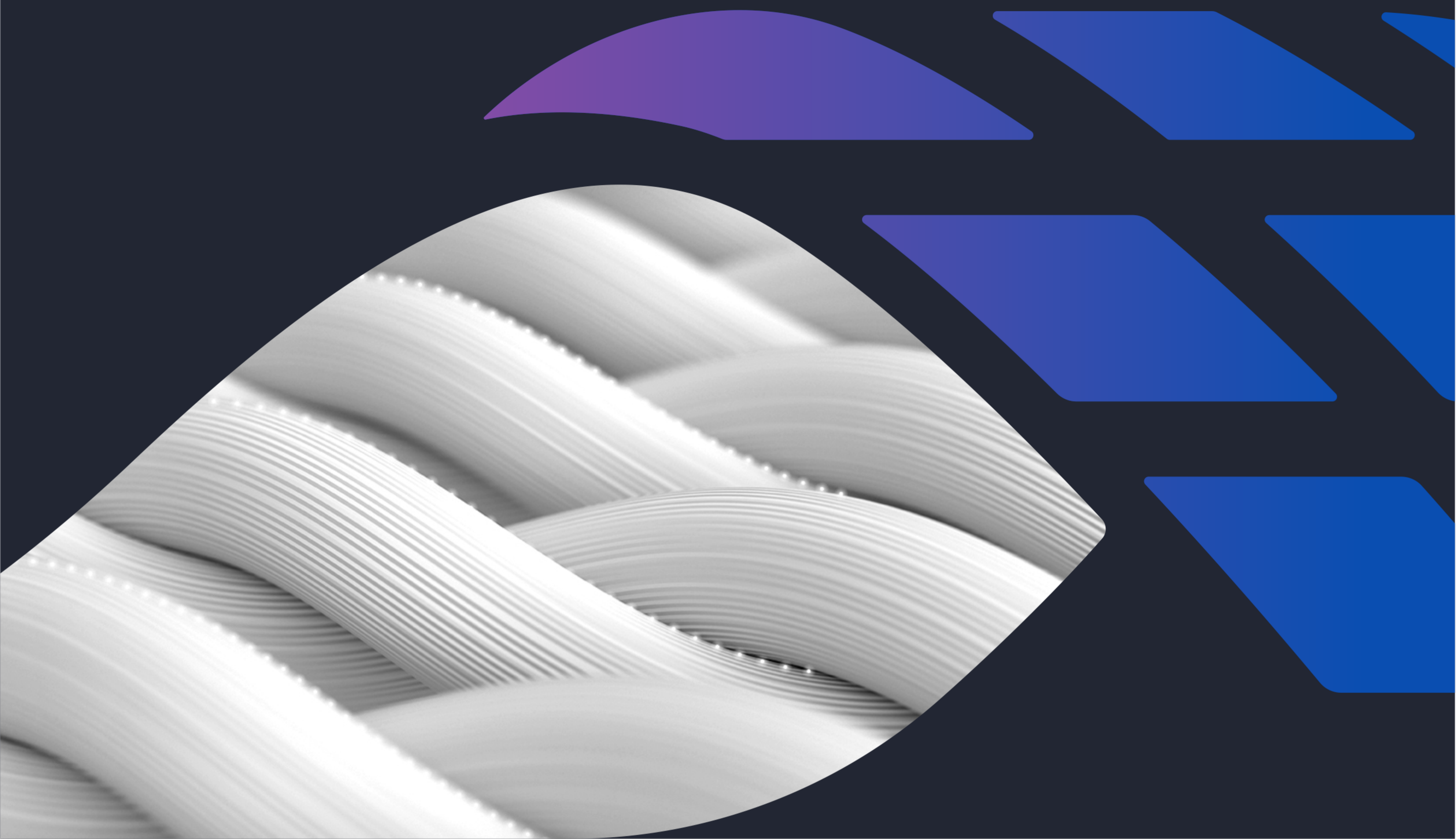




Sense. Adapt. Transform.

