

COIL & HOT RUNNER 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.

CE

ZED
Zero Effect Zero Defect

D&B
Decide with Confidence

MEMBER OF MULTILATERAL
COOPERATION ARRANGEMENT
IAF

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035-CB-QMS

GeM
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Efficient • Transparent • Inclusive

www.subhoheater.com

+91 9999710410, 9311163794, sales@subhoheaters.com, info@subhoheaters.com

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

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.

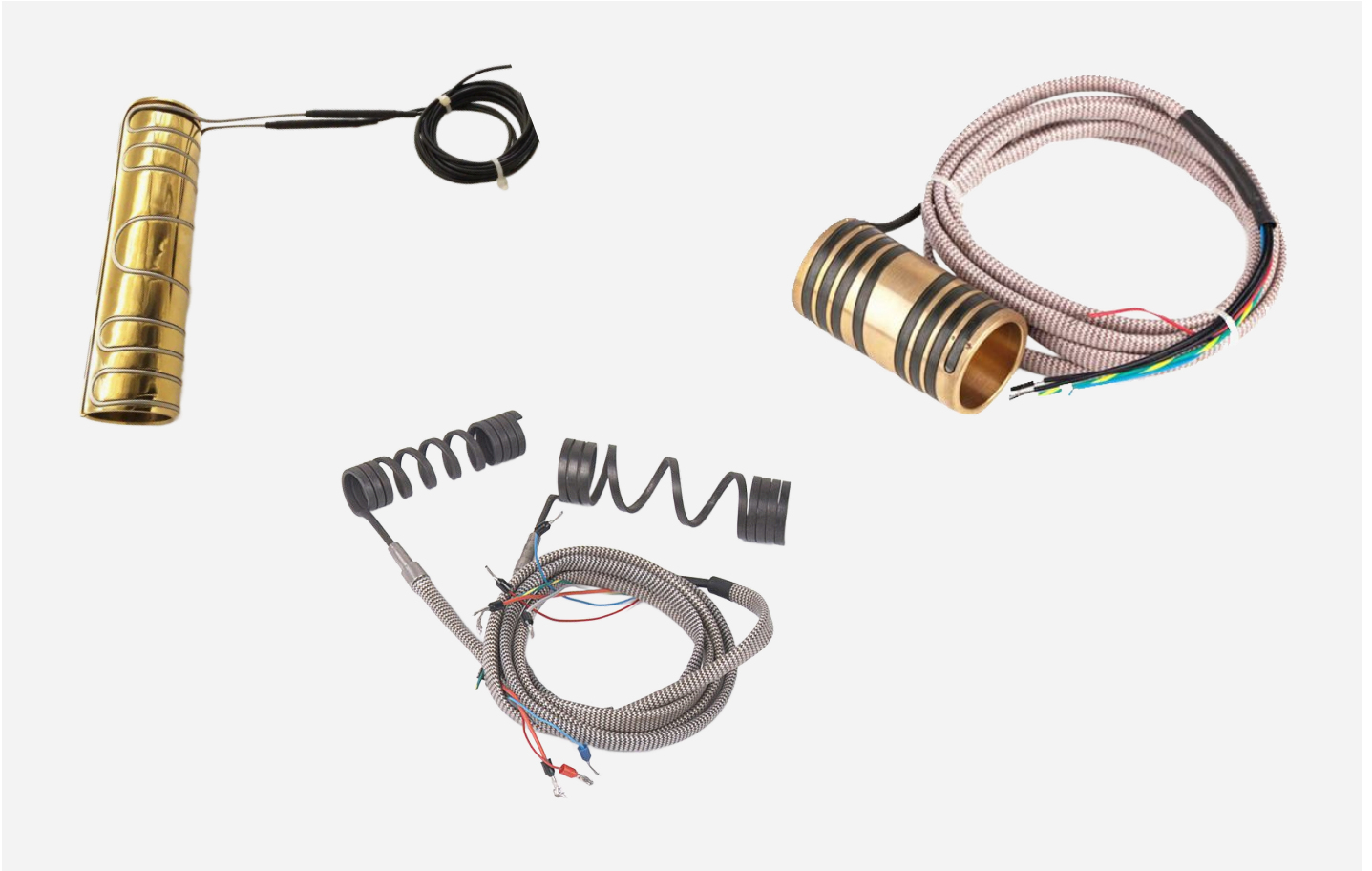
MOC of Heating Tube: Copper, Titanium, SS all grade, Incoloy 800,Inconel etc.

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.

COIL & HOT RUNNER HEATER



DESCRIPTION

Coil & Hot Runner Heaters Are Precision-Engineered Heating Elements Designed For High-Performance Plastic Processing Equipment. These Heaters Are Optimized For Hot-Runner Injection Molding Systems, Extrusion Heads, Dies, And Specialized Industrial Applications Requiring Uniform, Concentrated Heat Transfer.

Built With High-Quality 316 Stainless Steel Outer Sheath, Brass/Aluminum/SS Liners, And Tightly Packed NiCr Resistance Coils, They Ensure Uniform Watt Density, Fast Heat Transfer, And Extended Service Life. An Optional Integrated Thermocouple Provides Accurate Temperature Control, Making Them Highly Reliable For Continuous Production Environments.

COMPONENTS

Component	Details
Outer Sheath	316 Stainless Steel for corrosion resistance and durability.
Inner Sheath	Brass, Aluminum, or 316 Stainless Steel liner for optimized heat transfer.
Heating Element	NiCr resistance coil tightly packed in high-purity MgO for uniform watt density.
Thermocouple Pocket	Integrated Type J or K (grounded/ungrounded) for direct temperature feedback.
Clamping Options	Custom clamps for secure mounting on various nozzle geometries.
Insulation	High-purity MgO insulation for electrical safety and superior thermal conductivity.

TECHNICAL SPECIFICATION

Parameter	Specification
Outer Sheath Material	316 Stainless Steel
Inner Sheath Material	Brass, Aluminum, or 316 Stainless Steel
Diameter Range	≥ 25 mm OD (custom sizes available)
Length Range	≥ 25 mm (standard up to 100 mm+)
Wall Thickness	10–12 mm
Temp. Capability	> 250°C continuous
Thermocouple Option	Built-in Type J or K (optional)
Voltage	120–480 V AC/DC
Power Density	Up to 20 W/cm ²

ADVANTAGES

- **Precision Heating** – Delivers accurate and uniform heat distribution to improve melt flow consistency.
- **Energy Efficient** – Low thermal mass reduces power consumption and ensures quick response.
- **Reliable Operation** – Integrated thermocouple options provide real-time monitoring.
- **Versatile Design** – Compatible with multiple nozzle shapes and manifold sizes.
- **Durability** – Built with stainless steel and high-quality insulation for extended service life.
- **Customization** – Available in multiple sheath materials, diameters, lengths, and clamping systems.

APPLICATIONS

- Hot-runner injection molding nozzles
- Extrusion head and die heating
- Multi-cavity manifold heating
- Hot stamping and riveting fixtures
- Plastic riveting and stamping presses
- High-precision industrial molding systems

FEATURES

- Uniform circumferential heating ensures balanced melt flow in hot-runner systems.
- Prevents plastic backflow for zero-defect runs.
- Low thermal mass allows quick startup and shutdown cycles.
- Robust construction with long operational life.
- Custom clamping options for all nozzle and manifold geometries.
- Optional built-in thermocouple for precise process control.
- Explosion-proof and CE-certified variants available for demanding industries.