025
Figure 41. Dexterous Hand Tactile Sensor Revenue by Company in 2025 ($ millions)
Figure 42. Global Dexterous Hand Tactile Sensor Revenue Market Share by Company in 2025
Figure 43. Global Dexterous Hand Tactile Sensor Sales Market Share by Geographic Region (2021-2026)
Figure 44. Global Dexterous Hand Tactile Sensor Revenue Market Share by Geographic Region in 2025
Figure 45. Americas Dexterous Hand Tactile Sensor Sales 2021-2026 (K Units)
Figure 46. Americas Dexterous Hand Tactile Sensor Revenue 2021-2026 ($ millions)
Figure 47. APAC Dexterous Hand Tactile Sensor Sales 2021-2026 (K Units)
Figure 48. APAC Dexterous Hand Tactile Sensor Revenue 2021-2026 ($ millions)
Figure 49. Europe Dexterous Hand Tactile Sensor Sales 2021-2026 (K Units)
Figure 50. Europe Dexterous Hand Tactile Sensor Revenue 2021-2026 ($ millions)
Figure 51. Middle East & Africa Dexterous Hand Tactile Sensor Sales 2021-2026 (K Units)
Figure 52. Middle East & Africa Dexterous Hand Tactile Sensor Revenue 2021-2026 ($ millions)
Figure 53. Americas Dexterous Hand Tactile Sensor Sales Market Share by Country in

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2025
Figure 54. Americas Dexterous Hand Tactile Sensor Revenue Market Share by Country (2021-2026)
Figure 55. Americas Dexterous Hand Tactile Sensor Sales Market Share by Type (2021-2026)
Figure 56. Americas Dexterous Hand Tactile Sensor Sales Market Share by Application (2021-2026)
Figure 57. United States Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 58. Canada Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 59. Mexico Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 60. Brazil Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 61. APAC Dexterous Hand Tactile Sensor Sales Market Share by Region in 2025
Figure 62. APAC Dexterous Hand Tactile Sensor Revenue Market Share by Region (2021-2026)
Figure 63. APAC Dexterous Hand Tactile Sensor Sales Market Share by Type (2021-2026)
Figure 64. APAC Dexterous Hand Tactile Sensor Sales Market Share by Application (2021-2026)
Figure 65. China Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 66. Japan Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 67. South Korea Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 68. Southeast Asia Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 69. India Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 70. Australia Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 71. China Taiwan Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 72. Europe Dexterous Hand Tactile Sensor Sales Market Share by Country in 2025

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Figure 73. Europe Dexterous Hand Tactile Sensor Revenue Market Share by Country (2021-2026)
Figure 74. Europe Dexterous Hand Tactile Sensor Sales Market Share by Type (2021-2026)
Figure 75. Europe Dexterous Hand Tactile Sensor Sales Market Share by Application (2021-2026)
Figure 76. Germany Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 77. France Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 78. UK Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 79. Italy Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 80. Russia Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 81. Middle East & Africa Dexterous Hand Tactile Sensor Sales Market Share by Country (2021-2026)
Figure 82. Middle East & Africa Dexterous Hand Tactile Sensor Sales Market Share by Type (2021-2026)
Figure 83. Middle East & Africa Dexterous Hand Tactile Sensor Sales Market Share by Application (2021-2026)
Figure 84. Egypt Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 85. South Africa Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 86. Israel Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 87. Turkey Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 88. GCC Countries Dexterous Hand Tactile Sensor Revenue Growth 2021-2026 ($ millions)
Figure 89. Manufacturing Cost Structure Analysis of Dexterous Hand Tactile Sensor in 2026
Figure 90. Manufacturing Process Analysis of Dexterous Hand Tactile Sensor
Figure 91. Industry Chain Structure of Dexterous Hand Tactile Sensor
Figure 92. Channels of Distribution
Figure 93. Global Dexterous Hand Tactile Sensor Sales Market Forecast by Region (2027-2032)
Figure 94. Global Dexterous Hand Tactile Sensor Revenue Market Share Forecast by Region (2027-2032)

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Figure 95. Global Dexterous Hand Tactile Sensor Sales Market Share Forecast by Type (2027-2032)
Figure 96. Global Dexterous Hand Tactile Sensor Revenue Market Share Forecast by Type (2027-2032)
Figure 97. Global Dexterous Hand Tactile Sensor Sales Market Share Forecast by Application (2027-2032)
Figure 98. Global Dexterous Hand Tactile Sensor Revenue Market Share Forecast by Application (2027-2032)

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