

# CAST-IN HEATERS FOR COMPLEX GEOMETRIES



Cast Iron Manifold Heater for Aluminum Low Pressure Casting Machine

**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 products 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 (OEMs) and maintenance (MRO) applications that enjoy the advantages and benefits our products offer.

Aluminum Cast-In Heater for Plastic Extrusion



Rectangular Manifold Cast-In Heater



Aluminum Cast-In Heater Used in the Carpet Mill Industry

**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.**



Oil Pre-Heater for Industrial Process Equipment



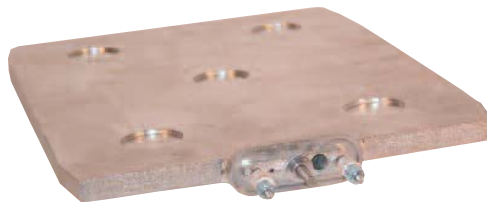
Barrel Adapter for Polymer Extruder Equipment



Heating Elements & Aluminum Cast Over Steel Transfer Feed Pipe



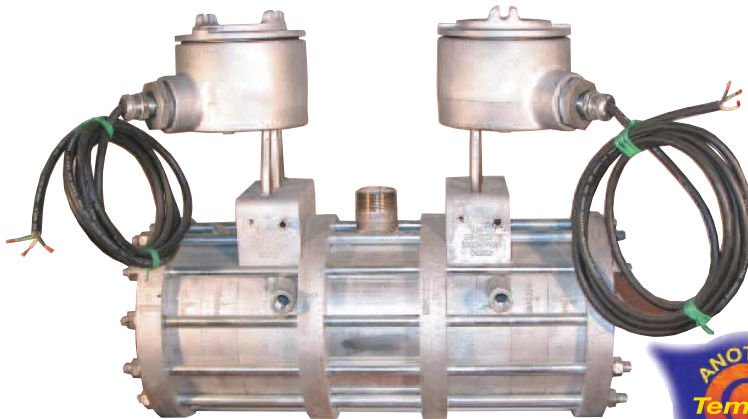
Autoclave Aluminum Cast-In Heater Electroless Nickel-Plated for Sterilizing Dental Instruments



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



Valve and Flange Heater Used to Improve Viscous Material Flow



System for Pre-Heating and Mixing Chemicals for Sand Cores

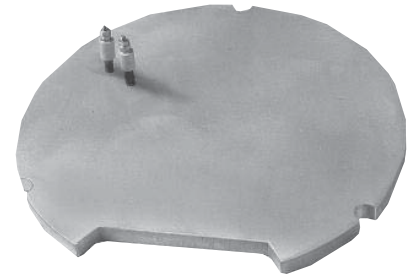


# CAST-IN HEATERS FOR COMPLEX GEOMETRIES

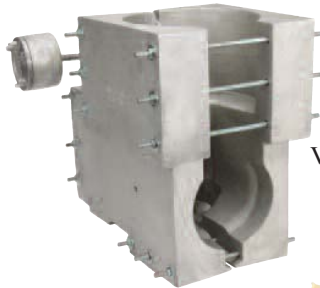


Heating & Cooling Cylinder used in Lab Testing Equipment

Cast-In Heater Used to Decrease Viscosity in Glue Processing



Waste Treatment Sanitation Equipment Heater



Manifold Valve Assembly



Bronze Cast-In Heater for Package Sealing Machine



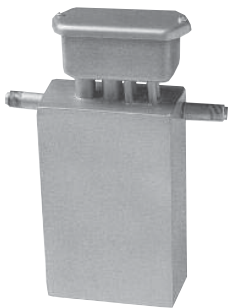
Cast-In Platen used for Heating a Custom Rectangular Extruder Barrel



Bronze Cast-In Heater for Pre-Heating Salt Baths



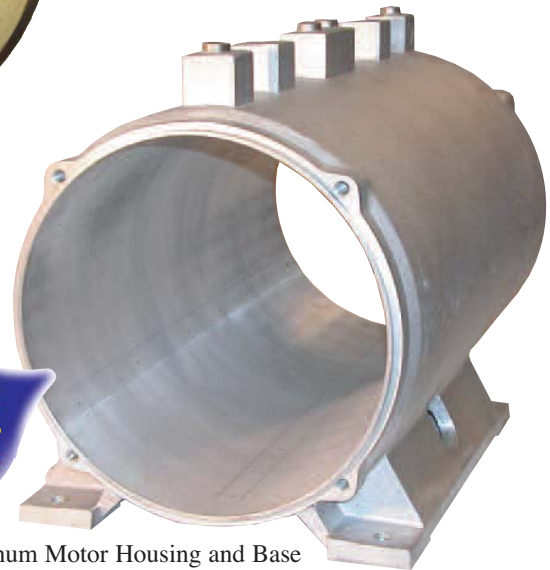
Used as a Resistor for Thermal Dynamic Braking of Large Electric Motors



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



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: # 6222289 & #5939808



# CAST-IN HEATERS FOR COMPLEX GEOMETRIES

Continued from previous page...



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



Cast-In Heater for Melt Pump



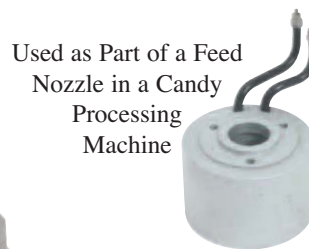
Brass Casting Used in Industrial Processing Machinery



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



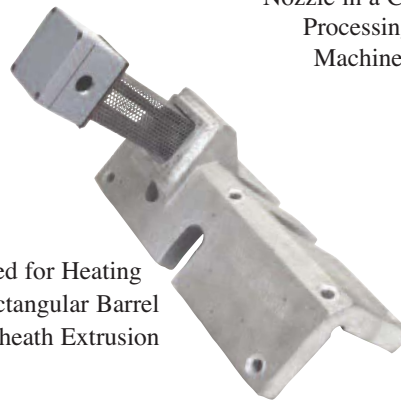
Used in a Thermoforming Mold



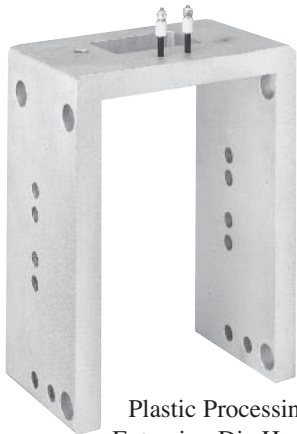
Used as Part of a Feed Nozzle in a Candy Processing Machine



Bronze Cast-In heater used to maintain Hydraulic Oil Temperature



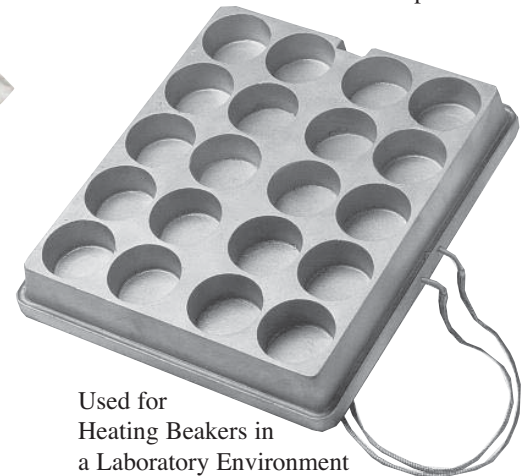
Used for Heating a Rectangular Barrel for Sheath Extrusion



Plastic Processing Extrusion Die Heater



Bronze Cast-In Heater Used in Helicone Mixture to Heat High Viscosity Material



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 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 3-6 through 3-14 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**