



# G.V.INDUSTRIAL HEATERS

Manufacturers of Industrial Heaters & Thermocouples





# PROFILE

G.V.INDUSTRIAL HEATERS has been a pioneer in the manufacture of products that meet the most challenging applications. Established in the year 1989, G.V.Industrial Heaters has been specializing in the production of electrical heating elements for more than 25 years.

Through extensive research and development, has introduced new technologies like tubular heaters, cartridge heaters and thermocouples which help to achieve a greater flexibility in both design and elements to suit most of the applications to work with these equipments.

G.V INDUSTRIAL HEATERS has successfully supplied heaters for plastics and rubber industries like Injection & Blow molding machines, different types of Extruder machines and Food Processing machines and for many more application.

To meet the accelerating and ever changing requirements on hundreds of diversified applications in a wide range of industries, our team of experienced professionals, heater applications and customer service disciplines, provide you with winning combination for solving your specific heating process and temperature control requirements.

To accomplish this we share our technical and practical experience with the customer, suggest suitable heater to their application. We design, develop and manufacture the heater suitable to their requirement having proper watt density, which will save their power, machine downtime and increasing productivity.

Our independent and self-sufficient industry unit is well equipped with advanced technology based production machinery equipment and dedicated services of experienced professionals. These combined facilities available with us has helped us give a quality output and this characteristic has established us well in the national and international market.

G.V.INDUSTRIAL HEATERS has established a well-known and prominent position in the market for quality work, durability and good customer service and is now bound to undergo significant expansion.



# CERAMIC BAND HEATER



## FEATURES:

**GV's CERAMIC BAND HEATERS** are versatile & widely used throughout the industry, In all types of plastic(s) processing industry is to heat the barrels(cylinders) by ceramic band heater

Energy conservation is achieved by using a 1/4" thick ceramic insulating blanket, reducing power consumption by 25 to 30%

Higher Watt densities provide higher operating temperatures, Maximum sheath temperature up to 800° C and Maximum Watt density up to 50 Watts/ square inches

Use of special ceramic material "steatite" with high thermal conductivity and helical heating coil made of high quality nickel chrome resistance wire inserted in the holes of Ceramic steatite insulators.

## SPECIFICATIONS:

Dia	:	65mm and up
Width	:	38mm and up
Voltage	:	Up to 440V (single or three phase)
Watt Density	:	Up to 50W/Sq.In.
Sheath	:	Stainless Steel 304
Clamping Arrangement	:	M6 Fastener
Thickness	:	12mm



# CERAMIC JACKETED HEATER



## FEATURES:

**GV's CERAMIC JACKETED HEATERS** are specifically designed and engineered to meet the ever increasing demand for energy conservation and to improve operation efficiency

Up to 30% of power consumption reduces and outer insulation jacket conserves energy

Note: In case where high watt densities are required, it is important that all heaters should be used with appropriate, approved and precise temperature control/sensor devices.

The model is designed and constructed with special effective dual insulation which reduces the rate of heat radiation/loss, resulting swift rise in the temperatures of the object to be heated

Uniform heat distribution throughout the barrel, Good shine of your finished products and increases productivity

## APPLICATION:

Plastics processing machinery

Rubber machinery

Injection molding

Blow molding equipment

Extruders

Hot runner bushing





# MICA BAND HEATER



## FEATURES:

**GV's MICA BAND HEATERS** are widely used to heat the molds, dies, nozzles and especially to heat the cylinders (barrels) on all types of plastic(s) processing machinery

The mica heater is most economic and provides excellent dielectric strength

Maximum sheath temperature up to 900° F, Maximum Watt density up to 25 Watts/square inches

Mica Band Heaters design is the result of many researches, development, and testing for a reliable mica insulated band heater that can perform at higher temperatures up to 450° C

It is essential to process of high temperature resins and providing long efficient service necessary for high productivity of plastic extruders, injection and blow molding machines

## SPECIFICATIONS:

Dia	:50mm and up
Width	:25mm and up
Voltage	:Up to 440V
Watt Density	:Up to 25W/Sq.In
Sheath	:Stainless Steel 304
Clamping Arrangement	:M6 Fastener & M6 Nut Bolt
Standard gap when tightened	:3/8" to 1/2"



