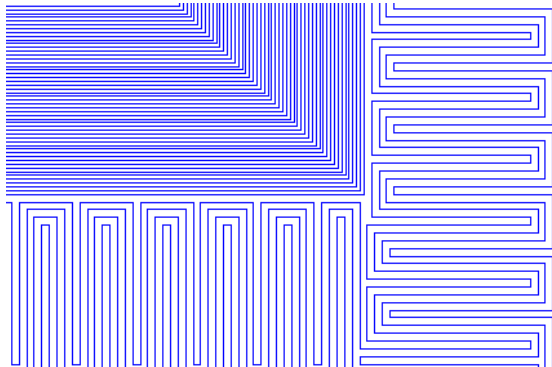
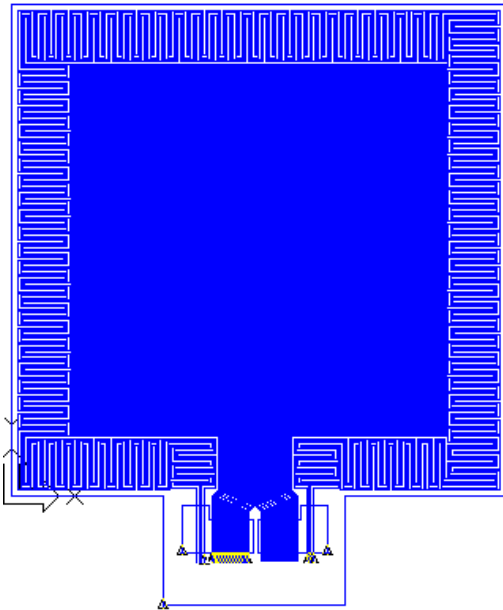


Multi-Watt Heat Blankets



Custom multi-watt heater blankets are available per customer request. The above heater design technique was used to minimize heater edge cooling.

High Performance Heat Blankets

Full Service: Design and manufacturing of heat blankets.

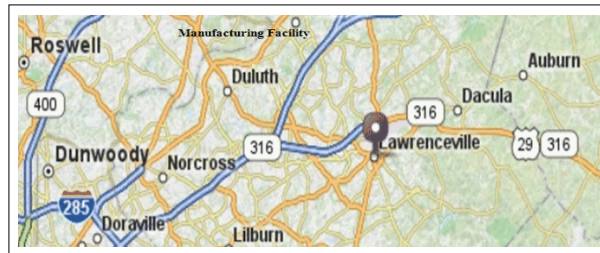
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PCKTECHNOLOGYINC

High Performance Heat Blankets



- New automated manufacturing, fast delivery
- Custom design heater blankets
- Tight wire placement < 0.76mm (0.030")
- Extremely uniform heat distribution
- Embedded RFID Technology

Industry Applications

- Composites
- Thermoplastics
- Aircraft Repair/Construction
- Auto Repair/Construction
- Boat Repair/Construction
- Medical & Surgical
- IC Testing Equipment
- Military Equipment
- Food Service Equipment
- Fiber Optic Equipment
- X-Ray Equipment

Precision Heat Blanket™

As Composite Materials are used more in products, the need for new, repair and manufacturing tools has become greater. PCK Technology, Inc. has developed an efficient manufacturing system to fulfill this need with a complete line of Composite Material heat curing blankets.

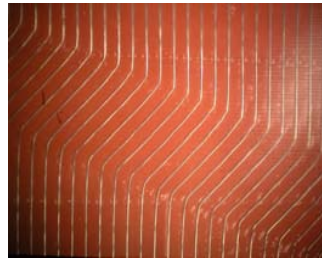
Using PCK's patented wire embedding technology, resistance wires are automatically bonded onto the silicone rubber or other materials at precise, predetermined paths using NC driven equipment. One of the advantages of using this manufacturing technique is the ability to use small AWG resistance wires at tight spacing of < 0.76mm (0.030") resulting in uniform heat distribution. This level of automation in turn produces high quality heating blankets with short production time.



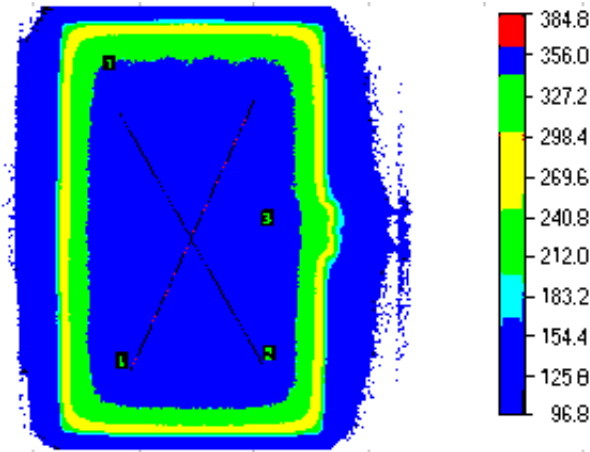
PCK's automated technique requires no special tooling fixture for heat blankets (any size or shape). This assures faster delivery time for popular and custom designed blankets. Design charges are minimal. Please note we can produce heating blankets up to 600 x 600mm (24" x 24"). Large quantity orders can be scheduled on a spaced delivery basis with initial quantities shipped shortly after receipt of the purchase order.

US Patent 8,399,814

Precision Heat Blanket™ Performance



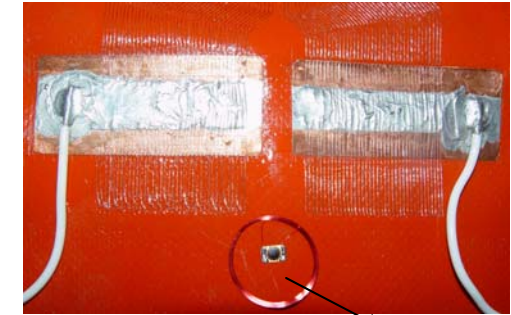
Uniform Heat Distribution over the entire heating area is achieved through tight spacing of Resistance Wire.



The above image, a thermography test performed on a 406 x 609mm (16" x 24") silicone rubber heat blanket illustrates the uniform heat distribution over the entire surface of the heater being within 5C (9F) degrees. The 60 parallel circuits (a total of 35.3 meters (747 Feet) of wire) in this heat blanket are placed at 0.965mm (0.038") from each other, using a 38 AWG, (1.00mm (0.004")) diameter resistance wire.

Smart Heat Blanket™

PCK's Smart Heater™* product includes an embedded Radio Frequency Identification Device (RFID) that gives the ability to store and retrieve data in a non-volatile manner by electronically reading, writing, or both. A hand held or stationary reader, writer unit provides the means of storing and retrieving data to and from the RFID device embedded in the heater.



RFID transponder

Common RFID Frequencies:

- 13,56 MHz = high frequency
- 125 KHz = low frequency
- 865 .. 868 MHz = UHF in Europe only
- 902 .. 928 MHz = UHF in USA and Canada
- 2.400 .. 2.483 GHz = SHF in USA and Canada

RFID transponders with a read / write interface can store valuable tracking information related to the heat blanket for example; date and time, process parameters, manufacturer information such as part number, serial number, heater size, voltage, wattage, resistance per square inch, etc... Specific RFID transponders and custom interfaces can be provided upon request. The smart heater™ is an excellent means for security.

US Patent 8,399,814