Textile Sensing Solutions,
Engineered for Your Next-Gen Innovations.

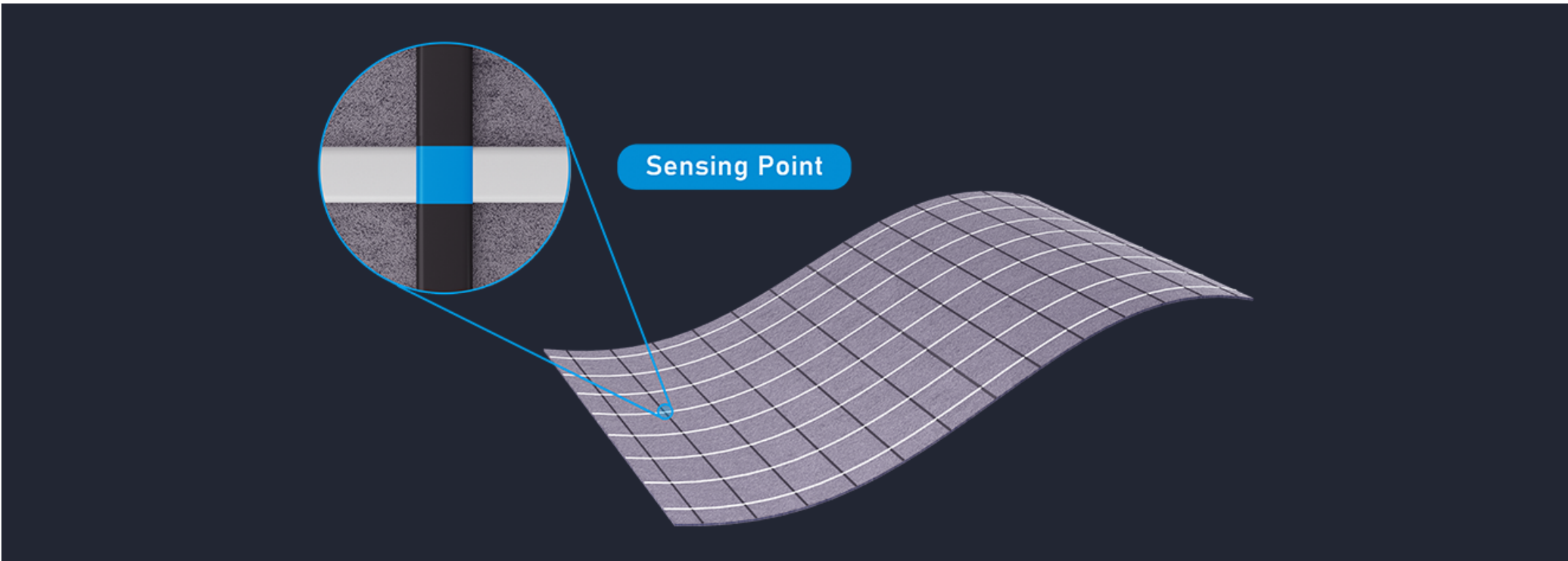


CORE TECHNOLOGY

Texensor transforms everyday fabrics into adaptive, multifunctional sensing platforms—delivering precise pressure measurements, high-fidelity visualization, and intelligent data insights. We power next-gen, fully customized solutions for leading enterprises across industrial automotive, smart home, healthcare, robotics, and beyond.

