

# Global Visual-Tactile Dexterous Hand Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/G1E3A729A7A3EN.html>

Date: March 2026

Pages: 144

Price: US\$ 3,200.00 (Single User License)

ID: G1E3A729A7A3EN

## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Visual-Tactile Dexterous Hand competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. The visual-tactile dexterous hand is a multi-fingered bionic end effector that integrates visual and tactile perception capabilities. It usually has 3-5 independently drivable fingers, each equipped with pressure/force/tactile sensors, and visual units such as cameras or structured light depth cameras. It uses the visual module to locate, identify, and scan the shape of the environment and target objects, and combines tactile sensing to achieve fine control of the grasping force and contact points. It can complete the autonomous grasping and operation of special-shaped, fragile, or soft-hard objects in unstructured scenes. This type of dexterous hand mostly uses force control and impedance control algorithms to dynamically adjust the posture and torque in a closed-loop manner, supporting multi-target parallel operation and flexible assembly.

The global Visual-Tactile Dexterous Hand market size was estimated at USD 522.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 24.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Visual-Tactile Dexterous Hand market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the

industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Visual-Tactile Dexterous Hand market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Visual-Tactile Dexterous Hand market.

### **Global Visual-Tactile Dexterous Hand Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Allegrohand  
Robotiq  
SCHUNK  
Shadow Robot  
Barrett Technology  
Daimon Robotics  
AgiBot Innovation  
PaXini Tech  
Foxtech Robotics

OYMotion

### **Market Segmentation (by Type)**

3 Fingers

4 Fingers

5 Fingers

### **Market Segmentation (by Application)**

Industrial Manufacturing

Medical

Home Services

Logistics

Warehousing

Others

### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value  
In-depth analysis of the Visual-Tactile Dexterous Hand Market  
Overview of the regional outlook of the Visual-Tactile Dexterous Hand Market:

## **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

## **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Visual-Tactile Dexterous Hand Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Visual-Tactile Dexterous Hand, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Visual-Tactile Dexterous Hand
- 1.2 Key Market Segments
  - 1.2.1 Visual-Tactile Dexterous Hand Segment by Type
  - 1.2.2 Visual-Tactile Dexterous Hand Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 VISUAL-TACTILE DEXTEROUS HAND MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Visual-Tactile Dexterous Hand Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Visual-Tactile Dexterous Hand Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 VISUAL-TACTILE DEXTEROUS HAND MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Visual-Tactile Dexterous Hand Product Life Cycle
- 3.3 Global Visual-Tactile Dexterous Hand Sales by Manufacturers (2020-2025)
- 3.4 Global Visual-Tactile Dexterous Hand Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Visual-Tactile Dexterous Hand Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Visual-Tactile Dexterous Hand Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Visual-Tactile Dexterous Hand Market Competitive Situation and Trends
  - 3.8.1 Visual-Tactile Dexterous Hand Market Concentration Rate
  - 3.8.2 Global 5 and 10 Largest Visual-Tactile Dexterous Hand Players Market Share by

Revenue

3.8.3 Mergers & Acquisitions, Expansion

## **4 VISUAL-TACTILE DEXTEROUS HAND INDUSTRY CHAIN ANALYSIS**

4.1 Visual-Tactile Dexterous Hand Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF VISUAL-TACTILE DEXTEROUS HAND MARKET**

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Visual-Tactile Dexterous Hand Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Visual-Tactile Dexterous Hand Market

5.7 ESG Ratings of Leading Companies

## **6 VISUAL-TACTILE DEXTEROUS HAND MARKET SEGMENTATION BY TYPE**

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Visual-Tactile Dexterous Hand Sales Market Share by Type (2020-2025)

6.3 Global Visual-Tactile Dexterous Hand Market Size by Type (2020-2025)

6.4 Global Visual-Tactile Dexterous Hand Price by Type (2020-2025)

## **7 VISUAL-TACTILE DEXTEROUS HAND MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Visual-Tactile Dexterous Hand Market Sales by Application (2020-2025)
- 7.3 Global Visual-Tactile Dexterous Hand Market Size (M USD) by Application (2020-2025)
- 7.4 Global Visual-Tactile Dexterous Hand Sales Growth Rate by Application (2020-2025)

