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Global Robot Hand Force Sensor Market Growth 2026-2032

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Abstracts

The global Robot Hand Force Sensor market size is predicted to grow from US$ 313 million in 2025 to US$ 1117 million in 2032; it is expected to grow at a CAGR of 19.9% from 2026 to 2032.

In 2025, global Robot Hand Force Sensor production reached approximately 3.2 million units, with an average global market price of around USD 100 per unit.

The gross profit margin of major companies in the industry was approximately 32%–50%.

In 2025, global production capacity of Robot Hand Force Sensor was approximately 4.1 million units.

Robot Hand Force Sensors are compact sensing devices used in robotic hands, fingers, fingertips, or gripping mechanisms to measure contact force, grip force, pressure, or multi-axis load during manipulation. Technologies include strain-gauge, piezoresistive, capacitive, piezoelectric, optical, and MEMS-based sensing structures. The sensors provide real-time force feedback for closed-loop grasp control, object handling, dexterous manipulation, collision detection, and human-robot interaction.

The industrial chain of Robot Hand Force Sensor includes upstream strain gauges, MEMS wafers, piezoresistive materials, electrodes, flexible substrates, semiconductor chips, adhesives, housings, and connectors; midstream covers sensor design, microfabrication, packaging, calibration, electronics integration, signal processing, testing, and reliability validation; downstream applications mainly include dexterous hands, humanoid robots, grippers, collaborative robots, industrial robots, and service

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robots.

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

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

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

Global key Robot Hand Force Sensor players cover ATI Industrial Automation, Inc., Kistler Group, OnRobot A/S, Robotiq Inc., FUTEK Advanced Sensor Technology, Inc., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

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

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view of the current state and future trajectory in the global Robot Hand Force Sensor.

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

Market Segmentation

Segmentation by Type:

Strain Gauge Force Sensors

Piezoelectric Force Sensors

Capacitive Force Sensors

Segmentation by Measurement Configuration:

Single-axis Force Sensors

Multi-axis Force Sensors

Distributed Force Sensor Arrays

Segmentation by Measurement Range:

Low-range??10 N?

Medium-range??10–100 N?

High-range??100 N?

Segmentation by Application:

Grip Force Control

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Contact and Collision Detection

Object Weight and Manipulation Force Measurement

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

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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.

ATI Industrial Automation, Inc.

Kistler Group

OnRobot A/S

Robotiq Inc.

FUTEK Advanced Sensor Technology, Inc.

ME-Me?systeme GmbH

Sunrise Instruments Co., Ltd.

OptoForce Ltd.

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SynTouch Inc.

Tekscan, Inc.

Changzhou Right Measurement and Control System Co., Ltd.

Kunwei Technology Co., Ltd.

SRI Sensor Technology Co., Ltd.

Nanjing Bio-inspired Intelligent Technology Co., Ltd.

Key Questions Addressed in this Report

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

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

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

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

How does Robot Hand Force 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 Robot Hand Force Sensor Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Robot Hand Force Sensor by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Robot Hand Force Sensor by Country/Region, 2021, 2025 & 2032
2.2 Robot Hand Force Sensor Segment by Type
  2.2.1 Strain Gauge Force Sensors
  2.2.2 Piezoelectric Force Sensors
  2.2.3 Capacitive Force Sensors
  2.2.4 Robot Hand Force Sensor Sales by Type
    2.2.4.1 Global Robot Hand Force Sensor Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Robot Hand Force Sensor Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Robot Hand Force Sensor Sale Price by Type (2021-2026)
2.3 Robot Hand Force Sensor Segment by Measurement Configuration
  2.3.1 Single-axis Force Sensors
  2.3.2 Multi-axis Force Sensors
  2.3.3 Distributed Force Sensor Arrays
  2.3.4 Robot Hand Force Sensor Sales by Measurement Configuration
    2.3.4.1 Global Robot Hand Force Sensor Sales Market Share by Measurement Configuration (2021-2026)
    2.3.4.2 Global Robot Hand Force Sensor Revenue and Market Share by Measurement Configuration (2021-2026)

