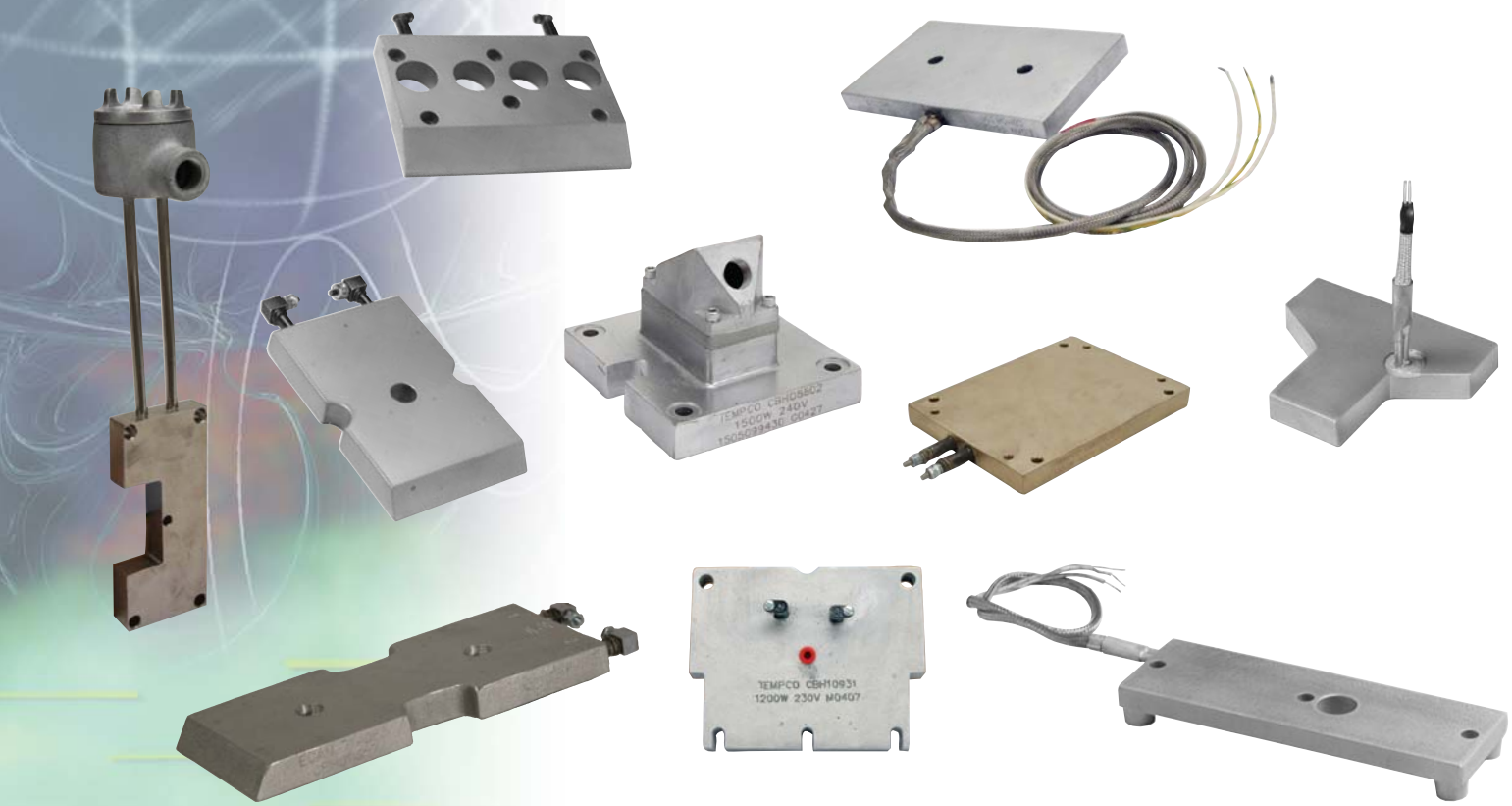
Platen Die Heaters

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 lesser volume orders, Tempco's high quality no-bake sand mold process will be used, which assures excellent part quality and employs economical tooling.

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*

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.*

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 3-14 through 3-17.

Stock and Standard (Non-Stock) Platen Die Heaters For Plastics Processing Equipment

The sizes and ratings listed are among the most commonly used. They will provide the shortest lead times.

