SOUTHEAST THERMAL SYSTEMS
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TUTCONNECT

JUNE 2022

TUTCO HEATING SOLUTIONS GROUP | FARNAM CUSTOM PRODUCTS

Industrial Process

TUTCO Farnam Air Heaters for Industrial Applications

Used in factories and industrial processes around the world, TUTCO Farnam has designed and manufactured more than 2,000 process heaters for a wide range of applications. Our process air heaters are robust hot air components which deliver temperatures up to 1300º F (704ºC) airflows up to 25,000 SCFM, and are made to order and customizable.

Built to deliver precise heat, our engineers are constantly looking for new ways to improve our heaters to improve their usability and performance. After speaking with one client who uses our heaters to supply heat to the business end of heat staking equipment, we added a 3-pin connector to our Heat Torch™ products to make them easier to install and replace. Our Flow Torch™ heaters, which are very widely used in drying applications, were being modified by many customers to meet specific challenges they faced during installations. We now offer these modifications straight from the factory without voiding warranties, including reducers with and without NPT threads, flanges, v-band connectors, raised junction boxes, and plugs verses lead wires for our entire line of Flow Torch heaters.

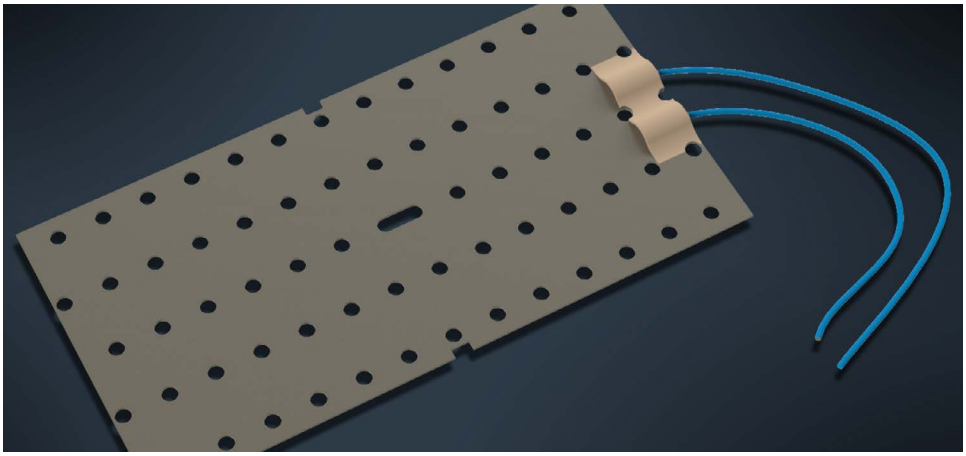
Our insulation blankets were also developed based on feedback from one of our customers. They help to reduce heat loss and act as a safety measure in the event an operator is close by. Our heat blankets provide a non-fiberglass reusable solution. Whether a customer needs to configure a standard product or build something purely custom we've probably worked on a similar application in the past and can deliver a solution that perfectly matches their application.

LEARN MORE

Plastic Process
- Plastic Injection
- Hoppers
- Heat Staking
- Resin Dryers
- Recycling
- Heat Shrinking

Ovens
- Industrial
- Curing
- Convection
- Annealing
- Catalyst
- Foundry

Drying
- Ink/Printing
- Interstation & Final
- Organic / Solvents
- Fast Moving Webs
- Pet Food
- Spray Tan
- Pre Drying
- Dehumidification



Product Spotlight
Mica Surface Heaters

Mica is the only solid insulation material known, with very high electrical insulation, and very good conductor of heat. Mica is therefore extensively used in heating elements . Mica is versatile, relatively inexpensive, and has insulating characteristics that allow TUTCO Farnam to design and produce quality heaters to meet a vast array of customer applications. The range of mica thicknesses available enables us to provide best-fit products when limited space is a factor.

TUTCO Farnam Mica Surface Heaters combine rigid durability in a thin flat design with the ability to reach temperatures as high as 1200º F (648ºC). These conductive heaters heat-up and cool-down quickly and distribute heat evenly across even curved surfaces. Rugged and highly customizable, Mica Surface Heaters are cost-effective solutions that help improve product performance and reliability. TUTCO Farnam's engineering and support team can provide you with a competitive advantage by creating a custom surface heater for your unique application.

BENEFITS

- Temperatures up to 1200ºF (648ºC)

Rapid heat up and cool down

- Distributed wattage
- Even surface heating
- Rugged construction
- Longer life
- No hot spots
- Reduced cost
- Custom shapes

APPLICATIONS

- Semiconductor
- Packaging
- Sealing Equipment
- Food service appliances
- Injection molding equipment
- Air heaters
- Enclosure systems

Flex-Specs Tool

TUTCO-Farnam's convenient Flex-Spec tool allows you to easily design our Mica Surface Heaters. Simply follow the step-by-step screen prompts to configure your heater and begin the quote process.

CLICK TO GET STARTED

Feature Video
Extending Heater Element Life with Proper Thermocouple Placement

The ability to control the heater filament temperature on a TUTCO SureHeat process air heater element is the key to extending the life of the element. The air heater's element temperature is determined by the amount of air flow and applied voltage. The low mass and high watt density of the elements used in TUTCO SureHeat's proprietary serpentine technology requires a fast control system and proper thermocouple response to minimize overshoot failures where output power exceeds its final steady state value. This month's video demonstrates how proper airflow and an appropriately placed type "k" thermocouple help extend heater element life.

CLICK TO WATCH VIDEO

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