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2.3.4.3 Global Robot Hand Force Sensor Sale Price by Measurement Configuration (2021-2026)
2.4 Robot Hand Force Sensor Segment by Measurement Range
2.4.1 Low-range??10 N?
2.4.2 Medium-range??10–100 N?
2.4.3 High-range??100 N?
2.4.4 Robot Hand Force Sensor Sales by Measurement Range
2.4.4.1 Global Robot Hand Force Sensor Sales Market Share by Measurement Range (2021-2026)
2.4.4.2 Global Robot Hand Force Sensor Revenue and Market Share by Measurement Range (2021-2026)
2.4.4.3 Global Robot Hand Force Sensor Sale Price by Measurement Range (2021-2026)
2.5 Robot Hand Force Sensor Segment by Application
2.5.1 Grip Force Control
2.5.2 Contact and Collision Detection
2.5.3 Object Weight and Manipulation Force Measurement
2.5.4 Other
2.5.5 Robot Hand Force Sensor Sales by Application
2.5.5.1 Global Robot Hand Force Sensor Sale Market Share by Application (2021-2026)
2.5.5.2 Global Robot Hand Force Sensor Revenue and Market Share by Application (2021-2026)
2.5.5.3 Global Robot Hand Force Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Robot Hand Force Sensor Breakdown Data by Company
3.1.1 Global Robot Hand Force Sensor Annual Sales by Company (2021-2026)
3.1.2 Global Robot Hand Force Sensor Sales Market Share by Company (2021-2026)
3.2 Global Robot Hand Force Sensor Annual Revenue by Company (2021-2026)
3.2.1 Global Robot Hand Force Sensor Revenue by Company (2021-2026)
3.2.2 Global Robot Hand Force Sensor Revenue Market Share by Company (2021-2026)
3.3 Global Robot Hand Force Sensor Sale Price by Company
3.4 Key Manufacturers Robot Hand Force Sensor Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Robot Hand Force Sensor Product Location Distribution
3.4.2 Players Robot Hand Force Sensor Products Offered

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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 ROBOT HAND FORCE SENSOR BY GEOGRAPHIC REGION

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

5 AMERICAS

5.1 Americas Robot Hand Force Sensor Sales by Country
5.1.1 Americas Robot Hand Force Sensor Sales by Country (2021-2026)
5.1.2 Americas Robot Hand Force Sensor Revenue by Country (2021-2026)
5.2 Americas Robot Hand Force Sensor Sales by Type (2021-2026)
5.3 Americas Robot Hand Force Sensor Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

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6.1 APAC Robot Hand Force Sensor Sales by Region
6.1.1 APAC Robot Hand Force Sensor Sales by Region (2021-2026)
6.1.2 APAC Robot Hand Force Sensor Revenue by Region (2021-2026)
6.2 APAC Robot Hand Force Sensor Sales by Type (2021-2026)
6.3 APAC Robot Hand Force 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 Robot Hand Force Sensor by Country
7.1.1 Europe Robot Hand Force Sensor Sales by Country (2021-2026)
7.1.2 Europe Robot Hand Force Sensor Revenue by Country (2021-2026)
7.2 Europe Robot Hand Force Sensor Sales by Type (2021-2026)
7.3 Europe Robot Hand Force 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 Robot Hand Force Sensor by Country
8.1.1 Middle East & Africa Robot Hand Force Sensor Sales by Country (2021-2026)
8.1.2 Middle East & Africa Robot Hand Force Sensor Revenue by Country (2021-2026)
8.2 Middle East & Africa Robot Hand Force Sensor Sales by Type (2021-2026)
8.3 Middle East & Africa Robot Hand Force Sensor Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

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info@marketpublishers.com

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 Robot Hand Force Sensor
10.3 Manufacturing Process Analysis of Robot Hand Force Sensor
10.4 Industry Chain Structure of Robot Hand Force Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Robot Hand Force Sensor Distributors
11.3 Robot Hand Force Sensor Customer

12 WORLD FORECAST REVIEW FOR ROBOT HAND FORCE SENSOR BY GEOGRAPHIC REGION

12.1 Global Robot Hand Force Sensor Market Size Forecast by Region
  12.1.1 Global Robot Hand Force Sensor Forecast by Region (2027-2032)
  12.1.2 Global Robot Hand Force Sensor Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Robot Hand Force Sensor Forecast by Type (2027-2032)
12.7 Global Robot Hand Force Sensor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 ATI Industrial Automation, Inc.

