

## **Force Sensors Market Report and Forecast 2025-2034**

Market Report | 2025-07-28 | 157 pages | EMR Inc.

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### **Report description:**

The global force sensors market stood at a value of more than USD 2367.13 Million in 2024. The market is further expected to grow at a CAGR of 4.68% in the forecast period of 2025-2034 to attain a value of above USD 3739.89 Million by 2034.

Heightened Demand for Tension Force Sensors to Bolster the Growth of the Force Sensors Industry

Based on type, tension force sensors account for a significant share in the market and is anticipated to grow at a considerable rate in the forecast period. The force sensors based on tension are specially designed for precise measurement of tensile load, weight, and force. It offers high fatigue strength, high vibration resistance, and long-term stability. In addition, the growing awareness about the ability of the tension force sensor to measure both static and dynamic load is likely to bolster its adoption in the coming years. Over the forecast period, tension force sensors are likely to witness a significant demand from the aerospace industry, as the product is ideal for extremely challenging environment.

The Asia Pacific to Provide Lucrative Growth Opportunities to the Force Sensors Industry

The rapid industrialisation, coupled with the presence of major force sensor manufacturers in the region is projected to provide impetus to the force sensor industry. Over the forecast period, the increasing demand for bulk material handling systems in emerging countries like India and China is likely to generate a significant demand for force sensors. The market is further expected to be supported by the growing need to bolster the supply chain management in the region, especially after the supply chain disruptions caused by the COVID-19 outbreak in 2020.

Force Sensor: Market Segmentation

Force sensor is a transducer that helps to convert an input mechanical force into an electrical output, which helps in measuring the amount of force applied to an object. The applied force can be calculated by observing the amount of change in the resistance values of force-resisting sensors.

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Based on type, the market is segmented into:

- Tension Force Sensors
- Compression Force Sensors
- Tension and Compression Force Sensors

The major end-use industries include:

- Healthcare
- Industrial Manufacturing
- Automotive
- Aerospace and Defence
- Consumer Electronics
- Others

The regional markets for the product include:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Increased Application of the Product in the Automotive Sector to Boost the Growth of the Force Sensors Industry

The global force sensors industry is being driven by the growing demand for the product from the automotive industry. The force sensors are extremely rigid and have a high loading capacity, compact design, and durability that makes the product ideal for automotive applications. Over the forecast period, the rising demand for automobiles in emerging economies, fuelled by the growing middle class population, is likely to propel the demand for force sensors. The market is projected to be further aided by the rising demand for various types of force sensors in industrial manufacturing applications.

#### Key Industry Players in the Global Force Sensors Market

The report gives a detailed analysis of the following key players in the global force sensors market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Alps Electric Co., Ltd.
- Synaptics Inc.
- Interlink Electronics, Inc.
- Pressure Profile Systems, Inc.
- Futek Advanced Sensor Technology, Inc.
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

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## **Table of Contents:**

- 1 Executive Summary
  - 1.1 Market Size 2024-2025
  - 1.2 Market Growth 2025(F)-2034(F)
  - 1.3 Key Demand Drivers
  - 1.4 Key Players and Competitive Structure
  - 1.5 Industry Best Practices
  - 1.6 Recent Trends and Developments
  - 1.7 Industry Outlook
- 2 Market Overview and Stakeholder Insights
  - 2.1 Market Trends
  - 2.2 Key Verticals
  - 2.3 Key Regions
  - 2.4 Supplier Power
  - 2.5 Buyer Power
  - 2.6 Key Market Opportunities and Risks
  - 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary
  - 3.1 GDP Outlook
  - 3.2 GDP Per Capita Growth
  - 3.3 Inflation Trends
  - 3.4 Democracy Index
  - 3.5 Gross Public Debt Ratios
  - 3.6 Balance of Payment (BoP) Position
  - 3.7 Population Outlook
  - 3.8 Urbanisation Trends
- 4 Country Risk Profiles
  - 4.1 Country Risk
  - 4.2 Business Climate
- 5 Global Force Sensors Market Analysis
  - 5.1 Key Industry Highlights
  - 5.2 Global Force Sensors Historical Market (2018-2024)
  - 5.3 Global Force Sensors Market Forecast (2025-2034)
  - 5.4 Global Force Sensors Market by Type
    - 5.4.1 Tension Force Sensors
      - 5.4.1.1 Market Share
      - 5.4.1.2 Historical Trend (2018-2024)
      - 5.4.1.3 Forecast Trend (2025-2034)
    - 5.4.2 Compression Force Sensors
      - 5.4.2.1 Market Share
      - 5.4.2.2 Historical Trend (2018-2024)
      - 5.4.2.3 Forecast Trend (2025-2034)
    - 5.4.3 Tension and Compression Force Sensors
      - 5.4.3.1 Market Share