## **8 VISUAL-TACTILE DEXTEROUS HAND MARKET SALES BY REGION**

- 8.1 Global Visual-Tactile Dexterous Hand Sales by Region
  - 8.1.1 Global Visual-Tactile Dexterous Hand Sales by Region
  - 8.1.2 Global Visual-Tactile Dexterous Hand Sales Market Share by Region
- 8.2 Global Visual-Tactile Dexterous Hand Market Size by Region
  - 8.2.1 Global Visual-Tactile Dexterous Hand Market Size by Region
  - 8.2.2 Global Visual-Tactile Dexterous Hand Market Size by Region
- 8.3 North America
  - 8.3.1 North America Visual-Tactile Dexterous Hand Sales by Country
  - 8.3.2 North America Visual-Tactile Dexterous Hand Market Size by Country
  - 8.3.3 U.S. Market Overview
  - 8.3.4 Canada Market Overview
  - 8.3.5 Mexico Market Overview
- 8.4 Europe
  - 8.4.1 Europe Visual-Tactile Dexterous Hand Sales by Country
  - 8.4.2 Europe Visual-Tactile Dexterous Hand Market Size by Country
  - 8.4.3 Germany Market Overview
  - 8.4.4 France Market Overview
  - 8.4.5 U.K. Market Overview
  - 8.4.6 Italy Market Overview
  - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
  - 8.5.1 Asia Pacific Visual-Tactile Dexterous Hand Sales by Region
  - 8.5.2 Asia Pacific Visual-Tactile Dexterous Hand Market Size by Region
  - 8.5.3 China Market Overview
  - 8.5.4 Japan Market Overview
  - 8.5.5 South Korea Market Overview

- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
  - 8.6.1 South America Visual-Tactile Dexterous Hand Sales by Country
  - 8.6.2 South America Visual-Tactile Dexterous Hand Market Size by Country
  - 8.6.3 Brazil Market Overview
  - 8.6.4 Argentina Market Overview
  - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
  - 8.7.1 Middle East and Africa Visual-Tactile Dexterous Hand Sales by Region
  - 8.7.2 Middle East and Africa Visual-Tactile Dexterous Hand Market Size by Region
  - 8.7.3 Saudi Arabia Market Overview
  - 8.7.4 UAE Market Overview
  - 8.7.5 Egypt Market Overview
  - 8.7.6 Nigeria Market Overview
  - 8.7.7 South Africa Market Overview

## **9 VISUAL-TACTILE DEXTEROUS HAND MARKET PRODUCTION BY REGION**

- 9.1 Global Production of Visual-Tactile Dexterous Hand by Region(2020-2025)
- 9.2 Global Visual-Tactile Dexterous Hand Revenue Market Share by Region (2020-2025)
- 9.3 Global Visual-Tactile Dexterous Hand Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Visual-Tactile Dexterous Hand Production
  - 9.4.1 North America Visual-Tactile Dexterous Hand Production Growth Rate (2020-2025)
  - 9.4.2 North America Visual-Tactile Dexterous Hand Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Visual-Tactile Dexterous Hand Production
  - 9.5.1 Europe Visual-Tactile Dexterous Hand Production Growth Rate (2020-2025)
  - 9.5.2 Europe Visual-Tactile Dexterous Hand Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Visual-Tactile Dexterous Hand Production (2020-2025)
  - 9.6.1 Japan Visual-Tactile Dexterous Hand Production Growth Rate (2020-2025)
  - 9.6.2 Japan Visual-Tactile Dexterous Hand Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Visual-Tactile Dexterous Hand Production (2020-2025)
  - 9.7.1 China Visual-Tactile Dexterous Hand Production Growth Rate (2020-2025)