Length in	Width in	Thickness in	Wattage	Volts	Notes	Part Number
3.000	4.000	0.750	400	230	(1) 5/8"dia. hole	CBH02755
3.500	4.500	0.750	600	230	(1) 5/8"dia. hole	*CBH03065
3.875	3.500	0.750	500	230	(1) 5/8"dia. hole	*CBH03468
3.875	3.500	0.750	500	230	(1) 5/8"dia. hole	CBH03147
4.000	4.000	0.750	600	240	60" Leads, 58" armor cable (1) 9/16"dia. hole	CBH05665
4.500	4.750	0.750	800	220	144" Leads, 120" braid, (1) 5/8"dia. hole	*CBH04845
5.000	5.000	0.750	900	220	(4) 5/16" dia. holes, (1) 1/8" NPT, C2 box	CBH01045
5.500	3.500	0.750	600	240	66" Leads, 64" braid, (1) 9/16"dia. hole	*CBH03869
5.500	4.500	0.750	900	230	48" Leads, 36" braid, (1) 9/16"dia. hole	CBH02698
5.875	3.875	0.750	750	230	(1) 5/8"dia. hole, 30° at front	*CBH02255
5.875	3.875	0.750	750	230	(1) 5/8"dia. hole, 30° at front, has ground screw	*CBH04170
6.000	3.500	0.750	800	230	(1) 5/8"dia. hole, (1) #10-32 tap	*CBH05693
6.000	4.500	0.750	800	460	(2) 5/8"dia. holes	CBH04104
6.250	5.469	1.938	1000	230	(2) 3/8-16 tap, (2) 5/16-18 tap	*CBH01090
7.000	4.000	0.625	800	240	P1 cup, (4) 5/16" dia. holes, (1) 1/2" dia. hole	CBH08409
7.500	3.000	1.000	1000	110	52" Leads & 48" Wire braid, (2) 9/16" dia. holes	CBH03453
7.500	5.500	1.000	1350	230	208" Leads, 180" braid, (1) 5/8"dia. hole	CBH04234
8.000	6.250	1.000	1200	230	(2) 13/32" dia. holes, (1) 1/8" NPT tap, (3) 13/32" slots	CBH01091
8.660	7.874	0.433	1250	220	24" Leads, 10" braid, (3) .213"dia. holes, (2).234"dia. holes	*CBH04086
9.500	6.250	1.000	1700	230	(3) 13/32"dia. holes, (3) 13/32" slots, (1) 1/8" NPT tap	CBH01088
11.500	3.375	0.750	1900	240	C2 box, (8) bolt holes, (1) 5/8" dia. hole	CBH07511
11.875	23.875	0.750	4300	240	(226) 1/4" dia. holes	CBH05195
13.250	11.625	1.000	3450	230	(7) 13/32"dia. holes, (3) 13/32" slots, (1) 1/8" NPT tap	CBH01089
21.653	7.480	0.866	4500	280	P1 cup, (6) bolt holes	CBH05054
22.000	10.750	0.625	5000	240	(2) elements	CBH06970
22.750	18.000	0.750	10000	480	30" Leads, 3 phase, (403) 1/4" dia. holes	*CBH06162
22.750	18.000	0.750	10000	240	30" Leads, 3 phase, (403) 1/4" dia. holes	*CBH06225
22.750	22.000	0.750	12200	480	31" Leads, 3 phase, (344) 1/4" dia. holes	CBH07475
23.875	11.875	0.750	4300	240	S: 8-32, Dual element, (226) 1/4" dia. holes	CBH06947
23.875	11.875	0.750	8000	240	S: 8-32, Dual element, (226) 1/4" dia. holes	*CBH06948
26.000	22.750	0.750	13200	480	16" Leads, 3 phase, (305) 1/4" dia. holes	CBH07477
26.500	3.375	0.750	4000	240	(18) bolt holes, (1) 5/8" dia. hole, C2 box	CBH07594

Note: Part numbers are for aluminum heaters unless otherwise specified.

An asterisk (*) next to the Part Number guarantees in-stock availability for same-day shipping when ORDERED BY 2 PM CST

Note: Customer Assistance:
If you have a special application requiring a custom manufactured Cast-In Aluminum or Bronze Platen Die Heaters or need assistance selecting one of our standard die heaters, consult Tempco with your requirements. We offer complete engineering services and support, working with you every step of the way, to ensure customer satisfaction.

CUSTOM Manufactured

For sizes and ratings not listed, **TEMPCO** will design and manufacture a Platen Heater to meet your requirements.
Specify the following:

- ❑ Length
- ❑ Width
- ❑ Thickness
- ❑ Wattage and Voltage
- ❑ Termination type (see pages 3-52 and 3-53)
- ❑ Alloy (Aluminum or Bronze)
- ❑ Special Features
- ❑ Machining Specifications
- ❑ Detailed Drawing