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13.1.1 ATI Industrial Automation, Inc. Company Information
13.1.2 ATI Industrial Automation, Inc. Robot Hand Force Sensor Product Portfolios and Specifications
13.1.3 ATI Industrial Automation, Inc. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 ATI Industrial Automation, Inc. Main Business Overview
13.1.5 ATI Industrial Automation, Inc. Latest Developments
13.2 Kistler Group
13.2.1 Kistler Group Company Information
13.2.2 Kistler Group Robot Hand Force Sensor Product Portfolios and Specifications
13.2.3 Kistler Group Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Kistler Group Main Business Overview
13.2.5 Kistler Group Latest Developments
13.3 OnRobot A/S
13.3.1 OnRobot A/S Company Information
13.3.2 OnRobot A/S Robot Hand Force Sensor Product Portfolios and Specifications
13.3.3 OnRobot A/S Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 OnRobot A/S Main Business Overview
13.3.5 OnRobot A/S Latest Developments
13.4 Robotiq Inc.
13.4.1 Robotiq Inc. Company Information
13.4.2 Robotiq Inc. Robot Hand Force Sensor Product Portfolios and Specifications
13.4.3 Robotiq Inc. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Robotiq Inc. Main Business Overview
13.4.5 Robotiq Inc. Latest Developments
13.5 FUTEK Advanced Sensor Technology, Inc.
13.5.1 FUTEK Advanced Sensor Technology, Inc. Company Information
13.5.2 FUTEK Advanced Sensor Technology, Inc. Robot Hand Force Sensor Product Portfolios and Specifications
13.5.3 FUTEK Advanced Sensor Technology, Inc. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 FUTEK Advanced Sensor Technology, Inc. Main Business Overview
13.5.5 FUTEK Advanced Sensor Technology, Inc. Latest Developments
13.6 ME-Me?systeme GmbH
13.6.1 ME-Me?systeme GmbH Company Information
13.6.2 ME-Me?systeme GmbH Robot Hand Force Sensor Product Portfolios and

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Specifications
13.6.3 ME-Me?systeme GmbH Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 ME-Me?systeme GmbH Main Business Overview
13.6.5 ME-Me?systeme GmbH Latest Developments
13.7 Sunrise Instruments Co., Ltd.
13.7.1 Sunrise Instruments Co., Ltd. Company Information
13.7.2 Sunrise Instruments Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
13.7.3 Sunrise Instruments Co., Ltd. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Sunrise Instruments Co., Ltd. Main Business Overview
13.7.5 Sunrise Instruments Co., Ltd. Latest Developments
13.8 OptoForce Ltd.
13.8.1 OptoForce Ltd. Company Information
13.8.2 OptoForce Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
13.8.3 OptoForce Ltd. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 OptoForce Ltd. Main Business Overview
13.8.5 OptoForce Ltd. Latest Developments
13.9 SynTouch Inc.
13.9.1 SynTouch Inc. Company Information
13.9.2 SynTouch Inc. Robot Hand Force Sensor Product Portfolios and Specifications
13.9.3 SynTouch Inc. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 SynTouch Inc. Main Business Overview
13.9.5 SynTouch Inc. Latest Developments
13.10 Tekscan, Inc.
13.10.1 Tekscan, Inc. Company Information
13.10.2 Tekscan, Inc. Robot Hand Force Sensor Product Portfolios and Specifications
13.10.3 Tekscan, Inc. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Tekscan, Inc. Main Business Overview
13.10.5 Tekscan, Inc. Latest Developments
13.11 Changzhou Right Measurement and Control System Co., Ltd.
13.11.1 Changzhou Right Measurement and Control System Co., Ltd. Company Information
13.11.2 Changzhou Right Measurement and Control System Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications

