

As the smart home evolves beyond rigid electronics and touch panels, Texensor is pioneering the shift to soft, intuitive, and responsive interfaces. By embedding sensing intelligence directly into textiles, our solutions transform everyday fabrics into seamless gateways for smart ecosystems. This enables next-generation applications that elevate comfort, unlock new business models, and deliver measurable sales growth for our partners.



Application Scenarios

Deep Sleep, Smart Recovery: Texensor Intelligent Sleep

◆ For Users: Static Discomfort.

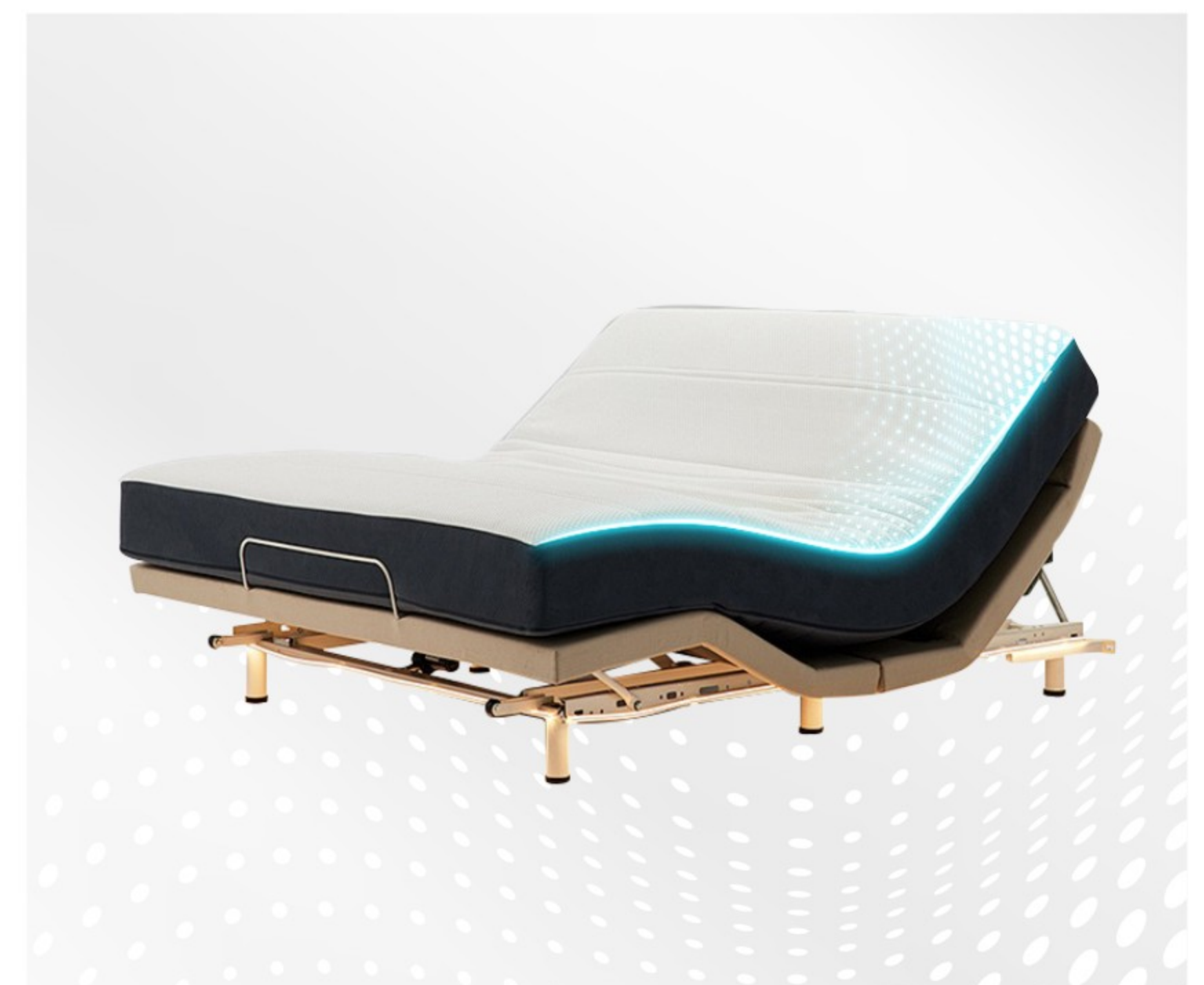
Traditional mattresses and pillows fail to adapt to body shifts, pressure points, or changing sleep cycles. Instead of promoting rest, night-long stillness often leads to restless sleep, back pain, and morning stiffness.

◆ For Makers: Data-Blind Design.

Without real-time pressure and posture insights, product development relies on assumptions and trial-and-error prototyping. This lack of data visibility prolongs R&D cycles, increases cost, and limits innovation in smart sleep solutions.

How it works:

- Fusing a high-density sensor array with multi-zone airbags, it performs real-time pressure mapping and posture analysis—continuously optimizing firmness for adaptive, personalized comfort.
- Compatible with motorized frames, it enables automated angle adjustments, delivering a health-focused experience that transcends static designs.
- Through precise pressure measurement and intelligent visualization, it allows designers to reliably quantify sleep product performance with exceptional repeatability—from in-/out-of-bed detection to durability and comfort testing.



Dynamic Support, Sustained Vitality: Texensor Smart Seating



◆ For Users: Static Discomfort.

Conventional seats fail to adapt to posture changes, pressure buildup, or growing fatigue. Instead of supporting well-being, prolonged sitting for work or leisure often results in discomfort, strain, and poor circulation.

◆ For Makers: Data-Blind Design.

Without real-time pressure data, seat development relies on assumptions and repeated prototyping. This data-blind approach extends R&D cycles, increases costs, and stifles differentiation, ultimately constraining innovation in next-gen smart seating.

How it works:

- Fusing a high-density sensor array with multi-zone airbags, it performs real-time pressure mapping and posture analysis—continuously optimizing firmness for adaptive, personalized comfort.
- Compatible with motorized frames, it enables automated angle adjustments, delivering a health-focused experience that transcends static designs.
- Through precise pressure measurement and intelligent visualization, it allows designers to reliably quantify seat performance with exceptional repeatability—from from occupancy to durability and comfort.

Choose Texensor with Confidence



Proven Strength & Longevity

Built with industrial-grade materials and rigorously stress-tested for reliable performance in demanding environments.



Ultra-Thin, Highly Flexible Form

Conforms to complex and curved surfaces while maintaining durability and precision.



True Plug-and-Play Deployment

No calibration required during assembly, reducing installation time and complexity.



Invisible Surface Integration

Embeds seamlessly within product surfaces for a clean, integrated aesthetic and user experience.



Easy Function Expansion

Compatible with add-on functions like heating/cooling through a simple modular layer and electrical interface.



Fully Customizable Design

Engineered to match exact specifications, enabling bespoke configurations aligned with product direction and requirements.

About Texensor

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 automotive, smart homes, healthcare, robotics, and beyond.



100+ Cross-Industry Projects

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



2,000+ sqm In-House 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.

