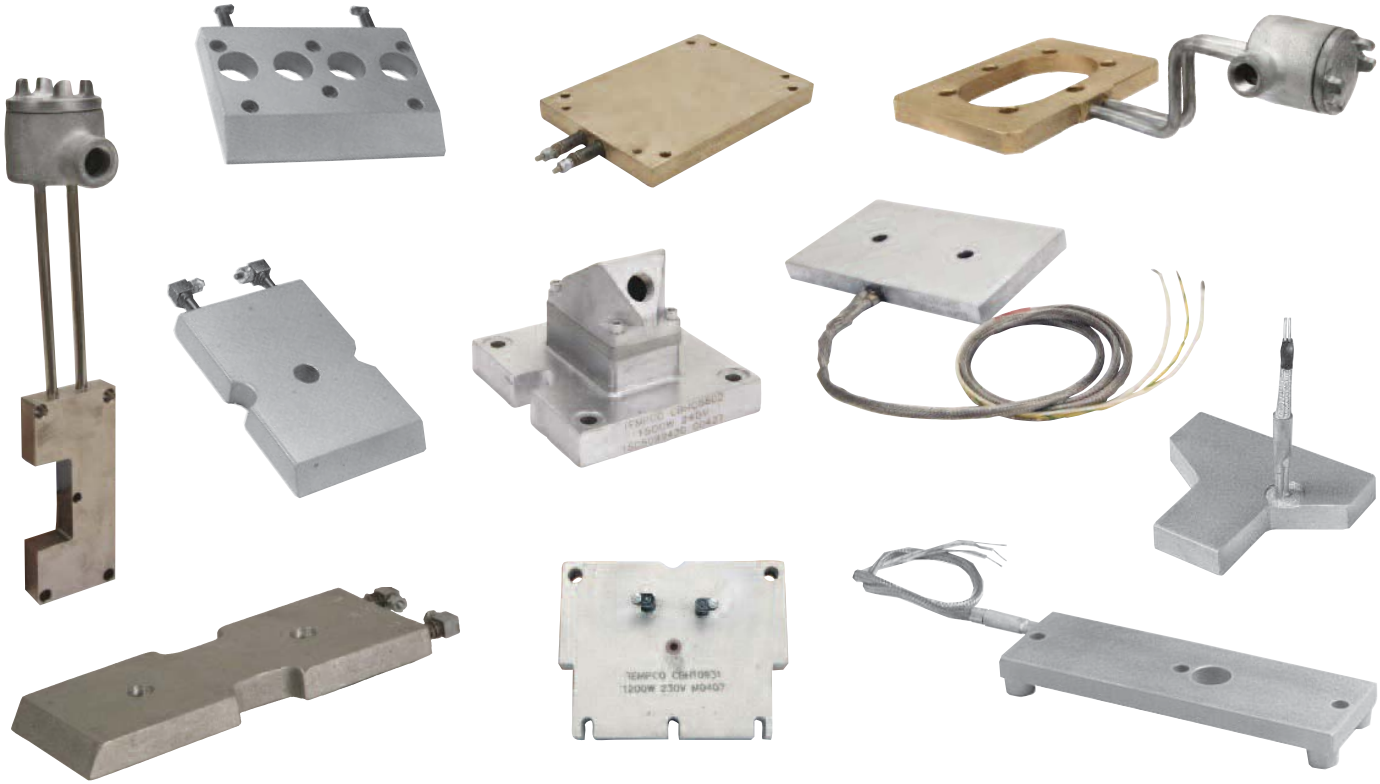
Cast-In Heaters

Platen Die Heaters

Cast-In Aluminum and Bronze Platen Die Heaters for Plastics Processing Equipment



Tempco Cast-In Platen Heaters are widely accepted as the industry standard for heating critical, temperature-sensitive plastics processing downstream equipment.

Typically, plastic die applications are highly temperature sensitive and require extreme heater uniformity and reliability.

Tempco Cast-In Aluminum Platen Heaters are a logical choice to satisfy these critical application parameters, as the aluminum alloy has excellent thermal conductivity and a highly reliable, computer designed heating element which provides good contamination resistance. Optional cooling tubes can be cast-in to more precisely regulate the temperature of your process. The result is a highly efficient, uniform heater which, if used properly, can be expected to provide years of trouble-free service.

Cast-In Platen Heaters are generally manufactured in aluminum but can also be made in bronze or brass alloys to meet higher temperature processing requirements. For high volume requirements, the permanent mold process can be used to achieve the most effective economies of scale as well as yielding the best cosmetic appeal. To service customers with lower volume orders, Tempco's high quality no-bake sand mold process will be used, which assures excellent part quality and employs economical tooling.

Standard Cast-In Platen Heaters Design Features and Options

- ***Computer designed, precisely formed tubular heating element, optimizing the heat transfer pattern***
- ***A variety of termination options including terminal enclosure housings***
- ***Optional 1/4", 3/8", or 1/2" cooling tubes cast into the platen for liquid cool function***
- ***A variety of shapes and sizes made to your specifications***
- ***Through-holes, tapped holes or cutouts to facilitate mounting or obstructions***
- ***Precision machining of one or all surfaces of casting—specify your individual requirements.***

Typical Applications for Tempco's Cast-In Platen Die Heaters:

- *Sheet dies*
- *Plastic molds*
- *Plastic welding equipment*
- *Cast film dies*
- *Calendaring dies*
- *Screen changer equipment*

Note: Cast-In Platen Heaters are made to customer specifications. Please review our "Standard Sizes and Ratings" data along with our "How To Order" information to determine the heater best suited to your needs. Tempco also offers numerous sizes and styles off the shelf for immediate delivery.

For further information on large platen heaters see pages 3-18 through 3-23.