9.7.2 China Visual-Tactile Dexterous Hand Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

### 10.1 Allegrohand

10.1.1 Allegrohand Basic Information

10.1.2 Allegrohand Visual-Tactile Dexterous Hand Product Overview

10.1.3 Allegrohand Visual-Tactile Dexterous Hand Product Market Performance

10.1.4 Allegrohand Business Overview

10.1.5 Allegrohand SWOT Analysis

10.1.6 Allegrohand Recent Developments

### 10.2 Robotiq

10.2.1 Robotiq Basic Information

10.2.2 Robotiq Visual-Tactile Dexterous Hand Product Overview

10.2.3 Robotiq Visual-Tactile Dexterous Hand Product Market Performance

10.2.4 Robotiq Business Overview

10.2.5 Robotiq SWOT Analysis

10.2.6 Robotiq Recent Developments

### 10.3 SCHUNK

10.3.1 SCHUNK Basic Information

10.3.2 SCHUNK Visual-Tactile Dexterous Hand Product Overview

10.3.3 SCHUNK Visual-Tactile Dexterous Hand Product Market Performance

10.3.4 SCHUNK Business Overview

10.3.5 SCHUNK SWOT Analysis

10.3.6 SCHUNK Recent Developments

### 10.4 Shadow Robot

10.4.1 Shadow Robot Basic Information

10.4.2 Shadow Robot Visual-Tactile Dexterous Hand Product Overview

10.4.3 Shadow Robot Visual-Tactile Dexterous Hand Product Market Performance

10.4.4 Shadow Robot Business Overview

10.4.5 Shadow Robot Recent Developments

### 10.5 Barrett Technology

10.5.1 Barrett Technology Basic Information

10.5.2 Barrett Technology Visual-Tactile Dexterous Hand Product Overview

10.5.3 Barrett Technology Visual-Tactile Dexterous Hand Product Market Performance

10.5.4 Barrett Technology Business Overview

10.5.5 Barrett Technology Recent Developments

### 10.6 Daimon Robotics

- 10.6.1 Daimon Robotics Basic Information
- 10.6.2 Daimon Robotics Visual-Tactile Dexterous Hand Product Overview
- 10.6.3 Daimon Robotics Visual-Tactile Dexterous Hand Product Market Performance
- 10.6.4 Daimon Robotics Business Overview
- 10.6.5 Daimon Robotics Recent Developments
- 10.7 AgiBot Innovation
  - 10.7.1 AgiBot Innovation Basic Information
  - 10.7.2 AgiBot Innovation Visual-Tactile Dexterous Hand Product Overview
  - 10.7.3 AgiBot Innovation Visual-Tactile Dexterous Hand Product Market Performance
  - 10.7.4 AgiBot Innovation Business Overview
  - 10.7.5 AgiBot Innovation Recent Developments
- 10.8 PaXini Tech
  - 10.8.1 PaXini Tech Basic Information
  - 10.8.2 PaXini Tech Visual-Tactile Dexterous Hand Product Overview
  - 10.8.3 PaXini Tech Visual-Tactile Dexterous Hand Product Market Performance
  - 10.8.4 PaXini Tech Business Overview
  - 10.8.5 PaXini Tech Recent Developments
- 10.9 Foxtech Robotics
  - 10.9.1 Foxtech Robotics Basic Information
  - 10.9.2 Foxtech Robotics Visual-Tactile Dexterous Hand Product Overview
  - 10.9.3 Foxtech Robotics Visual-Tactile Dexterous Hand Product Market Performance
  - 10.9.4 Foxtech Robotics Business Overview
  - 10.9.5 Foxtech Robotics Recent Developments
- 10.10 OYMotion
  - 10.10.1 OYMotion Basic Information
  - 10.10.2 OYMotion Visual-Tactile Dexterous Hand Product Overview
  - 10.10.3 OYMotion Visual-Tactile Dexterous Hand Product Market Performance
  - 10.10.4 OYMotion Business Overview
  - 10.10.5 OYMotion Recent Developments

## **11 VISUAL-TACTILE DEXTEROUS HAND MARKET FORECAST BY REGION**

- 11.1 Global Visual-Tactile Dexterous Hand Market Size Forecast
- 11.2 Global Visual-Tactile Dexterous Hand Market Forecast by Region
  - 11.2.1 North America Market Size Forecast by Country
  - 11.2.2 Europe Visual-Tactile Dexterous Hand Market Size Forecast by Country
  - 11.2.3 Asia Pacific Visual-Tactile Dexterous Hand Market Size Forecast by Region
  - 11.2.4 South America Visual-Tactile Dexterous Hand Market Size Forecast by Country
  - 11.2.5 Middle East and Africa Forecasted Sales of Visual-Tactile Dexterous Hand by

Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

12.1 Global Visual-Tactile Dexterous Hand Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Visual-Tactile Dexterous Hand by Type (2026-2035)

12.1.2 Global Visual-Tactile Dexterous Hand Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Visual-Tactile Dexterous Hand by Type (2026-2035)