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info@marketpublishers.com

13.11.3 Changzhou Right Measurement and Control System Co., Ltd. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Changzhou Right Measurement and Control System Co., Ltd. Main Business Overview
13.11.5 Changzhou Right Measurement and Control System Co., Ltd. Latest Developments
13.12 Kunwei Technology Co., Ltd.
13.12.1 Kunwei Technology Co., Ltd. Company Information
13.12.2 Kunwei Technology Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
13.12.3 Kunwei Technology Co., Ltd. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Kunwei Technology Co., Ltd. Main Business Overview
13.12.5 Kunwei Technology Co., Ltd. Latest Developments
13.13 SRI Sensor Technology Co., Ltd.
13.13.1 SRI Sensor Technology Co., Ltd. Company Information
13.13.2 SRI Sensor Technology Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
13.13.3 SRI Sensor Technology Co., Ltd. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 SRI Sensor Technology Co., Ltd. Main Business Overview
13.13.5 SRI Sensor Technology Co., Ltd. Latest Developments
13.14 Nanjing Bio-inspired Intelligent Technology Co., Ltd.
13.14.1 Nanjing Bio-inspired Intelligent Technology Co., Ltd. Company Information
13.14.2 Nanjing Bio-inspired Intelligent Technology Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
13.14.3 Nanjing Bio-inspired Intelligent Technology Co., Ltd. Robot Hand Force Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Nanjing Bio-inspired Intelligent Technology Co., Ltd. Main Business Overview
13.14.5 Nanjing Bio-inspired Intelligent Technology Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Robot Hand Force Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Robot Hand Force Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Strain Gauge Force Sensors
Table 4. Major Players of Piezoelectric Force Sensors
Table 5. Major Players of Capacitive Force Sensors
Table 6. Global Robot Hand Force Sensor Sales by Type (2021-2026) & (K Units)
Table 7. Global Robot Hand Force Sensor Sales Market Share by Type (2021-2026)
Table 8. Global Robot Hand Force Sensor Revenue by Type (2021-2026) & ($ million)
Table 9. Global Robot Hand Force Sensor Revenue Market Share by Type (2021-2026)
Table 10. Global Robot Hand Force Sensor Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Major Players of Single-axis Force Sensors
Table 12. Major Players of Multi-axis Force Sensors
Table 13. Major Players of Distributed Force Sensor Arrays
Table 14. Global Robot Hand Force Sensor Sales by Measurement Configuration (2021-2026) & (K Units)
Table 15. Global Robot Hand Force Sensor Sales Market Share by Measurement Configuration (2021-2026)
Table 16. Global Robot Hand Force Sensor Revenue by Measurement Configuration (2021-2026) & ($ million)
Table 17. Global Robot Hand Force Sensor Revenue Market Share by Measurement Configuration (2021-2026)
Table 18. Global Robot Hand Force Sensor Sale Price by Measurement Configuration (2021-2026) & (US$/Unit)
Table 19. Major Players of Low-range??10 N?
Table 20. Major Players of Medium-range??10–100 N?
Table 21. Major Players of High-range??100 N?
Table 22. Global Robot Hand Force Sensor Sales by Measurement Range (2021-2026) & (K Units)
Table 23. Global Robot Hand Force Sensor Sales Market Share by Measurement Range (2021-2026)
Table 24. Global Robot Hand Force Sensor Revenue by Measurement Range (2021-2026) & ($ million)

