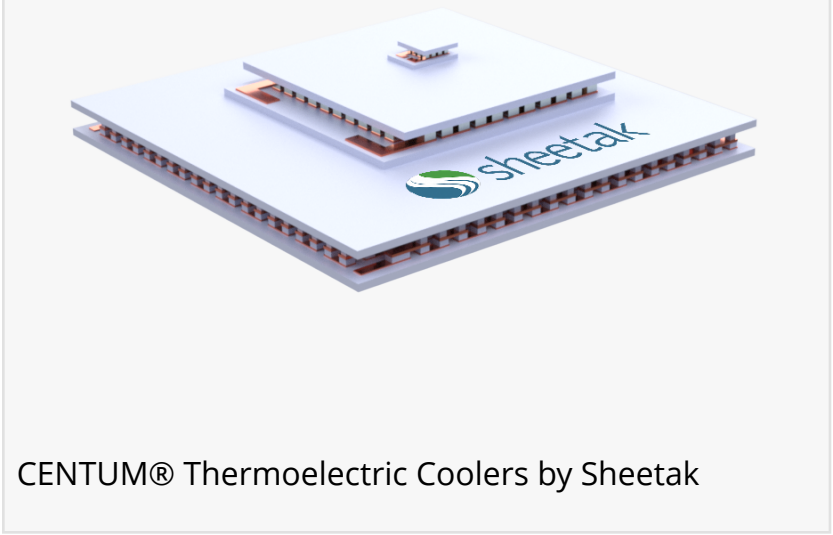
Sheetak Strengthens U.S. Thermoelectric Manufacturing with Custom Solutions and Rapid Prototyping

Custom thermoelectric devices, faster prototypes, and reliable U.S. manufacturing for critical industries.



CENTUM® Thermoelectric Coolers by Sheetak

AUSTIN, TX, UNITED STATES, September 3, 2025 /EINPresswire.com/ -- Sheetak Inc., a U.S.-based leader in advanced thermoelectrics, is redefining solid-state cooling and energy management with fully customizable devices and rapid prototyping through its expanded U.S. manufacturing capabilities. Headquartered in Austin, Texas, Sheetak combines deep engineering expertise, patented architectures, and American manufacturing to deliver application-specific solutions in as little as 3 to 6 weeks. This accelerated timeline gives engineers a reliable alternative to overseas sourcing, avoiding the delays and risks created by tariffs, geopolitical issues, and unstable supply chains.

Engineers in aerospace, photonics, medical devices, and computing require thermal solutions that match exact performance needs. For many corporations, thermoelectric components make up only a small part of their supplier portfolios, often limiting engineering support and slowing development. These challenges are compounded by volatile global supply chains that extend prototyping lead times well beyond 20 weeks, reducing competitiveness and system performance.

Sheetak's singular focus on thermoelectric science and devices allows the company to dedicate its full expertise to advancing solid-state cooling technology. Its Austin headquarters functions as a central hub for design, engineering, customer collaboration and in-house manufacturing. This integrated model produces prototypes and application-specific devices in weeks rather than months, significantly reducing the industry's standard development cycle.

The foundation of this advantage is Sheetak's patented device architecture, exemplified by the CENTUM® product line. These thermoelectric modules, also known as TECs or Peltier coolers, can generate up to 1.2 times the temperature differential and twice the cooling density of competing devices in the same footprint. This enables engineers to achieve lower temperatures or dissipate more heat while maintaining compatibility with existing system designs.

Sheetak Advanced Thermoelectrics

"Our role is to act as an extension of our customers' engineering teams," said Tejas Vakil, CEO of Sheetak. "By designing and manufacturing in the United States, we eliminate long waits and deliver technology tailored to each application. This collaboration gives our partners a reliable path to higher performance and faster market entry."

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>
> *Tejas Vakil, CEO*

Sheetak's commercial strength is grounded in its extensive intellectual property and active research pipeline. With a portfolio of approximately 30 patents and ongoing work in next-generation thermoelectric technology, Sheetak combines foundational science with responsive U.S. manufacturing. This blend of research depth and local production provides customers with a durable technological edge.

For more information on Sheetak's application-specific solutions or to discuss a project, visit www.sheetak.com or contact the engineering team directly at info@sheetak.com.

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About Sheetak

Based in Austin, Texas, Sheetak develops advanced thermoelectric, solid-state cooling, and energy harvesting technologies for high-performance electronics. With expertise in thermoelectric materials, device engineering, and U.S.-based manufacturing, Sheetak provides precision thermal management solutions for applications in photonics, telecommunications, aerospace, defense, computing, and medical systems. By supporting shorter development cycles and faster lead times, Sheetak helps customers bring products to market with greater efficiency.

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