12.2 Global Visual-Tactile Dexterous Hand Market Forecast by Application (2026-2035)

12.2.1 Global Visual-Tactile Dexterous Hand Sales (K Units) Forecast by Application

12.2.2 Global Visual-Tactile Dexterous Hand Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Visual-Tactile Dexterous Hand Market Size by Type (M USD)
- Table 4. Global Visual-Tactile Dexterous Hand Market Size by Application
- Table 5. Visual-Tactile Dexterous Hand Market Size Comparison by Region (M USD)
- Table 6. Global Visual-Tactile Dexterous Hand Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Visual-Tactile Dexterous Hand Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Visual-Tactile Dexterous Hand Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Visual-Tactile Dexterous Hand Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Visual-Tactile Dexterous Hand as of 2025)
- Table 11. Global Market Visual-Tactile Dexterous Hand Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Visual-Tactile Dexterous Hand Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Visual-Tactile Dexterous Hand Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Visual-Tactile Dexterous Hand Sales by Type (K Units)
- Table 27. Global Visual-Tactile Dexterous Hand Market Size by Type (M USD)

Table 28. Global Visual-Tactile Dexterous Hand Sales (K Units) by Type (2020-2025)

Table 29. Global Visual-Tactile Dexterous Hand Sales Market Share by Type (2020-2025)

Table 30. Global Visual-Tactile Dexterous Hand Market Size (M USD) by Type (2020-2025)

Table 31. Global Visual-Tactile Dexterous Hand Market Share by Type (2020-2025)

Table 32. Global Visual-Tactile Dexterous Hand Price (USD/Unit) by Type (2020-2025)

Table 33. Global Visual-Tactile Dexterous Hand Sales (K Units) by Application

Table 34. Global Visual-Tactile Dexterous Hand Market Size by Application

Table 35. Global Visual-Tactile Dexterous Hand Sales by Application (2020-2025) & (K Units)

Table 36. Global Visual-Tactile Dexterous Hand Sales Market Share by Application (2020-2025)

Table 37. Global Visual-Tactile Dexterous Hand Market Size by Application (2020-2025) & (M USD)

Table 38. Global Visual-Tactile Dexterous Hand Market Share by Application (2020-2025)

Table 39. Global Visual-Tactile Dexterous Hand Sales Growth Rate by Application (2020-2025)

Table 40. Global Visual-Tactile Dexterous Hand Sales by Region (2020-2025) & (K Units)

Table 41. Global Visual-Tactile Dexterous Hand Sales Market Share by Region (2020-2025)

Table 42. Global Visual-Tactile Dexterous Hand Market Size by Region (2020-2025) & (M USD)

Table 43. Global Visual-Tactile Dexterous Hand Market Size by Region (2020-2025)

Table 44. North America Visual-Tactile Dexterous Hand Sales by Country (2020-2025) & (K Units)

Table 45. North America Visual-Tactile Dexterous Hand Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Visual-Tactile Dexterous Hand Sales by Country (2020-2025) & (K Units)

Table 47. Europe Visual-Tactile Dexterous Hand Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Visual-Tactile Dexterous Hand Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Visual-Tactile Dexterous Hand Market Size by Region (2020-2025) & (M USD)

Table 50. South America Visual-Tactile Dexterous Hand Sales by Country (2020-2025)

& (K Units)

Table 51. South America Visual-Tactile Dexterous Hand Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Visual-Tactile Dexterous Hand Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Visual-Tactile Dexterous Hand Market Size by Region (2020-2025) & (M USD)

Table 54. Global Visual-Tactile Dexterous Hand Production (K Units) by Region(2020-2025)

Table 55. Global Visual-Tactile Dexterous Hand Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Visual-Tactile Dexterous Hand Revenue Market Share by Region (2020-2025)

Table 57. Global Visual-Tactile Dexterous Hand Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Visual-Tactile Dexterous Hand Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Visual-Tactile Dexterous Hand Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Visual-Tactile Dexterous Hand Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Visual-Tactile Dexterous Hand Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Allegrohand Basic Information

Table 63. Allegrohand Visual-Tactile Dexterous Hand Product Overview

Table 64. Allegrohand Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Allegrohand Business Overview

Table 66. Allegrohand SWOT Analysis

Table 67. Allegrohand Recent Developments

Table 68. Robotiq Basic Information

Table 69. Robotiq Visual-Tactile Dexterous Hand Product Overview

Table 70. Robotiq Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Robotiq Business Overview