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Table 25. Global Robot Hand Force Sensor Revenue Market Share by Measurement Range (2021-2026)
Table 26. Global Robot Hand Force Sensor Sale Price by Measurement Range (2021-2026) & (US$/Unit)
Table 27. Global Robot Hand Force Sensor Sale by Application (2021-2026) & (K Units)
Table 28. Global Robot Hand Force Sensor Sale Market Share by Application (2021-2026)
Table 29. Global Robot Hand Force Sensor Revenue by Application (2021-2026) & ($ million)
Table 30. Global Robot Hand Force Sensor Revenue Market Share by Application (2021-2026)
Table 31. Global Robot Hand Force Sensor Sale Price by Application (2021-2026) & (US$/Unit)
Table 32. Global Robot Hand Force Sensor Sales by Company (2021-2026) & (K Units)
Table 33. Global Robot Hand Force Sensor Sales Market Share by Company (2021-2026)
Table 34. Global Robot Hand Force Sensor Revenue by Company (2021-2026) & ($ millions)
Table 35. Global Robot Hand Force Sensor Revenue Market Share by Company (2021-2026)
Table 36. Global Robot Hand Force Sensor Sale Price by Company (2021-2026) & (US$/Unit)
Table 37. Key Manufacturers Robot Hand Force Sensor Producing Area Distribution and Sales Area
Table 38. Players Robot Hand Force Sensor Products Offered
Table 39. Robot Hand Force Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 40. New Products and Potential Entrants
Table 41. Market M&A Activity & Strategy
Table 42. Global Robot Hand Force Sensor Sales by Geographic Region (2021-2026) & (K Units)
Table 43. Global Robot Hand Force Sensor Sales Market Share Geographic Region (2021-2026)
Table 44. Global Robot Hand Force Sensor Revenue by Geographic Region (2021-2026) & ($ millions)
Table 45. Global Robot Hand Force Sensor Revenue Market Share by Geographic Region (2021-2026)
Table 46. Global Robot Hand Force Sensor Sales by Country/Region (2021-2026) & (K Units)

+357 96 030922
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Table 47. Global Robot Hand Force Sensor Sales Market Share by Country/Region (2021-2026)
Table 48. Global Robot Hand Force Sensor Revenue by Country/Region (2021-2026) & ($ millions)
Table 49. Global Robot Hand Force Sensor Revenue Market Share by Country/Region (2021-2026)
Table 50. Americas Robot Hand Force Sensor Sales by Country (2021-2026) & (K Units)
Table 51. Americas Robot Hand Force Sensor Sales Market Share by Country (2021-2026)
Table 52. Americas Robot Hand Force Sensor Revenue by Country (2021-2026) & ($ millions)
Table 53. Americas Robot Hand Force Sensor Sales by Type (2021-2026) & (K Units)
Table 54. Americas Robot Hand Force Sensor Sales by Application (2021-2026) & (K Units)
Table 55. APAC Robot Hand Force Sensor Sales by Region (2021-2026) & (K Units)
Table 56. APAC Robot Hand Force Sensor Sales Market Share by Region (2021-2026)
Table 57. APAC Robot Hand Force Sensor Revenue by Region (2021-2026) & ($ millions)
Table 58. APAC Robot Hand Force Sensor Sales by Type (2021-2026) & (K Units)
Table 59. APAC Robot Hand Force Sensor Sales by Application (2021-2026) & (K Units)
Table 60. Europe Robot Hand Force Sensor Sales by Country (2021-2026) & (K Units)
Table 61. Europe Robot Hand Force Sensor Revenue by Country (2021-2026) & ($ millions)
Table 62. Europe Robot Hand Force Sensor Sales by Type (2021-2026) & (K Units)
Table 63. Europe Robot Hand Force Sensor Sales by Application (2021-2026) & (K Units)
Table 64. Middle East & Africa Robot Hand Force Sensor Sales by Country (2021-2026) & (K Units)
Table 65. Middle East & Africa Robot Hand Force Sensor Revenue Market Share by Country (2021-2026)
Table 66. Middle East & Africa Robot Hand Force Sensor Sales by Type (2021-2026) & (K Units)
Table 67. Middle East & Africa Robot Hand Force Sensor Sales by Application (2021-2026) & (K Units)
Table 68. Key Market Drivers & Growth Opportunities of Robot Hand Force Sensor
Table 69. Key Market Challenges & Risks of Robot Hand Force Sensor
Table 70. Key Industry Trends of Robot Hand Force Sensor

