

# SUBHOT<sup>®</sup>

## INDUSTRIAL HEATERS

# STRIP & FINNED STRIP HEATER

Specialist In: Custom Built Heaters & Heater Assembly Unit Along-With Temperature Controller As Per Customer's Specification.



AN ISO 9001:2015 COMPANY

NSIC  
CERTIFIED CO.



ZED  
Zero Effect Zero Defect



etiāci  
035-CB-QMS



[www.subhoheater.com](http://www.subhoheater.com)

+91 9999710410, 9311163794, [sales@subhoheaters.com](mailto:sales@subhoheaters.com), [info@subhoheaters.com](mailto:info@subhoheaters.com)

51/10, Madhuban Bapudham Industrial Area, Meerut Road, Ghaziabad, Uttar Pradesh 201013

SUBHOT ENTERPRISES PRIVATE LIMITED

## Company Profile

**"SUBHOT"** the brand name of **Three Decades Rich**, quality oriented and completely indigenously manufactured IEC standard product since 1990, we are catering successfully to domestic and international Industries. We design develop and supply industrial heaters, heating elements, thermocouples and other high temperature Material Management equipments as per the customer's requirement. We have in house Design, Development & research facilities, follows by stringent quality control measures right from beginning to delivery of the material. Customer satisfaction is our first priority.

We manufacture various types of Tubular Electrical Heaters and heating systems, along with control accessories Cartridge Heaters, Mica Band Heaters, Ceramic Band Heaters, Casted Heaters, Furnace Heaters, Nozzle Heaters, Coil heaters, which are used in Hazardous and Non Hazardous area. In Tubular Electrical heater Heating element is Mineral filled sheathed tubular type. Heating element Insulation material used is Mgo (Magnesium oxide) and heating element wire material is Nichrome. Heating elements are manufactured and tested as per IS-4159 BIS Standards. Electrical heaters are suitable for application for Water, Oil, Chemical, Air, Fuel gas, Natural gases etc and Design as per requirement of customer based on the technical input provided by them. Heating unit consist of Heater vessel, Heater bundle, Terminal box, and U-Shaped heating element fitted on Tube sheet .The selection of heating element for a particular assembly depends on the uses & customers requirement total rating, surface loading, diameter of heating element tube, Operating temperature, space limitation, Type of electrical connection and number of bank etc. The heating element can be permanently fixed on tube sheet OR Can be removable type. Various Sheath material and sizes are available based on design requirement. The heating unit can be supplies Complete with Heater Vessel, Inlet-Outlet Nozzle/Flange, Lug Support and external insulation.

**Heater vessels are generally designed as per ASME SecVIII Div-1. For Hazardous area flameproof terminal box are used which are duly certified by CMRI Dhanabad for Gas group IIA, IIB or IIC.**

### **We are also manufacturing the following product at our works:**

- Immersion heating elements for Water, Oil and Chemical heating.
- Air Heating element
- Fuel gas and Process gas heater.
- Regeneration heaters.
- Large heating unit upto 520KW with terminal box and control panel.
- Heater for ESP and Ash handling system.
- Cartridge Heaters
- Mica Band Heaters
- Ceramic Band Heaters
- Casted Heaters
- Furnace Heaters



**Size of heating tube:** 8.2mm, 9.5mm, 11.0mm, 12.0mm, 12.5mm, and 16.0mm,19.0 mm or as per customer requirement.

**MOC of Heating Tube:** Copper, Titanium, SS all grade, Incoloy 800,Inconel etc.

**Sizing of Tube Sheet:** As per design requirement.

**Sizing of Heater Vessel:** As per design requirement.

**Thermocouple:** J & K Type own make in SS all grade and Incoloy.

## STRIP & FINNED STRIP HEATER



## DESCRIPTION

Strip And Finned Strip Heaters Are Versatile Surface And Air Heating Elements, Engineered For Applications Requiring Uniform Heating, Durability, And High Efficiency.

These Heaters Consist Of A NiCr Resistance Wire Wound Inside A Ceramic Core, Encased In A Metallic Sheath For Protection And Effective Heat Transfer. For Higher Airflow Applications, Continuous Metal Fins Are Furnace-Brazed To The Sheath, Significantly Improving Convective Heat Dissipation And Enabling Compact Designs With Higher Watt Densities.

They Are Widely Used In Plastic Machinery, Ovens, Dryers, Load Banks, Hoppers, And Conveyors, Offering Excellent Thermal Performance, Mechanical Strength, And Long Service Life With Minimal Maintenance.

## COMPONENTS

Component	Material / Details
Resistance Wire	NiCr alloy wire helically wound in ceramic core for uniform watt density.
Ceramic Core	High-purity alumina ceramic core ensures electrical insulation and heat transfer.
Sheath	Stainless Steel, Iron, Aluminum, or GI tubing for robust protection and conduction.
Brazed Fins	Continuous metal fins furnace-brazed to sheath for enhanced convective heat transfer.
Terminal Head	IP65-rated terminal enclosure with ceramic block and strain reliefs for safe connections.
Mounting Tabs	Welded/bolted tabs for secure surface or duct installation; custom patterns available.

## TECHNICAL SPECIFICATION

Parameter	Specification
Sheath Material	Stainless Steel, Iron, Aluminum, GI
Watt Density	Up to 30 W/in <sup>2</sup>
Voltage	Up to 480 V AC
Operating Temp.	Up to 450 °C
Length	5½" to 48" (custom lengths available)
Width	Standard 2" (custom options available)
Fin Height	Up to 20 mm (optional)

## ADVANTAGES

- Energy-efficient design reduces operating costs.
- Versatility: can be used for both surface heating and air heating.
- High performance: capable of handling high watt density with uniform heat distribution.
- Compact design: finned models provide greater heat output in limited space.
- Customizable: sheath materials, fin height, mounting tabs, and electrical terminations can be tailored.
- Durability: withstands thermal cycling, vibrations, and mechanical stresses.

## APPLICATIONS

- Plastic molding machines – platen, nozzle, and die heating.
- Heating platens & dies for presses and molding tools.
- Industrial ovens, dryers, and air handling units.
- Load bank resistors for testing power systems.
- Hopper, conveyor, and chute heating for moisture removal and material flow.
- Cabinet and duct heaters for process air heating.

## FEATURES

- Minimal thermal mass enables rapid heating response.
- Very low pressure drop, ensuring maximum airflow efficiency.
- Service-friendly design with replaceable coil assemblies.
- Customizable shapes, lengths, and layouts for ducts, ovens, or chambers.
- High-temperature insulation ensures long service life.
- Optional protective guards for added safety in rugged conditions.