Table 72. Robotiq SWOT Analysis

Table 73. Robotiq Recent Developments

Table 74. SCHUNK Basic Information

Table 75. SCHUNK Visual-Tactile Dexterous Hand Product Overview

- Table 76. SCHUNK Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. SCHUNK Business Overview
- Table 78. SCHUNK SWOT Analysis
- Table 79. SCHUNK Recent Developments
- Table 80. Shadow Robot Basic Information
- Table 81. Shadow Robot Visual-Tactile Dexterous Hand Product Overview
- Table 82. Shadow Robot Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Shadow Robot Business Overview
- Table 84. Shadow Robot Recent Developments
- Table 85. Barrett Technology Basic Information
- Table 86. Barrett Technology Visual-Tactile Dexterous Hand Product Overview
- Table 87. Barrett Technology Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Barrett Technology Business Overview
- Table 89. Barrett Technology Recent Developments
- Table 90. Daimon Robotics Basic Information
- Table 91. Daimon Robotics Visual-Tactile Dexterous Hand Product Overview
- Table 92. Daimon Robotics Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Daimon Robotics Business Overview
- Table 94. Daimon Robotics Recent Developments
- Table 95. AgiBot Innovation Basic Information
- Table 96. AgiBot Innovation Visual-Tactile Dexterous Hand Product Overview
- Table 97. AgiBot Innovation Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. AgiBot Innovation Business Overview
- Table 99. AgiBot Innovation Recent Developments
- Table 100. PaXini Tech Basic Information
- Table 101. PaXini Tech Visual-Tactile Dexterous Hand Product Overview
- Table 102. PaXini Tech Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. PaXini Tech Business Overview
- Table 104. PaXini Tech Recent Developments
- Table 105. Foxtech Robotics Basic Information
- Table 106. Foxtech Robotics Visual-Tactile Dexterous Hand Product Overview
- Table 107. Foxtech Robotics Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 108. Foxtech Robotics Business Overview
- Table 109. Foxtech Robotics Recent Developments
- Table 110. OYMotion Basic Information
- Table 111. OYMotion Visual-Tactile Dexterous Hand Product Overview
- Table 112. OYMotion Visual-Tactile Dexterous Hand Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. OYMotion Business Overview
- Table 114. OYMotion Recent Developments
- Table 115. Global Visual-Tactile Dexterous Hand Sales Forecast by Region (2026-2035) & (K Units)
- Table 116. Global Visual-Tactile Dexterous Hand Market Size Forecast by Region (2026-2035) & (M USD)
- Table 117. North America Visual-Tactile Dexterous Hand Sales Forecast by Country (2026-2035) & (K Units)
- Table 118. North America Visual-Tactile Dexterous Hand Market Size Forecast by Country (2026-2035) & (M USD)
- Table 119. Europe Visual-Tactile Dexterous Hand Sales Forecast by Country (2026-2035) & (K Units)
- Table 120. Europe Visual-Tactile Dexterous Hand Market Size Forecast by Country (2026-2035) & (M USD)
- Table 121. Asia Pacific Visual-Tactile Dexterous Hand Sales Forecast by Region (2026-2035) & (K Units)
- Table 122. Asia Pacific Visual-Tactile Dexterous Hand Market Size Forecast by Region (2026-2035) & (M USD)
- Table 123. South America Visual-Tactile Dexterous Hand Sales Forecast by Country (2026-2035) & (K Units)
- Table 124. South America Visual-Tactile Dexterous Hand Market Size Forecast by Country (2026-2035) & (M USD)
- Table 125. Middle East and Africa Visual-Tactile Dexterous Hand Sales Forecast by Country (2026-2035) & (Units)
- Table 126. Middle East and Africa Visual-Tactile Dexterous Hand Market Size Forecast by Country (2026-2035) & (M USD)
- Table 127. Global Visual-Tactile Dexterous Hand Sales Forecast by Type (2026-2035) & (K Units)
- Table 128. Global Visual-Tactile Dexterous Hand Market Size Forecast by Type (2026-2035) & (M USD)
- Table 129. Global Visual-Tactile Dexterous Hand Price Forecast by Type (2026-2035) & (USD/Unit)
- Table 130. Global Visual-Tactile Dexterous Hand Sales (K Units) Forecast by

Application (2026-2035)

Table 131. Global Visual-Tactile Dexterous Hand Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

Figure 1. Product Picture of Visual-Tactile Dexterous Hand

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Visual-Tactile Dexterous Hand Market Size (M USD), 2025-2035

Figure 5. Global Visual-Tactile Dexterous Hand Market Size (M USD) (2020-2035)