Textile Sensor

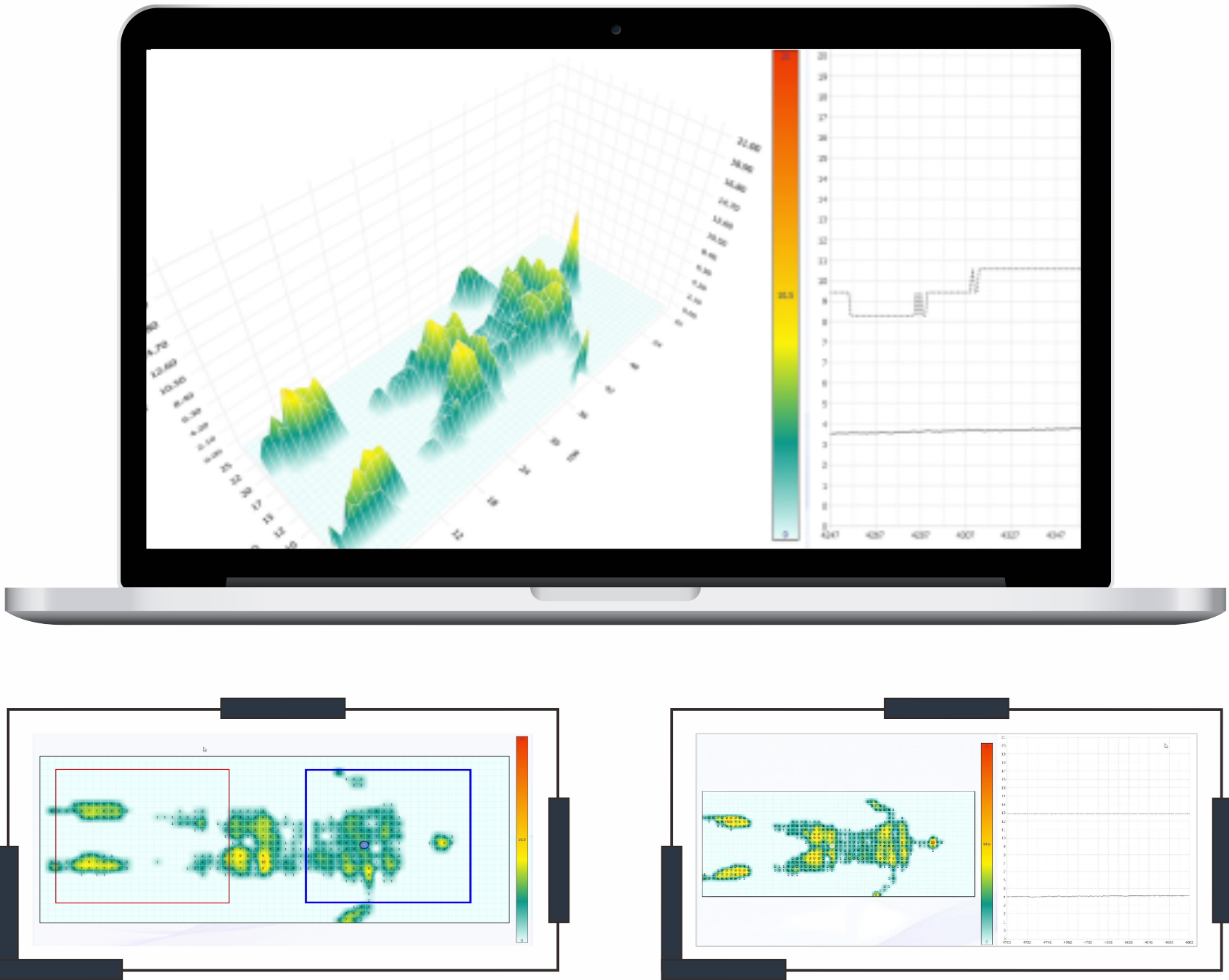
Texensor's textile pressure sensors provide industry-leading surface measurement through a proprietary sandwich-structure, piezoresistive architecture. At the core of the system, crossed conductive fabric layers form a high-density pressure grid—each intersection acting as an independent sensing node.



 Omnidirectional Flexibility	 Highly Breathable	 Impact-Resistant & Durable	 Wide Temp Range (-40°C to 90°C)
 Rigid/Flexible Surface Compatible	 Imperceptible Wear	 Elastic/Non-Elastic Options	 High Measurement Accuracy

Software

Texensor's versatile AI-driven software delivers lab-grade data through advanced algorithms, seamlessly connecting sensors and devices for real-time control, commands, and signaling. It provides high-quality visualization and export-ready outputs to support clinical use, product development, human performance analysis, and customized applications.