+357 96 030922
info@marketpublishers.com

Table 71. Robot Hand Force Sensor Raw Material
Table 72. Key Suppliers of Raw Materials
Table 73. Robot Hand Force Sensor Distributors List
Table 74. Robot Hand Force Sensor Customer List
Table 75. Global Robot Hand Force Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 76. Global Robot Hand Force Sensor Revenue Forecast by Region (2027-2032) & ($ millions)
Table 77. Americas Robot Hand Force Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 78. Americas Robot Hand Force Sensor Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 79. APAC Robot Hand Force Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 80. APAC Robot Hand Force Sensor Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 81. Europe Robot Hand Force Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 82. Europe Robot Hand Force Sensor Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Middle East & Africa Robot Hand Force Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 84. Middle East & Africa Robot Hand Force Sensor Revenue Forecast by Country (2027-2032) & ($ millions)
Table 85. Global Robot Hand Force Sensor Sales Forecast by Type (2027-2032) & (K Units)
Table 86. Global Robot Hand Force Sensor Revenue Forecast by Type (2027-2032) & ($ millions)
Table 87. Global Robot Hand Force Sensor Sales Forecast by Application (2027-2032) & (K Units)
Table 88. Global Robot Hand Force Sensor Revenue Forecast by Application (2027-2032) & ($ millions)
Table 89. ATI Industrial Automation, Inc. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 90. ATI Industrial Automation, Inc. Robot Hand Force Sensor Product Portfolios and Specifications
Table 91. ATI Industrial Automation, Inc. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 92. ATI Industrial Automation, Inc. Main Business

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Table 93. ATI Industrial Automation, Inc. Latest Developments
Table 94. Kistler Group Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 95. Kistler Group Robot Hand Force Sensor Product Portfolios and Specifications
Table 96. Kistler Group Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 97. Kistler Group Main Business
Table 98. Kistler Group Latest Developments
Table 99. OnRobot A/S Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 100. OnRobot A/S Robot Hand Force Sensor Product Portfolios and Specifications
Table 101. OnRobot A/S Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 102. OnRobot A/S Main Business
Table 103. OnRobot A/S Latest Developments
Table 104. Robotiq Inc. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 105. Robotiq Inc. Robot Hand Force Sensor Product Portfolios and Specifications
Table 106. Robotiq Inc. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 107. Robotiq Inc. Main Business
Table 108. Robotiq Inc. Latest Developments
Table 109. FUTEK Advanced Sensor Technology, Inc. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 110. FUTEK Advanced Sensor Technology, Inc. Robot Hand Force Sensor Product Portfolios and Specifications
Table 111. FUTEK Advanced Sensor Technology, Inc. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 112. FUTEK Advanced Sensor Technology, Inc. Main Business
Table 113. FUTEK Advanced Sensor Technology, Inc. Latest Developments
Table 114. ME-Me?systeme GmbH Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 115. ME-Me?systeme GmbH Robot Hand Force Sensor Product Portfolios and Specifications
Table 116. ME-Me?systeme GmbH Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 117. ME-Me?systeme GmbH Main Business
Table 118. ME-Me?systeme GmbH Latest Developments

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Table 119. Sunrise Instruments Co., Ltd. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 120. Sunrise Instruments Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
Table 121. Sunrise Instruments Co., Ltd. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 122. Sunrise Instruments Co., Ltd. Main Business
Table 123. Sunrise Instruments Co., Ltd. Latest Developments
Table 124. OptoForce Ltd. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 125. OptoForce Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
Table 126. OptoForce Ltd. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 127. OptoForce Ltd. Main Business
Table 128. OptoForce Ltd. Latest Developments
Table 129. SynTouch Inc. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 130. SynTouch Inc. Robot Hand Force Sensor Product Portfolios and Specifications
Table 131. SynTouch Inc. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 132. SynTouch Inc. Main Business
Table 133. SynTouch Inc. Latest Developments
Table 134. Tekscan, Inc. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 135. Tekscan, Inc. Robot Hand Force Sensor Product Portfolios and Specifications
Table 136. Tekscan, Inc. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 137. Tekscan, Inc. Main Business
Table 138. Tekscan, Inc. Latest Developments
Table 139. Changzhou Right Measurement and Control System Co., Ltd. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 140. Changzhou Right Measurement and Control System Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
Table 141. Changzhou Right Measurement and Control System Co., Ltd. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin

