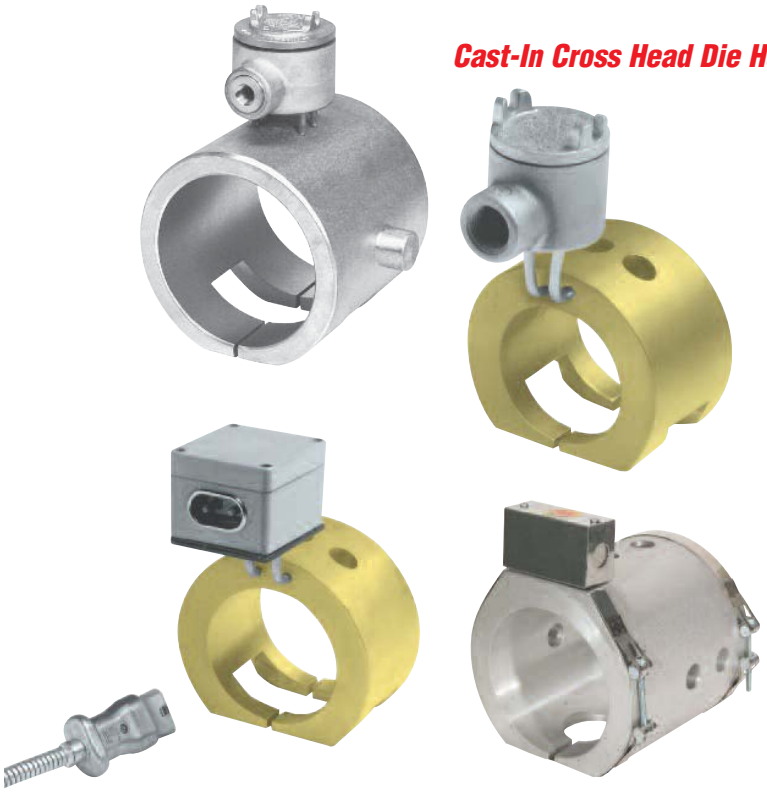

Cast-In Cross Head Die Heaters for Plastics Extrusion Processing Equipment

Maximize Service Life on Difficult Extrusion Die Applications

Extrusion Cross Head and related extrusion dies present extremely challenging operating parameters to most conventional heating elements. This is primarily due to the presence of excessive contamination, high watt densities and high temperature as well as unusual physical and dimensional requirements.

Many processors continue to use ceramic and mica band heaters on this application, with frequently marginal results. In these instances, Cast-In Aluminum or Bronze heaters are recommended to substantially improve heater life expectancy and performance.

Cast-In Heaters are less susceptible to contamination problems, and can operate at higher temperatures with higher watt densities. In addition, the design is structurally better suited to accommodate holes and cutouts without compromising the heater's electrical and mechanical integrity.

As a standard, Cross Head Die Heaters are typically designed in aluminum as a one-piece band with a single slot that can be slid over the die and clamped with stainless steel clamping straps. For higher temperature or high watt density requirements, bronze or brass alloys can be used.

Standard Cross Head Die Heaters

Design Features and Options:

- ***Computer designed, precisely formed tubular heating element, optimizing the heat transfer pattern.***
- ***Variety of termination options, including terminal enclosure housings.***
- ***Optional 1/4", 3/8" or 1/2" cooling tubes cast into the cross head die body for liquid cool function.***
- ***Variety of shapes and sizes.***
- ***Aluminum and bronze alloys.***
- ***Through holes, tap holes or cutouts to facilitate mounting or obstructions.***
- ***Precision machining of one or all surfaces of casting – specify your individual requirements.***

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

Stock and Standard (Non-Stock) Cross Head Die Cast-In Heaters

Stock Items Are Shown In RED

I.D. in	O.D. in	Length in	Thickness in	Watts	Volts	Special Features	Part Number
2.500	4.000	2.625	0.750	750	240	Bronze, (3) ⅝" dia. holes, C7 terminal box	CBH01913
3.000	4.500	4.000	0.750	1200	240	Bronze, (3) ¾" dia. holes, 2" dia. cutout, R1 cable 70", 72" leads	CBH02634
3.248	5.248	3.000	1.000	750	230	(3) ¾" dia. holes, P2 plug, 92" cable, 102" leads	**CBH05491**
3.248	5.25	3.000	1.000	750	230	(3) ¾" dia. holes, EP box	CBH03741
3.248	5.25	3.000	1.000	750	230	(3) ¾" dia. holes, EP box, 72" cable, 78" leads	CBH09274
3.250	5.250	3.000	1.000	1000	240	Bronze, (2) ⅝" and (1) ⅞" dia. hole, (1) 1¼" Lg. cutout EP box	CBH04153
3.250	5.25	5.625	1.000	1200	230	(2) ¾" & (2) ⅞" dia holes, 1" slot, EP box, 72" cable, 84" leads	CBH09275
4.000	6.000	3.100	1.000	1200	240	EP Terminal box, (3) ¾" dia. holes	CBH03979
5.000	6.500	2.250	0.750	700	240	Bronze, bolt clamp, (4) ¾" dia. holes	CBH03753
5.000	6.500	5.875	0.750	2400	240	Bronze, (1) 2½" dia. hole, (2) ⅞" dia. holes	**CBH01382**
5.000	7.000	6.500	1.000	3000	460	Brass, CT, EP box, 2.125 × 1.688 cutout	CBH09123
5.687	7.750	8.500	1.031	3000	230	Bronze, CT, EP box, 2.375 × 1.562 cutout	CBH09150
5.998	8.000	4.313	1.000	2400	230	Brass, EP box, (1) ¾" dia. hole, 2.125 × 1.688 cutout	CBH09180
6.000	8.000	4.313	1.000	2400	240	C2 box, (2) ¾" dia holes	CBH06161
6.000	8.000	4.313	1.000	2400	460	EP Terminal box, (1) 2⅛" Lg. cutout, (2) ¾" dia. holes	CBH04030
7.500	9.500	8.875	1.000	4000	460	Brass, CT, EP box, 2.750 × 1.875 cutout	CBH09124