

Global Textile Strain Sensors Market Growth 2026-2032

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Abstracts

The global Textile Strain Sensors market size is predicted to grow from US\$ 866 million in 2025 to US\$ 2564 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

Textile strain sensors are smart sensors integrated into textile materials that detect strain by measuring changes in electrical parameters such as resistance, capacitance, or inductance. They monitor mechanical deformations of fabrics including stretching, bending, and compression, and are widely used in wearable devices, health monitoring, sports tracking, soft robotics, and human-machine interaction. In 2025, global textile strain sensor production reached approximately 5.9 million units, with an average global market price of around US\$150 per unit. Annual production capacity is 6.3 million units. Gross Profit Margin: 35%. The textile strain sensor industry chain is composed of upstream materials, midstream manufacturing, and downstream applications. Upstream includes conductive fibers (silver, copper, carbon-based), conductive polymers, and composite yarns, which determine sensor performance and cost. Midstream involves sensor integration into fabrics via knitting, weaving, coating, or embroidery techniques, and production of finished modules. Downstream covers wearable electronics, health monitoring garments, sports tracking devices, and soft robotics, where these sensors enable real-time motion and physiological data collection. Strong collaboration across all tiers is essential to optimize performance, durability, and scalability. Textile strain sensors represent a transformative niche in wearable electronics. With flexible, lightweight, and fabric-compatible designs, they allow seamless integration into daily life, from smart clothing to medical rehabilitation devices. The market growth is promising, but manufacturers must address challenges like washability, signal stability, and standardization. Investing in innovative materials, modular designs, and hybrid sensing methods will likely define the next generation of

textile sensors and open opportunities for global adoption.

United States market for Textile Strain Sensors 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 Textile Strain Sensors 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 Textile Strain Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Textile Strain Sensors players cover Texensor, Sensoria Inc., Textronics Inc., Wave Company, Ohmatex ApS, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Textile Strain Sensors and breaks down the forecast by Sensing Mechanism, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Textile Strain Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Textile Strain Sensors market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Sensing Mechanism:

Resistive

Capacitive

Optical

Inductive

Piezoresistive / Thermal

Segmentation by Material Type:

Carbon-based

Conductive Polymer

Metal Fiber

Conductive Coating

Composite Fiber

Segmentation by Performance Level:

Low Sensitivity Sensors?Gauge Factor

Medium Sensitivity Sensors?Gauge Factor 10?50?

High Sensitivity Sensors?Gauge Factor > 50?

Others

Segmentation by Application:

Consumer

Clinical

Rehabilitation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Texensor

Sensoria Inc.

Textronics Inc.

Wave Company

Ohmatex ApS

AiQ Smart Clothing Inc.

Fibersensing

Sensitronics LLC

Interlink Electronics

Tekscan

Vancera Technology

Aisiyi (Xiamen) Technology

Nanjing Shiheng Electronics

Anhui Zhimin Electrical Technology

Suzhou Nanomicro Technology

Shenzhen Innovand Systems

Key Questions Addressed in this Report

What is the 10-year outlook for the global Textile Strain Sensors market?

What factors are driving Textile Strain Sensors market growth, globally and by region?

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

How do Textile Strain Sensors market opportunities vary by end market size?

How does Textile Strain Sensors break out by Sensing Mechanism, by Application?

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