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(2021-2026)
Table 142. Changzhou Right Measurement and Control System Co., Ltd. Main Business
Table 143. Changzhou Right Measurement and Control System Co., Ltd. Latest Developments
Table 144. Kunwei Technology Co., Ltd. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 145. Kunwei Technology Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
Table 146. Kunwei Technology Co., Ltd. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 147. Kunwei Technology Co., Ltd. Main Business
Table 148. Kunwei Technology Co., Ltd. Latest Developments
Table 149. SRI Sensor Technology Co., Ltd. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 150. SRI Sensor Technology Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
Table 151. SRI Sensor Technology Co., Ltd. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 152. SRI Sensor Technology Co., Ltd. Main Business
Table 153. SRI Sensor Technology Co., Ltd. Latest Developments
Table 154. Nanjing Bio-inspired Intelligent Technology Co., Ltd. Basic Information, Robot Hand Force Sensor Manufacturing Base, Sales Area and Its Competitors
Table 155. Nanjing Bio-inspired Intelligent Technology Co., Ltd. Robot Hand Force Sensor Product Portfolios and Specifications
Table 156. Nanjing Bio-inspired Intelligent Technology Co., Ltd. Robot Hand Force Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 157. Nanjing Bio-inspired Intelligent Technology Co., Ltd. Main Business
Table 158. Nanjing Bio-inspired Intelligent Technology Co., Ltd. Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Robot Hand Force Sensor
Figure 2. Robot Hand Force Sensor Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Robot Hand Force Sensor Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Robot Hand Force Sensor Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Robot Hand Force Sensor Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Robot Hand Force Sensor Sales Market Share by Country/Region (2025)
Figure 10. Robot Hand Force Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Strain Gauge Force Sensors
Figure 12. Product Picture of Piezoelectric Force Sensors
Figure 13. Product Picture of Capacitive Force Sensors
Figure 14. Global Robot Hand Force Sensor Sales Market Share by Type in 2026
Figure 15. Global Robot Hand Force Sensor Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Single-axis Force Sensors
Figure 17. Product Picture of Multi-axis Force Sensors
Figure 18. Product Picture of Distributed Force Sensor Arrays
Figure 19. Global Robot Hand Force Sensor Sales Market Share by Measurement Configuration in 2026
Figure 20. Global Robot Hand Force Sensor Revenue Market Share by Measurement Configuration (2021-2026)
Figure 21. Product Picture of Low-range??10 N?
Figure 22. Product Picture of Medium-range??10–100 N?
Figure 23. Product Picture of High-range??100 N?
Figure 24. Global Robot Hand Force Sensor Sales Market Share by Measurement Range in 2026
Figure 25. Global Robot Hand Force Sensor Revenue Market Share by Measurement Range (2021-2026)
Figure 26. Robot Hand Force Sensor Consumed in Grip Force Control
Figure 27. Global Robot Hand Force Sensor Market: Grip Force Control (2021-2026) &