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- 5.4.3.2 Historical Trend (2018-2024)
- 5.4.3.3 Forecast Trend (2025-2034)
- 5.5 Global Force Sensors Market by End-user Industry
  - 5.5.1 Healthcare
    - 5.5.1.1 Market Share
    - 5.5.1.2 Historical Trend (2018-2024)
    - 5.5.1.3 Forecast Trend (2025-2034)
  - 5.5.2 Industrial Manufacturing
    - 5.5.2.1 Market Share
    - 5.5.2.2 Historical Trend (2018-2024)
    - 5.5.2.3 Forecast Trend (2025-2034)
  - 5.5.3 Automotive
    - 5.5.3.1 Market Share
    - 5.5.3.2 Historical Trend (2018-2024)
    - 5.5.3.3 Forecast Trend (2025-2034)
  - 5.5.4 Aerospace and Defence
    - 5.5.4.1 Market Share
    - 5.5.4.2 Historical Trend (2018-2024)
    - 5.5.4.3 Forecast Trend (2025-2034)
  - 5.5.5 Consumer Electronics
    - 5.5.5.1 Market Share
    - 5.5.5.2 Historical Trend (2018-2024)
    - 5.5.5.3 Forecast Trend (2025-2034)
  - 5.5.6 Others
- 5.6 Global Force Sensors Market by Region
  - 5.6.1 North America
    - 5.6.1.1 Market Share
    - 5.6.1.2 Historical Trend (2018-2024)
    - 5.6.1.3 Forecast Trend (2025-2034)
  - 5.6.2 Europe
    - 5.6.2.1 Market Share
    - 5.6.2.2 Historical Trend (2018-2024)
    - 5.6.2.3 Forecast Trend (2025-2034)
  - 5.6.3 Asia Pacific
    - 5.6.3.1 Market Share
    - 5.6.3.2 Historical Trend (2018-2024)
    - 5.6.3.3 Forecast Trend (2025-2034)
  - 5.6.4 Latin America
    - 5.6.4.1 Market Share
    - 5.6.4.2 Historical Trend (2018-2024)
    - 5.6.4.3 Forecast Trend (2025-2034)
  - 5.6.5 Middle East and Africa
    - 5.6.5.1 Market Share
    - 5.6.5.2 Historical Trend (2018-2024)
    - 5.6.5.3 Forecast Trend (2025-2034)
- 6 North America Force Sensors Market Analysis
  - 6.1 United States of America

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- 6.1.1 Market Share
- 6.1.2 Historical Trend (2018-2024)
- 6.1.3 Forecast Trend (2025-2034)
- 6.2 Canada
  - 6.2.1 Market Share
  - 6.2.2 Historical Trend (2018-2024)
  - 6.2.3 Forecast Trend (2025-2034)
- 7 Europe Force Sensors Market Analysis
  - 7.1 United Kingdom
    - 7.1.1 Market Share
    - 7.1.2 Historical Trend (2018-2024)
    - 7.1.3 Forecast Trend (2025-2034)
  - 7.2 Germany
    - 7.2.1 Market Share
    - 7.2.2 Historical Trend (2018-2024)
    - 7.2.3 Forecast Trend (2025-2034)
  - 7.3 France
    - 7.3.1 Market Share
    - 7.3.2 Historical Trend (2018-2024)
    - 7.3.3 Forecast Trend (2025-2034)
  - 7.4 Italy
    - 7.4.1 Market Share
    - 7.4.2 Historical Trend (2018-2024)
    - 7.4.3 Forecast Trend (2025-2034)
  - 7.5 Others
- 8 Asia Pacific Force Sensors Market Analysis
  - 8.1 China
    - 8.1.1 Market Share
    - 8.1.2 Historical Trend (2018-2024)
    - 8.1.3 Forecast Trend (2025-2034)
  - 8.2 Japan
    - 8.2.1 Market Share
    - 8.2.2 Historical Trend (2018-2024)
    - 8.2.3 Forecast Trend (2025-2034)
  - 8.3 India
    - 8.3.1 Market Share
    - 8.3.2 Historical Trend (2018-2024)
    - 8.3.3 Forecast Trend (2025-2034)
  - 8.4 ASEAN
    - 8.4.1 Market Share
    - 8.4.2 Historical Trend (2018-2024)
    - 8.4.3 Forecast Trend (2025-2034)
  - 8.5 Australia
    - 8.5.1 Market Share
    - 8.5.2 Historical Trend (2018-2024)
    - 8.5.3 Forecast Trend (2025-2034)
  - 8.6 Others