High-Fidelity 2D/3D
Visualization



Dedicated User-Friendly
Software



AI-Enhanced
Efficiency Tools



Real-Time Advanced
Data Processing



Structured Data for
Seamless Integration

INDUSTRY SOLUTIONS

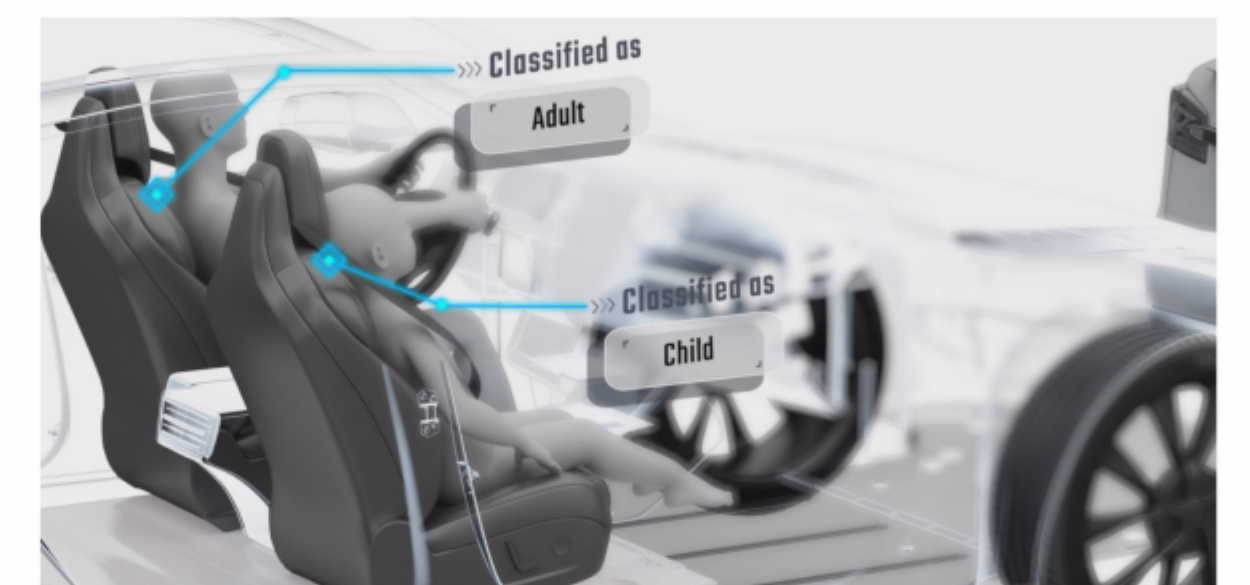
Automotive: Adaptive Drives, Safer Journeys

Unlock advanced safety features and personalized comfort through real-time occupant detection and classification.

Application Scenarios

- **Safety Throughout Impact: Texensor Occupant Classification for Airbag Control**

Using capacitive sensing, it detects passenger presence, distinguishes between adults and children or infant seats, and communicates corresponding signals to the ECU for intelligent airbag control.



