

GURU KRUPA
INDUSTRIES

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**Mfg. All Type of Industrial Heaters & Thermocouples,
High-Density Cartridge, Tubular Heaters, Coil Heaters etc.**

CHAKAN PUNE : 410501

About Gurukrupa Industries:-

As the world turned in time over the new millennium, India saw a new chapter being written in Quality Heating with Gurukrupa industries . Being formed. In the year 2005 and the name of company is gurukrupa industries . We Started redefining quality in all type of industrial heater i.e. Tubular Finned Heater, Coil Heater, Infrared Heater, Mica Bend Heater, Ceramic Heater, High-density Cartridge Heater, D-Shape Heater Bobbin Heater, Strip Finned & Strip Heater etc. and All type of Thermocouples.

We have a very strong expertise in design, engineering and manufacturing of wide range of custom Built Band, Cartridge, Casting, Flexible, Strip, Tubular and Process Assembles heater, Infra-Red, Ceramic & cable Radiant heater's & K,J,R,S Type Thermocouples, RTD PT-100,300,1000, Sensors etc., are entirely devoted to the production of equipment built to individual customer's requirements.

We are continually developing new grades and designs on our own and in collaboration with our Customers. This work has given us a store of experience which we shall be pleased to share with you. The complete product range is conforming to the requirements of latest Indian Standards Specifications.



OUR RANGE OF PRODUCTS

- Band Heaters (Mica Band and Ceramic Band)
- Cartridge Heaters (Low Density and High Density)
- Cast-in Heaters (aluminium, GI, and Brass Casting)
- Flexible Heaters (silicon Heaters)
- Strip Heaters (Strip Fins Heaters)
- Tubular Heaters and Process Assemblies
- Infrared Heaters (Ceramic and Short wave IR Heater)
- Ceramic Heaters
- Cable Heaters
- Flange Heaters
- Thermocouples (K, J, S, T, R Type)
- All type of Industrial Sensors
- Deals in all make of Temp. Controller
- RTD, PT-100, 300, 1000





High Density Cartridge (SE-01)



D-Shape Heater (SE-02)



Tubular Heater (SE-03)



Infrared Heater (SE-04)



Bobbin Heater (SE-05)



Ceramic Heater (SE-06)



Mica Band Heater (SE-07)



Furnace Heater (SE-08)



Tubelor Finned Heater & Chemical Heater (SE-09)



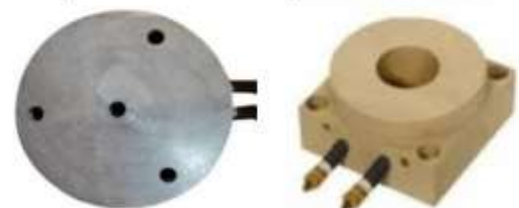
Strip Finned & Strip Heater (SE-10)



Coil Heater (SE-11)



Furnace Coils (SE-11 A)



Alumunium Casted Heaters (SE-12)

Thermocouples



(SE-36)



(SE-37)



(SE-38)



(SE-39)



(SE-40)



(SE-41)



(SE-42)



(SE-43)



(SE-44)



(SE-45)



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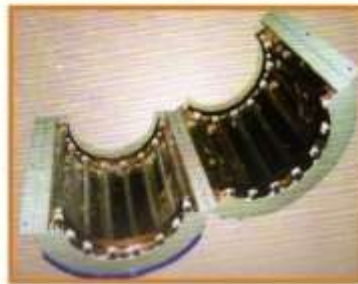


Short Wave Infrared Heaters (SE-13)

MEDIUM WAVE INFRARED HEATERS APPLICATION



Automobile Industry Paint Shop (SE-14)



Heating Tunnel (SE-15)



Textile Printing Ink Curing Module (SE-16)

MEDIUM WAVE QUARTZ INFRARED HEATER



MWIR Quartz Heater (SE-17)

FEATURES

- Quartz Infrared Heater is available in diameters of 8, 10, 12, 15 and 19mm
- Available in lengths from 300mm to 1500mm
- Can be used only in horizontal position
- Fitted with specially designed heating coil to ensure longer life
- Least maintenance required

TWIN TUBE MEDIUM WAVE INFRARED HEATER



FEATURES

- Operating temperature 900° C
- Using Ni-Cr or Fe-Cr-A1 resistance wire as filaments
- Response time around 1 minute
- IR wavelength between 2-4 M
- Average working life up to 10000 hours
- Gold or ceramic coating at rear side as a reflectors



(SE-19)



(SE-20)



(SE-21)



(SE-22)



(SE-23)



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(SE-25)



(SE-26)



(SE-27)



(SE-28)

Oil Bath



(SE-29)



(SE-30)



(SE-31)



(SE-32)



(SE-33)



(SE-34)

Oven



(SE-35)





HIGH DENSITY CARTRIDGE HEATERS

Cartridge heater often considered as component heater has a heating coil wound on a ceramic core and are cylindrical-shaped, heavy-duty joule heating element. Electricity flows through coil when a two or three phase voltage is applied. The electricity heats the coil and, subsequently, the cartridge sheath. The watt density (in watt/inch²) depends on the number of spirals or turns per inch. The sheath comes in contact with the surface being heated.



