

High Performance Top Seal Heaters & Assemblies

www.nexthermal.com

Improve seal quality and maximize throughput with engineered top seal heating solutions.



Increase Sealing Speed with Nexthermal Engineered Top Seal Heater Assembly.



Faster Thermal Recovery Improves Speed and Seal Quality

In many cases, your top sealer mechanical equipment can run faster than your current heater will allow. Nexthermal top sealer assemblies utilize a coil heater that can be formed into a groove—putting the heat where you need it. The heater is compact, so the sealing face or sealing tool can have less

thermal mass and recover quickly. Integrating machined insulation isolates the sealer from heat sinks and reduces heat loss. The result is faster, more uniform heat recovery, optimized throughput speed and a quality seal.

Heater Robustness

Nexthermal coil heaters can be sealed for high moisture resistance, improving heater life and greatly reducing the possibility of heater failure at startup. Our coil heater products operate in some processes at over 600°C (1112°F), so it is highly capable of functioning at the temperature you need to reach to seal your material. We design our groove to precisely fit our pressed-in coil heater for excellent heat transfer, precision of heat profile, and a longer heater life.

Convenient Turnkey Solutions.

Nexthermal has engineered a thermally profiled top sealing system that can be tailored to your process. You benefit from our extensive R&D and thermal analysis with an optimized top seal system that we can modify to fit your equipment. Nexthermal can respond fast to your requirements with a proven design customized to improve your process efficiency.



Nexthermal sealer assemblies are engineered to diminish heat loss, decreasing temperature wear on moving parts and reducing energy consumption.



Better Thermal Profile:

Our heater is designed directly over the sealing plate, eliminating any cold spots with a thermal profile engineered to deliver a superior seal. Nexthermal's profiled coil heaters have proven to reduce leakers and increase the shelf life of customers' products.

Size and Shape Versatility with Improved Performance:

Marketplace competition has resulted in unique shapes, cross-promotional packaging and functional separation of products. The Nexthermal coil heater based designs allow you to put heat more precisely where it is needed. We can help you improve the versatility of your equipment. Coil heater based top sealers encourage and support the creativity needed to improve your competitive advantage.

- Lower cycle times and increase product throughput on both new or existing top seal machines
- Improve consistency and product quality
- Reduce maintenance costs and downtime
- Lower scrap rates
- Optimize heating for sustainable packaging
- Decrease leakers and risk of contamination



Customized Heating Solutions for Packaging Applications.



Round Formable Coil Heater Easy to install. Proven performance.

Our versatile profiled round coil heaters are an ideal choice for even your most

challenging top sealing applications. These formable coil heaters can be installed into two- and three-dimensional grooves for applications where space constraints are a challenge, converting a functional component into a heat source.

- Available in 3.0mm (.118"), 3.18mm (.125"), 3.2mm (.126"), and 4.0mm (.157") Round
- Thermocouple: integrated type J or type K
- Maximum voltage: 250VAC
- Minimum bending radius: 6.35mm (.250")
- Moisture-resistant transition head



Sensors Dependable Internal & External Sensors.

Our thermocouples and RTDs are designed with precise tip placement for quick, accurate temperature sensing and can be custom built to your size

and length requirements. Our molded, stainless steel epoxy-filled transition heads are moisture resistant and come standard on sensors used in top seal and other packaging applications. Nexthermal can easily integrate sensors into your custom heater-based assemblies for accurate placement and enhanced thermal control.



Nextflex[®] Flexible Tubular Heater User Formable. Same Day Shipping.

Nextflex is engineered with a solid flexible radial casing that stays in the groove yet is very easy

to install. Conveniently marked at the center and cold sections to facilitate installation and shipped in straight lengths, Nextflex is ideal for tray sealing companies with lean manufacturing initiatives. Installation is quick and easy, reducing maintenance and replacement time.

- In stock and ready to ship in 6.5mm, 8.0mm or 8.5mm heater groove diameters
- Designed for operating temperatures up to 700° F
- Comes standard with screw terminal tip, but also available with Plug-n-Heat connection
- Provides a more even distribution of heat than a standard tubular heater



Engineering Services *Expert designs. Custom thermal solutions.*

When heat is essential to your application, product or process, you need a high-performance system

that is specifically designed to support your core application initiatives. Let Nexthermal engineers tap into their extensive heat management and top seal expertise to design process-specific plug-n-play assemblies that are engineered to solve problems and achieve your specific production goals.

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Other Packaging Applications

Form, Fill and Seal

Packaging machine cycle times are greatly impacted by the heater's profile across the working surface of the jaw. The temperature tolerance requirements of today's packaging films need to be met to ensure the best sealing performance. Nexthermal's cartridge and coil heaters are utilized in packaging machines ranging from food and beverage to personal hygiene products. We have worked closely with form, fill and seal OEMs, film manufacturers and end users to develop standard and jaw-specific wattage distribution algorithms to optimize sealing performance and cycle times.

Portion Packaging

Nexthermal is experienced in building heaters that address the specific challenges of the portion packaging industry. We have developed many specific heating solutions to decrease downtime, increase sealing effectiveness, and improve throughput. We develop and manufacture profiled heaters for today's sensitive films. With Nexthermal, you can be confident you have a heater designed to optimize thermal performance and extend heater life.

Steam Shrink Sleeve Packaging

Offering a clean and pristine appearance that works well with non-conventional shapes, steam application of plastic sleeve labels delivers a high-end appearance with a wide variety of flexible films. Nexthermal's innovative hygienically designed steam heater is ideal for steam packaging machines. With its low profile and space claim, it can be fully disassembled for cleaning to remove mineral deposits and debris from the heating channels, ensuring sanitary application and maximum flow.

Tamper proof

Safety and reliability are key factors when it comes to the production of medical, beverage, food, personal care products, and cosmetics packaging solutions. Nexthermal's coil heaters and mini coil heaters are relied upon by OEMs in the production of safe tamper proof packaging products.

Thermoformed Packaging

Infinitely customizable, thermoformed packaging is economical and versatile in design. From simple packaging created with thin foil films to more complex, multi-featured designs utilizing thick plastic sheets, a regulated uniform thickness greatly depends on using the right heater with the correct thermal profile. Offering Elstein Ceramic Infrared Radiant Heaters combined with Nexthermal's engineered heating expertise, we ensure your thermoforming process operates at maximum capacity and product integrity.

Bottle Packaging

Nexthermal is an industry veteran in engineering coil heaters for plastic injection molding preforms, bottle caps and closures. Our coil heaters are specifically profiled to deliver optimized thermal transfer to help you increase throughput and decrease scrap.

