

# Cast-In Heaters – Complex Geometrics for Diversified Industries

## Delivering Cutting-Edge Engineered Cast-In Thermal Component Solutions

Today's fast-paced and high-tech industries demand products that are high quality, unique, reliable, and diverse. Tempco is passionate about meeting those expectations and putting our customers' needs first by providing quality service and product with superior capabilities. Tempco specializes in engineering and manufacturing customized cast-in thermal component solutions to service and support virtually all major industries. The following pages illustrate a sampling of cast-in thermal components we have produced for original equipment manufacturers (OEM's) and maintenance (MRO) applications that enjoy the advantages and benefits that our products offer.

**High Performance Cast-In Thermal Components are not Just a Challenge – They Are Our Bread & Butter. Please Consult Us with Your Requirements. We Welcome Your Inquiries.**



Cast Iron Manifold Heater for Aluminum Low Pressure Casting Machine



Aluminum Cast-In Heater Used in the Carpet Mill Industry



Oil Pre-Heater for Industrial Process Equipment



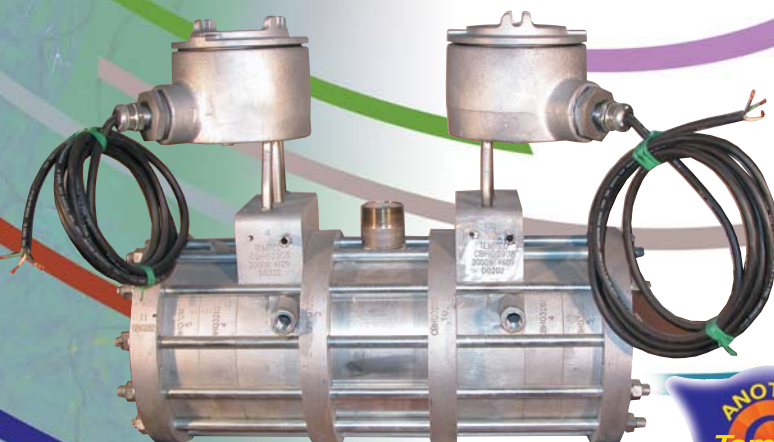
Barrel Adapter for Polymer Extruder Equipment



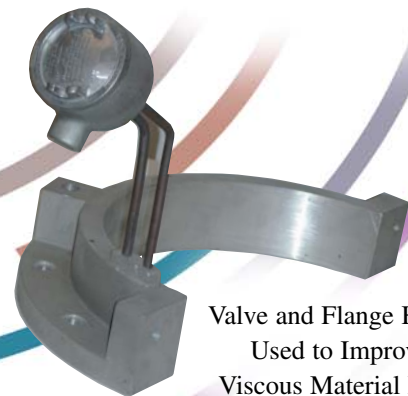
Autoclave Pure Aluminum Cast-In Heater Electroless Nickel-Plated for Sterilizing Dental Instruments



Heater used on a Custom Rectangular Barrel for a Monofilament Line Extruder



System for Pre-Heating and Mixing Chemicals for Sand Cores



Valve and Flange Heater Used to Improve Viscous Material Flow

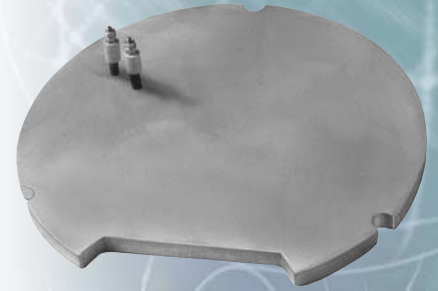
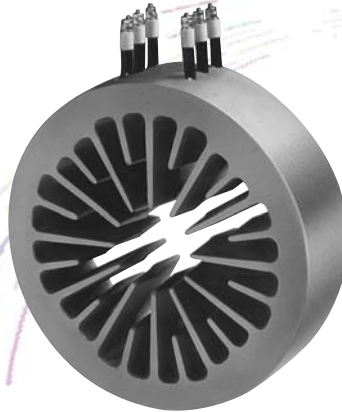


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Integral Machine Component  
Cast-In Heater

Cast-In Heater Used to Decrease  
Viscosity in Glue Processing



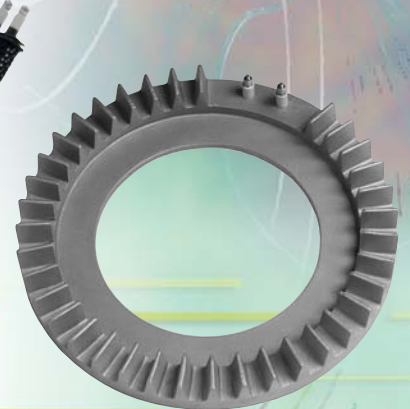
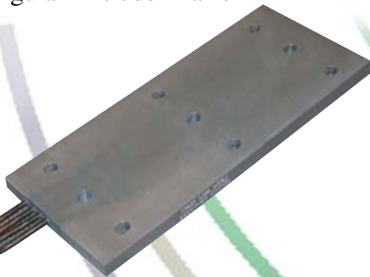
Waste Treatment Sanitation  
Equipment Heater