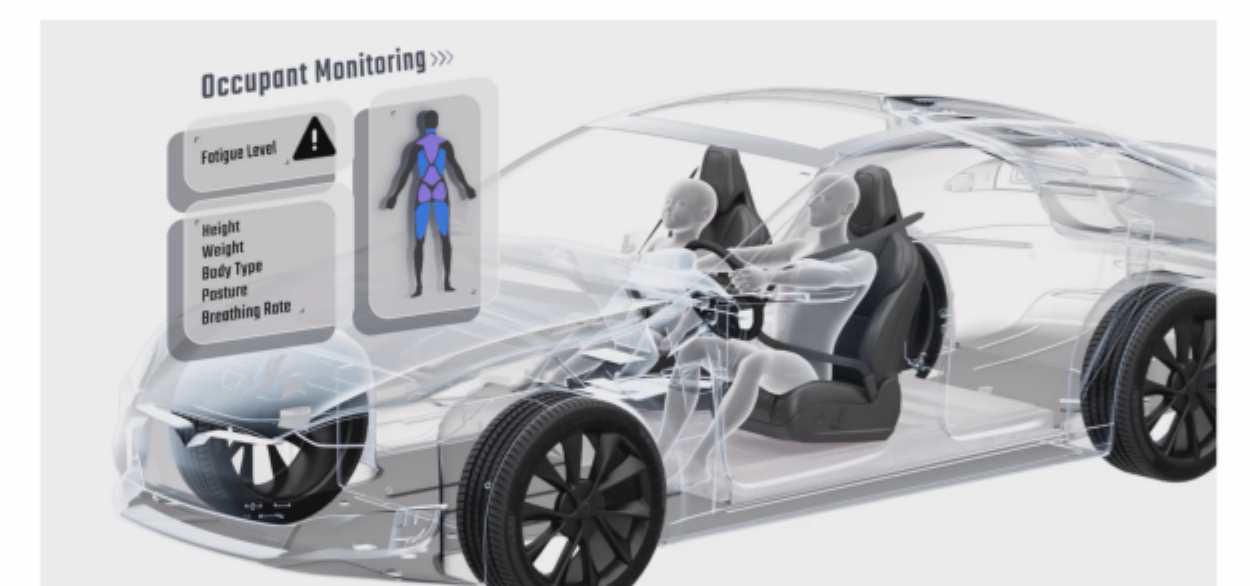
- **Personalized Support in Motion: Texensor Intelligent Seating for Upgraded Comforts**

By combining a high-density sensor array with multi-zone airbag systems, it enables real-time pressure mapping and posture analysis to automatically adjust support for adaptive comfort, while delivering precise measurements and actionable insights for reliable, repeatable design validation.



- **Prevent Fatigue Before It Strikes: Texensor Fatigue Detection for Safer Journeys**

Through continuously monitoring driver posture, micro-movements, and vital signs, it detects early signs of drowsiness and delivers timely alerts, while automatically initiating countermeasures—such as seat adjustments or break recommendations—to restore alertness and enhance driving safety.



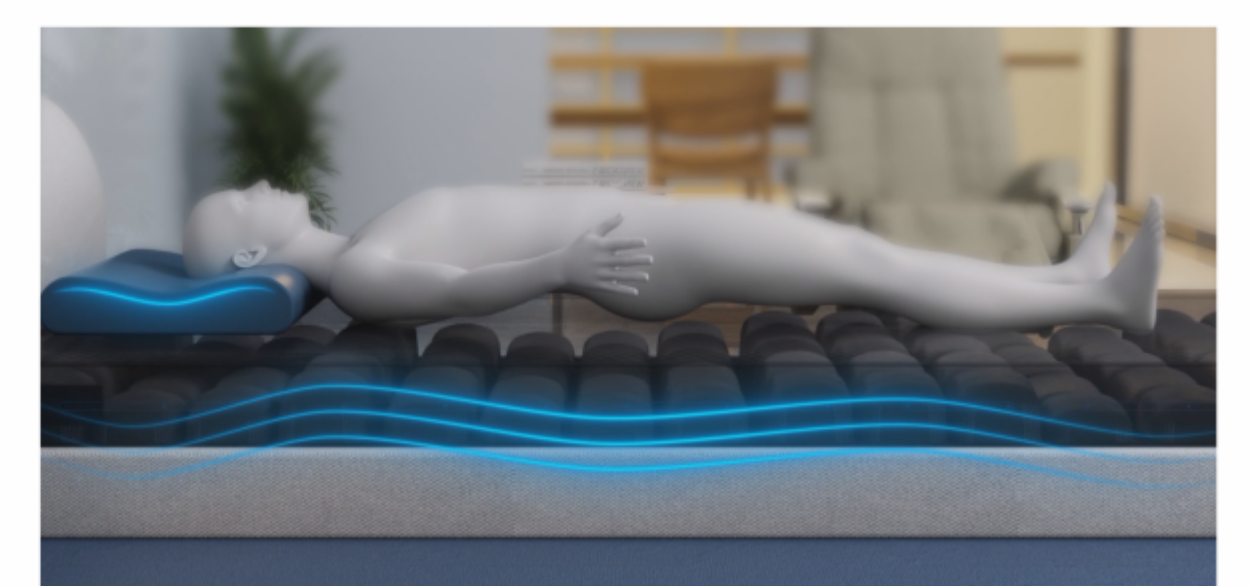
Home and Furniture: The Comfort-First Revolution for Smart Living