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(K Units)
Figure 28. Robot Hand Force Sensor Consumed in Contact and Collision Detection
Figure 29. Global Robot Hand Force Sensor Market: Contact and Collision Detection (2021-2026) & (K Units)
Figure 30. Robot Hand Force Sensor Consumed in Object Weight and Manipulation Force Measurement
Figure 31. Global Robot Hand Force Sensor Market: Object Weight and Manipulation Force Measurement (2021-2026) & (K Units)
Figure 32. Robot Hand Force Sensor Consumed in Other
Figure 33. Global Robot Hand Force Sensor Market: Other (2021-2026) & (K Units)
Figure 34. Global Robot Hand Force Sensor Sale Market Share by Application (2025)
Figure 35. Global Robot Hand Force Sensor Revenue Market Share by Application in 2025
Figure 36. Robot Hand Force Sensor Sales by Company in 2025 (K Units)
Figure 37. Global Robot Hand Force Sensor Sales Market Share by Company in 2025
Figure 38. Robot Hand Force Sensor Revenue by Company in 2025 ($ millions)
Figure 39. Global Robot Hand Force Sensor Revenue Market Share by Company in 2025
Figure 40. Global Robot Hand Force Sensor Sales Market Share by Geographic Region (2021-2026)
Figure 41. Global Robot Hand Force Sensor Revenue Market Share by Geographic Region in 2025
Figure 42. Americas Robot Hand Force Sensor Sales 2021-2026 (K Units)
Figure 43. Americas Robot Hand Force Sensor Revenue 2021-2026 ($ millions)
Figure 44. APAC Robot Hand Force Sensor Sales 2021-2026 (K Units)
Figure 45. APAC Robot Hand Force Sensor Revenue 2021-2026 ($ millions)
Figure 46. Europe Robot Hand Force Sensor Sales 2021-2026 (K Units)
Figure 47. Europe Robot Hand Force Sensor Revenue 2021-2026 ($ millions)
Figure 48. Middle East & Africa Robot Hand Force Sensor Sales 2021-2026 (K Units)
Figure 49. Middle East & Africa Robot Hand Force Sensor Revenue 2021-2026 ($ millions)
Figure 50. Americas Robot Hand Force Sensor Sales Market Share by Country in 2025
Figure 51. Americas Robot Hand Force Sensor Revenue Market Share by Country (2021-2026)
Figure 52. Americas Robot Hand Force Sensor Sales Market Share by Type (2021-2026)
Figure 53. Americas Robot Hand Force Sensor Sales Market Share by Application (2021-2026)
Figure 54. United States Robot Hand Force Sensor Revenue Growth 2021-2026 ($

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millions)
Figure 55. Canada Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 56. Mexico Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 57. Brazil Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 58. APAC Robot Hand Force Sensor Sales Market Share by Region in 2025
Figure 59. APAC Robot Hand Force Sensor Revenue Market Share by Region (2021-2026)
Figure 60. APAC Robot Hand Force Sensor Sales Market Share by Type (2021-2026)
Figure 61. APAC Robot Hand Force Sensor Sales Market Share by Application (2021-2026)
Figure 62. China Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 63. Japan Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 64. South Korea Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 65. Southeast Asia Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 66. India Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 67. Australia Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 68. China Taiwan Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 69. Europe Robot Hand Force Sensor Sales Market Share by Country in 2025
Figure 70. Europe Robot Hand Force Sensor Revenue Market Share by Country (2021-2026)
Figure 71. Europe Robot Hand Force Sensor Sales Market Share by Type (2021-2026)
Figure 72. Europe Robot Hand Force Sensor Sales Market Share by Application (2021-2026)
Figure 73. Germany Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 74. France Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 75. UK Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 76. Italy Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 77. Russia Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 78. Middle East & Africa Robot Hand Force Sensor Sales Market Share by Country (2021-2026)
Figure 79. Middle East & Africa Robot Hand Force Sensor Sales Market Share by Type (2021-2026)
Figure 80. Middle East & Africa Robot Hand Force Sensor Sales Market Share by Application (2021-2026)
Figure 81. Egypt Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 82. South Africa Robot Hand Force Sensor Revenue Growth 2021-2026 ($

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millions)
Figure 83. Israel Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 84. Turkey Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 85. GCC Countries Robot Hand Force Sensor Revenue Growth 2021-2026 ($ millions)
Figure 86. Manufacturing Cost Structure Analysis of Robot Hand Force Sensor in 2026
Figure 87. Manufacturing Process Analysis of Robot Hand Force Sensor
Figure 88. Industry Chain Structure of Robot Hand Force Sensor
Figure 89. Channels of Distribution
Figure 90. Global Robot Hand Force Sensor Sales Market Forecast by Region (2027-2032)
Figure 91. Global Robot Hand Force Sensor Revenue Market Share Forecast by Region (2027-2032)
Figure 92. Global Robot Hand Force Sensor Sales Market Share Forecast by Type (2027-2032)
Figure 93. Global Robot Hand Force Sensor Revenue Market Share Forecast by Type (2027-2032)
Figure 94. Global Robot Hand Force Sensor Sales Market Share Forecast by Application (2027-2032)
Figure 95. Global Robot Hand Force Sensor Revenue Market Share Forecast by Application (2027-2032)

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