

ALUMINIUM CAST BAND HEATER



OVERVIEW

Cast Band Heater is the toughest band heater available. This cast band heater can withstand shock and vibration or contamination. They are made with or without liquid and/or air cooling. Liquid cooling incorporates tubing cast in as part of the heater assembly, allowing water or heat transfer solutions to remove the heat. Air cooling uses fins cast to the O. D. surface of the band heater. Blowers and specially designed shrouds aid in heat removal.

Aluminum Cast Heaters are made of tubular type heating coil embedded with Aluminum-Alloy by the forming process. It's life and performance depend on design of tubular heating elements such as its Geometry/ Structure, Quality of raw material, Stress of heating element, Selection of Aluminum Grade, Casting process, Purity of raw material and Machining process.

Cast Band Heaters can be made as Heat Only, Cool Only, or Heat/Cool. Tubular Heaters are cast inside the heater aluminum or bronze body. This provides excellent heat transfer. The inside diameter is machined to a precise dimension for a tight fit.

CAST HEATER ARE AVAILABLE IN VARIOUS SIZE AND SHAPES SUCH AS: -

- ✓ Flat plate
- ✓ L type/Square
- ✓ Cylindrical
- ✓ Straight
- ✓ Ring

FOR ENQUIRY

Call us: - 020-27484756 / 9049918253 / 9422088017

Fax: - 020-27458946, Email-id: - sunbrightindustries@yahoo.co.in

TERMINATION PROTECTION

➤ **Standard Terminal Box**



This is an individual terminal box for protecting the terminals on each Cast-In Band Heater half and on many other Cast-In Heater designs with one set of heater terminals. It is made from heavy gauge, rust-resistant sheet metal. The cover is removable for easy access to terminals. The box has two 7/8" diameter knockouts opposite each other for standard 1/2" BX connectors.

➤ **Terminal Box attached to Clamping Straps**



The boxes are made from rust-resistant sheet metal. The base is fixed to the clamping straps. The box has two 7/8" diameter knockouts opposite each other for standard 1/2" BX connectors. The cover is removable, providing easy access to the screw terminals for electrical wiring.

➤ **Quick Disconnect Plug Assembly with Box**



Quick-Disconnect Cup assemblies provide the simplest and safest means for applying power to any type of Cast-In Heater installation. The combination of prewired cup and box assembly, along with factory prewired high temperature lead wire protected with armor cable, eliminates live exposed heater terminals and electrical wiring, protecting employees from electrical shock and the possibility of electrical shorts due to exposed wiring.

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➤ **Explosion & Moisture Resistant Box**



Cast iron explosion and moisture resistant boxes should be used in areas where the surrounding air may become contaminated with combustible gases or a high humidity level may exist.

➤ **Cast Aluminum Box**



A Cast Aluminum Box is used to protect and secure lead wire terminations on narrower designs.

CLAMPING OPTIONS

➤ **Strap Clamping**



Strap clamping is used to secure the heater to the extruder barrel with 3/4" or 1-1/4" wide low expansion stainless steel clamping straps with 1/4"-20 socket head cap screws and barrel nuts.

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➤ Bolt Clamp



Strap clamping is used to secure the heater to the barrel by bolts clamping the two halves together around the barrel. A variety of bolt clamping designs and hardware is available.

TECHNICAL SPECIFICATION

Watt Density	10-to-60 watt sq/ch.
Voltage	110-440 V
Maximum Temp	Aluminum alloy - 375 °C

FEATURES

- ✓ Uniform surface temperatures.
- ✓ High Thermal Conductivity provides uniform temperature.
- ✓ Protection against corrosion.
- ✓ Protection against vibration and impacts due to rugged construction.
- ✓ Cast-in heaters can be supplied with cooling tubes & end fitting.
- ✓ Durable Life span

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APPLICATIONS

- ✓ Extruder Barrel Heating
- ✓ Plastic processing industry, Blown Film Dies
- ✓ Curing of Bakelite products - sandwich wood, fiber glass products
- ✓ Indirect Oil Heating
- ✓ Hot Stamp and Die Heating
- ✓ Runner less Molding-Plastics.



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