Optimize product design and empower adaptive smart capabilities to elevate customer satisfaction and accelerate sales growth.

Application Scenarios

- **Deep Sleep, Smart Recovery: Texensor Intelligent Sleep**

By integrating high-density sensor arrays, multi-zone airbag systems, and motorized frames, it delivers real-time pressure mapping and posture analysis to create adaptive, personalized comfort and a health-focused sleep experience—while enabling precise, repeatable performance quantification for product design and validation.



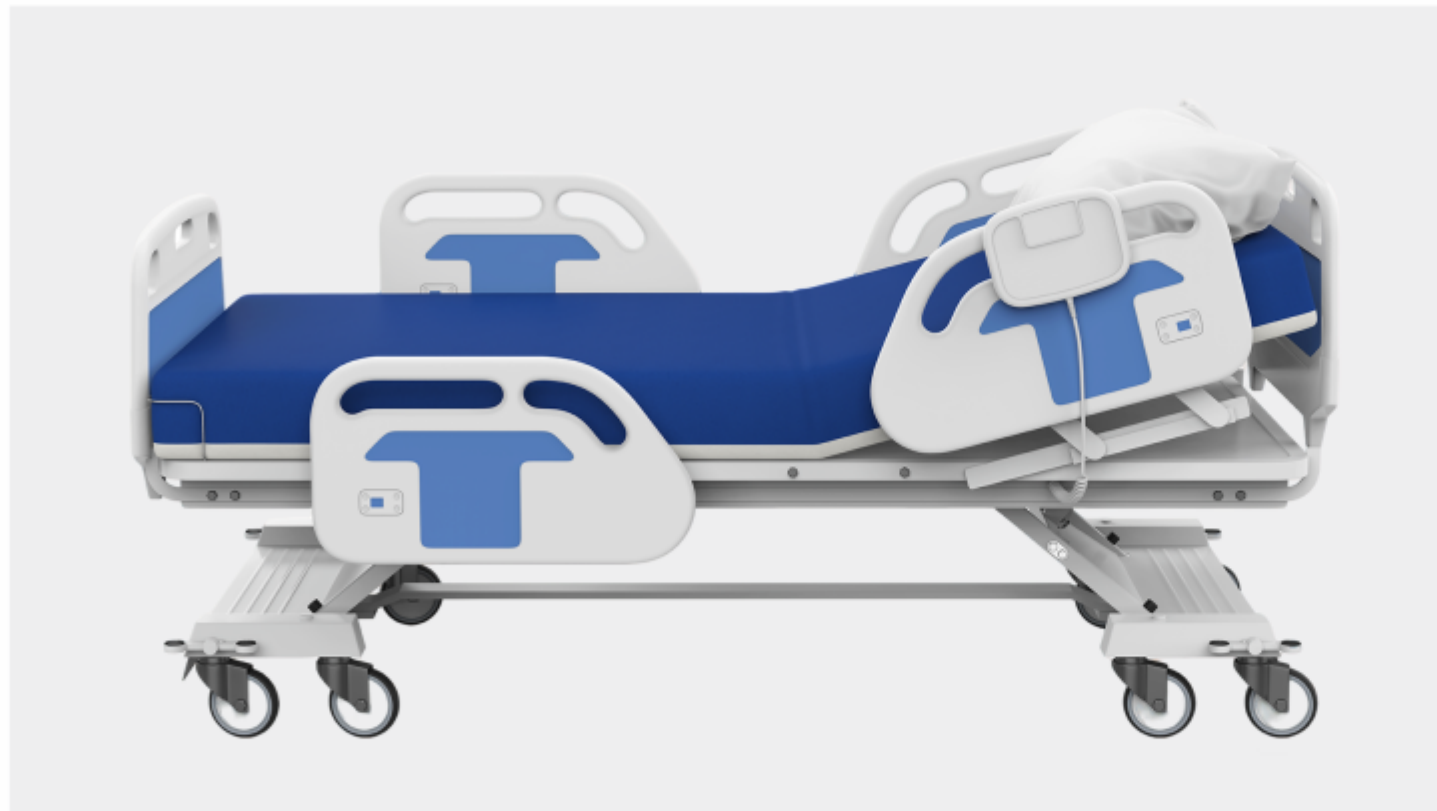
- **Dynamic Support, Sustained Vitality: Texensor Smart Seating**