In-Line System for  
Pre-Heating Water to  
Induce Humidity in Baking Ovens



Cast-In Platen used for  
Heating a Custom  
Rectangular Extruder Barrel



Used as a Resistor for  
Thermal Dynamic Braking of  
Large Electric Motors



Bronze Cast-In Heater for  
Pre-Heating Salt Baths

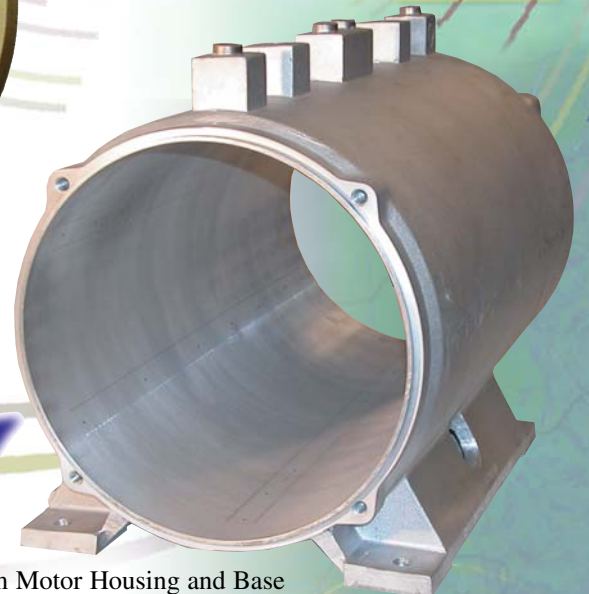


Bronze Cast-In Heater for  
a Laminating Press



Cast Aluminum Motor Housing and Base  
with Integral Liquid Cool Capabilities used for Medium  
to Large Horsepower Electric Motors

*Can be made for any size motor.*  
Developed and Patented by Tempco  
U.S. Patents: # 622289 & #5939808



**CONTINUED** →

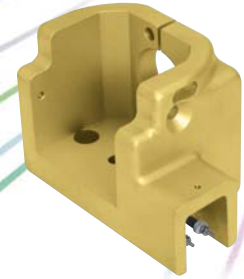
# Cast-In Heaters – Complex Geometrics for Diversified Industries



Used in the Packaging Industry for Adhering Tax Stamps to Cigarette Packs



Bronze Cast-In Heater Used in the Packaging Industry for Container Sealing



Brass Casting Used in Industrial Processing Machinery



Bronze Electroless Nickel-Plated Cast-In Heater Used in Equipment that Tests Nuclear Hazardous Waste

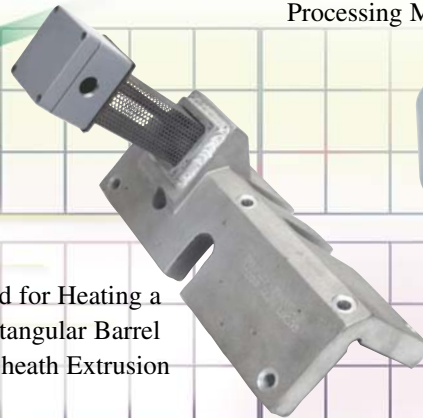


Used in a Thermoforming Mold

Used as Part of a Feed Nozzle in a Candy Processing Machine



Used for Freeze Protection in an Outdoor Valve Assembly



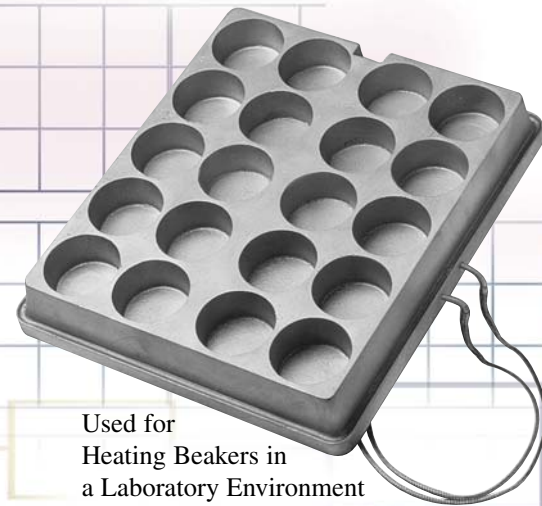
Used for Heating a Rectangular Barrel for Sheath Extrusion



Plastic Processing Extrusion Die Heater



Bronze Cast-In Heater Used in Heating Outdoor Hoppers to Maintain Product Flow



Used for Heating Beakers in a Laboratory Environment

## Additional Applications Where Tempco Cast-In Heaters Are Used

- Chemical Processing
- Extrusion Die Heaters
- Food Service Equipment
- Glue Pots
- Heat Sealing
- Heat Sealing Equipment
- Heat Treating Equipment
- Hot Melt Dispensing Equipment
- Hot Stamping Machinery
- Laboratory Equipment
- Laminating Equipment
- Life Science Equipment
- Packaging Machinery
- Plastics Machinery
- Research and Development
- Silk-Screening Equipment
- Solvent Reclaim Equipment
- Steam Cleaning Equipment
- Textile Manufacturing
- Vacuum Forming



**Note:** The cast-in thermal components shown on pages 3-4 through 3-18 are merely a sampling of our capabilities.

Let the endless possibilities spark your imagination!

Put our knowledge and experience to work for you.

Challenge us!  
You will be glad you did.

**We Welcome your Inquiries**