Insulation in the cartridge heater ensures that the heating wire never comes in contact with the sheath and protects the sheath from melting in case of any mishap. The leads that come out of the heater terminal have metal conduit, or silicon sleeves to protect from high temperature. Lead wires are often fibreglass or silicon rubber.

HEATING APPLICATIONS:

- Plastic Extruders * Heating Gases and Liquids * Shoe Machinery
- Medical Equipment * Hot Runner Moulds * Glue Guns
- Plastic Moulding * Packaging Equipment * Hot Stamping
- Moulds and Dies * Food Processing

MICA BAND HEATERS



Mica band heaters offer efficient and economical heating solutions to pipes and tubes that require external indirect heating. These heaters are used to heat-up the external surface of drums or pipes for a gradual heat transfer. A mica core surrounds the precisely wound heating element, producing a thin, efficient heater. The mica core is enclosed in a continuous corrosion resistant sheath and formed. All full mica band heaters are designed with closed ends to protect against contamination. The maximum sheath temperature is 800 F and is used mainly in plastic industries. Terminal boxes can be provided that protect terminations and also have the option of temperature controller to help regulate applied heat. Mica is used as it provides exceptional insulation, dielectric strength and heat transfer capability for long heater life.



CERAMIC BAND HEATER

Ceramic Band Heaters are medium-to-high temperature heaters that can deliver up to 1600 F (870 C). The heating element (Nichrome wire) is embedded in a flexible outer wall made of interlocking ceramic tiles, assembled like a brick wall. A ceramic fibre insulating mat and a stainless steel/ Aluminized Steel jacket cover this assembly. This makes them flexible, highly efficient, prevents heat loss and reduces electrical consumption by 20%.

An energized ceramic heater that operates at 1200 F internally will have around 400 F on its outside shell. These durable heaters have versatile configurations which allow selection of clamping mechanism, terminal styles, holes and cut outs and perforations. Uniform heat distribution is an added advantage of ceramic band heaters. Limitations on the width of these heaters within a certain incremental range of sizes, is due to ceramic tiles that are available in specific lengths. Ceramic Band Heaters afford customers a means to heat large cylinders from intermediate to high temperatures without concern of failures due to “Hot-Spotting”. A layer of thermal insulation reduces ambient heat loss and power consumption.



COIL HEATERS

Coil heaters are an advance concept of thermal engineering, is also known as high performance tubular heaters or cable heaters. The Basic construction of these heaters consist of compacted Mgo, high temperature resistance wire and chrome nickel steel tube. These heaters can be constructed with or without built in thermocouples.



FEATURES & BENEFITS

- A very wide contact surface results in exceptionally high levels of thermal conductivity towards the body that needs to be heated.
- Heavy-duty construction results in very high resistance to mechanical shocks.
- Optimal insulation results in very long life duration
- Optional built-in thermocouple for high-resolution temperature measuring (J-type standard, K-type on request)
- Operation temperature up to 750 C (1300 F)

HEATING APPLICATIONS:

- Hot Runner Nozzles & Bushings
- Tube Extrusion
- Plastic Forming Punches
- Hot Runner Distribution Plates
- Semiconductor Manufacturing and water processing
- * Small Manifold Heating
- * Packaging Equipment
- * Hot Metal Forming Dies &

TUBULAR HEATERS

Known for its versatility, ruggedness and dependability, tubular heaters can virtually be factory-configured to suit a variety of industrial heating applications. Tubular elements are frequently regarded as the foundation of all heating elements. The basic design consists of a resistance wire/coil precisely centered in a metal sheath. This wire/coil is surrounded by magnesium oxide to provide efficient heat transfer from coil to heating medium. Diameters are varied to give customized design and adjustable watt densities for best performance and long life. Bending radius is carefully chosen so as to give optimum performance. Tubular heating elements perform heat transfer by all three modes (conduction, convection and radiation). They are available in both single ended and double ended designs.



HEATING APPLICATIONS:

- Plastic Industry * Packaging Equipment * Moulds & Dies
- Medical Equipment * Shoe Machinery * Casting Industry
- Plastic Moulding * Laboratory Industry
- Heating Gases and Liquids * Apparatus Construction

THERMOCOUPLES & RTD'S

A thermocouple consists of two wires made of different materials that, due to the thermoelectric effect, produce a voltage from which the temperature can be derived. Depending on the desired application temperature, various thermocouples are available to choose from.



- Type J iron/cupro-nickel
- Type L iron/cupro-nickel
- Type K nickel-chromium/nickel
- Type L nickel-chromium/nickel

Following thermocouple types are also available from us on request:

- Type E,R,S, and T
- Type N
- Type B
- Type U

FEATURES & BENEFITS:

- > Higher measurement accuracy than thermocouples
- > Optimum long-life stability

Why us-

- We offer quality products.
- We have a strong infrastructure and a competent team.
- Our products are safe, efficient and cost-effective to us.
- We can also manufacture customized products as per the specifications.
- We assure expedite delivery.
- Optimum utilization of resources.
- Ensuring safety at the work place.





Gurukrupa Industries



Our clients :-



IndianOil



below - the - line solutions...



OFFICINE MARIO DORIN SINCE 1918
DORIN INNOVATION



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Gurukrupa Industries



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