Through the integration of a high-density sensor array, multi-zone airbag systems, and motorized frames, it enables real-time pressure mapping, adaptive comfort adjustment, and automated ergonomic positioning—while delivering precise, repeatable performance data for occupancy detection, durability, and comfort validation.



Healthcare: The Human-Centric Approach to Care

Enhance patient well-being and reduce staff workload through real-time monitoring of critical physiological parameters.



Application Scenarios

- **Continuous Skin Monitoring & Care: Texensor Patient Bed Monitoring**

It proactively monitors pressure injury risk, whether used as a standalone mattress or as an integrable overlay, identifying at-risk patients and pinpointing problem areas through visual mapping and alerts. It also helps optimize pressure redistribution and microclimate moisture management, while supporting prevention verification and protocol compliance through aggregate reporting for coordinated, data-driven care.

- **Data-Driven Footwear Technology: Texensor Intelligent Insoles**

By capturing and visualizing real-time plantar pressure and gait data, it generates dynamic pressure maps for in-depth movement analysis, injury prevention, and rehabilitation. Combined with intelligent stride analysis and automated outcome comparison, it enables performance optimization, therapeutic recovery, and comprehensive injury management for both patients and athletes.

Robotics: A Responsive, AI-Powered Era of Robotics

Deliver precision, safety, and enhanced environmental awareness through intelligent sensing for robotic grippers and embodied robots.



Application Scenarios

- **Beyond Basic Touch: Texensor Multimodal Robotic Skin**

With an integrated multimodal sensing layer, Texensor extends from glove-level sensing to full-body coverage, capturing tactile, pressure, and micro-vibration signals through advanced textile sensor matrices and converting them via real-time sensor fusion into a unified perception model for precise, adaptive robotic interaction in unstructured settings.

- **Beyond Rigid Grasp: Texensor Dexterous Robotic Grippers**

By leveraging high-density textile sensor arrays with millinewton-level force and slip detection, it delivers real-time force vectors and contact-state data, enabling adaptive control algorithms to ensure reliable, damage-free handling of delicate, complex components.

ABOUT US

Sense. Adapt. Transform.

This principle guides our work. We believe meaningful innovation **senses** human needs, **adapts** to real-world challenges, and **transforms** how people live and interact with technology. For decades, we've focused on advancing textile sensing—transforming our expertise across automotive, smart home, healthcare, and robotic applications into solutions that enable smarter products and better user experiences.

Our mission is to deliver the reliable, high-performance sensing foundation our partners depend on. With end-to-end control—from sensor design to manufacturing—we ensure the quality, consistency, and scalability required for next-generation innovation.

Discover what sets us apart:



100+ Cross-Industry Projects

Deliver custom-engineered solutions backed by proven, real-world expertise.



2,000+ sqm Overseas Self-Owned Factory

Guarantee quality control and agile production through full vertical integration.



10 Years of Focused R&D

Drive sensing innovation with a team where 40% are dedicated engineers.



Accredited In-House Labs

Ensure performance, reliability, and durability with rigorous testing workflows.



Full-Cycle Technical Partnership

Support your product from initial design to seamless integration and long-term deployment.



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