Figure 6. Global Visual-Tactile Dexterous Hand Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Visual-Tactile Dexterous Hand Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Visual-Tactile Dexterous Hand Product Life Cycle

Figure 13. Visual-Tactile Dexterous Hand Sales Share by Manufacturers in 2025

Figure 14. Global Visual-Tactile Dexterous Hand Revenue Share by Manufacturers in 2025

Figure 15. Visual-Tactile Dexterous Hand Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Visual-Tactile Dexterous Hand Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Visual-Tactile Dexterous Hand Revenue in 2025

Figure 18. Industry Chain Map of Visual-Tactile Dexterous Hand

Figure 19. Global Visual-Tactile Dexterous Hand Market PEST Analysis

Figure 20. Global Visual-Tactile Dexterous Hand Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Visual-Tactile Dexterous Hand Market Share by Type

Figure 27. Sales Market Share of Visual-Tactile Dexterous Hand by Type (2020-2025)

Figure 28. Sales Market Share of Visual-Tactile Dexterous Hand by Type in 2025

Figure 29. Market Share of Visual-Tactile Dexterous Hand by Type (2020-2025)

Figure 30. Market Share of Visual-Tactile Dexterous Hand by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Visual-Tactile Dexterous Hand Market Share by Application

Figure 33. Global Visual-Tactile Dexterous Hand Sales Market Share by Application (2020-2025)

Figure 34. Global Visual-Tactile Dexterous Hand Sales Market Share by Application in 2025

Figure 35. Global Visual-Tactile Dexterous Hand Market Share by Application (2020-2025)

Figure 36. Global Visual-Tactile Dexterous Hand Market Share by Application in 2025

Figure 37. Global Visual-Tactile Dexterous Hand Sales Growth Rate by Application (2020-2025)

Figure 38. Global Visual-Tactile Dexterous Hand Sales Market Share by Region (2020-2025)

Figure 39. Global Visual-Tactile Dexterous Hand Market Size by Region (2020-2025)

Figure 40. North America Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Visual-Tactile Dexterous Hand Sales Market Share by Country in 2024

Figure 43. North America Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Visual-Tactile Dexterous Hand Market Size by Country in 2024

Figure 45. U.S. Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Visual-Tactile Dexterous Hand Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Visual-Tactile Dexterous Hand Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Visual-Tactile Dexterous Hand Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Visual-Tactile Dexterous Hand Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Visual-Tactile Dexterous Hand Sales Market Share by Country in 2024

Figure 53. Europe Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Visual-Tactile Dexterous Hand Market Size by Country in 2024

Figure 55. Germany Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Visual-Tactile Dexterous Hand Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Visual-Tactile Dexterous Hand Sales Market Share by Region in 2024

Figure 67. Asia Pacific Visual-Tactile Dexterous Hand Market Size by Region in 2024

Figure 68. China Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Visual-Tactile Dexterous Hand Sales and Growth Rate (K Units)

Figure 79. South America Visual-Tactile Dexterous Hand Sales Market Share by Country in 2024

Figure 80. South America Visual-Tactile Dexterous Hand Market Size and Growth Rate (M USD)

Figure 81. South America Visual-Tactile Dexterous Hand Market Size by Country in 2024

Figure 82. Brazil Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Visual-Tactile Dexterous Hand Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Visual-Tactile Dexterous Hand Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Visual-Tactile Dexterous Hand Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Visual-Tactile Dexterous Hand Market Size by Region in 2024

Figure 92. Saudi Arabia Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Visual-Tactile Dexterous Hand Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 94. UAE Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Visual-Tactile Dexterous Hand Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Visual-Tactile Dexterous Hand Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Visual-Tactile Dexterous Hand Production Market Share by Region (2020-2025)

Figure 103. North America Visual-Tactile Dexterous Hand Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Visual-Tactile Dexterous Hand Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Visual-Tactile Dexterous Hand Production (K Units) Growth Rate (2020-2025)

Figure 106. China Visual-Tactile Dexterous Hand Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Visual-Tactile Dexterous Hand Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Visual-Tactile Dexterous Hand Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Visual-Tactile Dexterous Hand Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Visual-Tactile Dexterous Hand Market Share Forecast by Type (2026-2035)

Figure 111. Global Visual-Tactile Dexterous Hand Sales Forecast by Application (2026-2035)

Figure 112. Global Visual-Tactile Dexterous Hand Market Share Forecast by Application (2026-2035)

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