

Global Flexible Fabric Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Flexible Fabric Sensors market size was valued at US\$ 124 million in 2025 and is forecast to a readjusted size of US\$ 339 million by 2032 with a CAGR of 15.4% during review period.

Flexible fabric sensors are novel sensing elements that use textile fibers or fabrics as a substrate, integrating conductive materials and sensitive units to transform traditional fabrics into 'smart fabrics' with sensing capabilities. Conductive materials, conductive inks, sensing yarns, or flexible circuits are embedded into the fabric substrate or surface, enabling the fabric itself to detect and respond to physical inputs such as pressure, touch, temperature, humidity, liquid, and deformation, converting these into collectable electrical signals. Applications of flexible fabric sensors span multiple fields, including healthcare, smart cars, human-computer interaction, and military supplies. In medical settings, they are used in foot pressure analysis pads, gait monitoring insoles, smart mattresses, and pressure ulcer early warning systems, supporting non-intrusive health monitoring. In automotive cabins, fabric sensors can be embedded in seats to achieve real-time control of occupant body pressure distribution, improving comfort and safety. In humanoid robots and embodied intelligence, flexible tactile sensors cover fingertip tactile skin and large-area electronic skin across the entire palm, supporting multi-dimensional perception such as touch, pressure, slippage, and texture. With a gross profit margin of approximately 40%.

Infi-Tex's core process involves directly printing proprietary conductive inks onto fabrics; FRTI achieves electronic functionality on textile surfaces through material combinations and specially developed production technologies; Shanghai Yotlive Technology showcases a vertically integrated path from spinning and weaving to design and

manufacturing; and Guangzhou PhlexSense further integrates materials, design, manufacturing, packaging, testing, and applications into its entire supply chain capabilities. Loomia targets automotive interiors, medical devices, and wearables; Yotlive Technology provides solutions for smart seats, flexible smart surfaces, nursing mattresses, foot pressure pads, and smart insoles; Shenzhen ModuTech places flexible fabric sensors in smart seats, mattresses, insoles, and robotic tactile applications; and Knitronix pushes large-area, breathable, and mechanically fatigue-resistant sensing fabrics into pressure, temperature, humidity, and liquid monitoring applications.

This report is a detailed and comprehensive analysis for global Flexible Fabric Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Flexible Fabric Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flexible Fabric Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flexible Fabric Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Flexible Fabric Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Flexible Fabric Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Flexible Fabric Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Loomia, Infi-Tex, Forster Inter-Spitzen (FRTI), Knitronix, Suzhou Leanstar Electronics Technology, Shanghai Yotlive Technology, Shenzhen ModuTech, Shenzhen SMITSense, Guangzhou PhlexSense, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Flexible Fabric Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Capacitive Type

Piezoresistive Type

Piezoelectric Type

Triboelectric Type

Market segment by Base Material

Natural Fiber Base

Synthetic Fiber Base

Market segment by Sensitivity

Below 10 kPa??

10-100 kPa??

Above 100 kPa??

Market segment by Application

Robotics

Smart Wearables

Healthcare

Automotive Systems

Others

Major players covered

Loomia

Infi-Tex

Forster Inter-Spitzen (FRTI)

Knitronix

Suzhou Leanstar Electronics Technology

Shanghai Yotlive Technology

Shenzhen ModuTech

Shenzhen SMiTSense

Guangzhou PhlexSense

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Flexible Fabric Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flexible Fabric Sensors, with price, sales quantity, revenue, and global market share of Flexible Fabric Sensors from 2021 to 2026.

Chapter 3, the Flexible Fabric Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flexible Fabric Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Flexible Fabric Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Flexible Fabric Sensors.

Chapter 14 and 15, to describe Flexible Fabric Sensors sales channel, distributors, customers, research findings and conclusion.

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