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- 9 Latin America Force Sensors Market Analysis
  - 9.1 Brazil
    - 9.1.1 Market Share
    - 9.1.2 Historical Trend (2018-2024)
    - 9.1.3 Forecast Trend (2025-2034)
  - 9.2 Argentina
    - 9.2.1 Market Share
    - 9.2.2 Historical Trend (2018-2024)
    - 9.2.3 Forecast Trend (2025-2034)
  - 9.3 Mexico
    - 9.3.1 Market Share
    - 9.3.2 Historical Trend (2018-2024)
    - 9.3.3 Forecast Trend (2025-2034)
  - 9.4 Others
- 10 Middle East and Africa Force Sensors Market Analysis
  - 10.1 Saudi Arabia
    - 10.1.1 Market Share
    - 10.1.2 Historical Trend (2018-2024)
    - 10.1.3 Forecast Trend (2025-2034)
  - 10.2 United Arab Emirates
    - 10.2.1 Market Share
    - 10.2.2 Historical Trend (2018-2024)
    - 10.2.3 Forecast Trend (2025-2034)
  - 10.3 Nigeria
    - 10.3.1 Market Share
    - 10.3.2 Historical Trend (2018-2024)
    - 10.3.3 Forecast Trend (2025-2034)
  - 10.4 South Africa
    - 10.4.1 Market Share
    - 10.4.2 Historical Trend (2018-2024)
    - 10.4.3 Forecast Trend (2025-2034)
  - 10.5 Others
- 11 Market Dynamics
  - 11.1 SWOT Analysis
    - 11.1.1 Strengths
    - 11.1.2 Weaknesses
    - 11.1.3 Opportunities
    - 11.1.4 Threats
  - 11.2 Porter's Five Forces Analysis
    - 11.2.1 Supplier's Power
    - 11.2.2 Buyer's Power
    - 11.2.3 Threat of New Entrants
    - 11.2.4 Degree of Rivalry
    - 11.2.5 Threat of Substitutes
  - 11.3 Key Indicators for Demand
  - 11.4 Key Indicators for Price
- 12 Value Chain Analysis

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- 13 Price Analysis
  - 13.1 North America Historical Price Trends (2018-2024) and Forecast (2025-2034)
  - 13.2 Europe Historical Price Trends (2018-2024) and Forecast (2025-2034)
  - 13.3 Asia Pacific Historical Price Trends (2018-2024) and Forecast (2025-2034)
  - 13.4 Latin America Historical Price Trends (2018-2024) and Forecast (2025-2034)
  - 13.5 Middle East and Africa Historical Price Trends (2018-2024) and Forecast (2025-2034)
- 14 Competitive Landscape
  - 14.1 Supplier Selection
  - 14.2 Key Global Players
  - 14.3 Key Regional Players
  - 14.4 Key Player Strategies
  - 14.5 Company Profiles
    - 14.5.1 Alps Electric Co., Ltd.
      - 14.5.1.1 Company Overview
      - 14.5.1.2 Product Portfolio
      - 14.5.1.3 Demographic Reach and Achievements
      - 14.5.1.4 Certifications
    - 14.5.2 Synaptics Inc.
      - 14.5.2.1 Company Overview
      - 14.5.2.2 Product Portfolio
      - 14.5.2.3 Demographic Reach and Achievements
      - 14.5.2.4 Certifications
    - 14.5.3 Interlink Electronics, Inc.
      - 14.5.3.1 Company Overview
      - 14.5.3.2 Product Portfolio
      - 14.5.3.3 Demographic Reach and Achievements
      - 14.5.3.4 Certifications
    - 14.5.4 Pressure Profile Systems, Inc.
      - 14.5.4.1 Company Overview
      - 14.5.4.2 Product Portfolio
      - 14.5.4.3 Demographic Reach and Achievements
      - 14.5.4.4 Certifications
    - 14.5.5 Futek Advanced Sensor Technology, Inc.
      - 14.5.5.1 Company Overview
      - 14.5.5.2 Product Portfolio
      - 14.5.5.3 Demographic Reach and Achievements
      - 14.5.5.4 Certifications
    - 14.5.6 Others

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