# MICA JACKETED HEATER



## FEATURES:

**GV's MICA JACKETED HEATER** is an power saver heater to meet the accelerating and ever increasing demand for heavy heating with the low power consumption

The built in insulation is specially formulated for the excellent heat reflection & performance capabilities

Flexible one or two piece design makes installation faster & easier. Its flexible construction also allows the heater to be opened to the full diameter of the cylinder

The most Common Square, Rectangular and L shaped mica heaters can be manufactured as per your specifications in one or two piece units. Available with leads or terminals

**GV's** exclusive method of designing maximizes the element wire coverage of the heated area. This results in uniform heat distribution and longer heater life

## APPLICATION:

Plastic processing machinery

Injection molding machine

Extruders

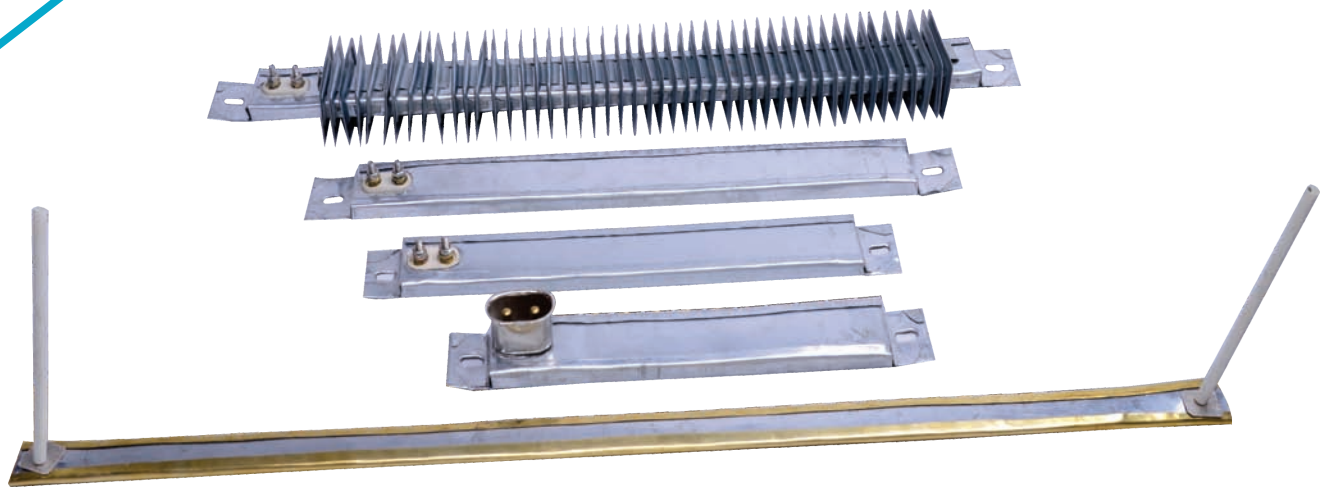
Drums and holding tanks

Food warmer containers

Vending machines



# STRIP HEATERS



## FINNED STRIP HEATER

**GV's Strip Heaters** are made of helically wound resistance coil evenly stretched and strung through series of ceramic insulators.

The element assembly is electrically insulated and covered by metal sheathing. Nickel Chrome resistance wire and Screw or wire lead termination of customized.

Finned strip heaters are extremely efficient and dependable as a heat source for hundreds of industrial and commercial applications.

The fins have been specially designed to provide maximum surface contact for good heat dissipation into the finned cross sections, thus resulting in rapid heat transfer to air

**FEATURES:**

## CERAMIC INSULATED STRIP HEATERS

### FEATURES:

**GV's Ceramic Insulated Strip Heaters** have proven to be extremely efficient and dependable for surface heating, air heating & radiant heating applications

Ceramic Strip heaters are capable of operating at sheath temperatures up to 1200°F (650°C)

The basic design consists of helically wound resistance coil evenly strung through specially designed ceramic insulators; Ceramic strip heaters are available in different sizes and in a variety of termination styles to fit most of your requirements.

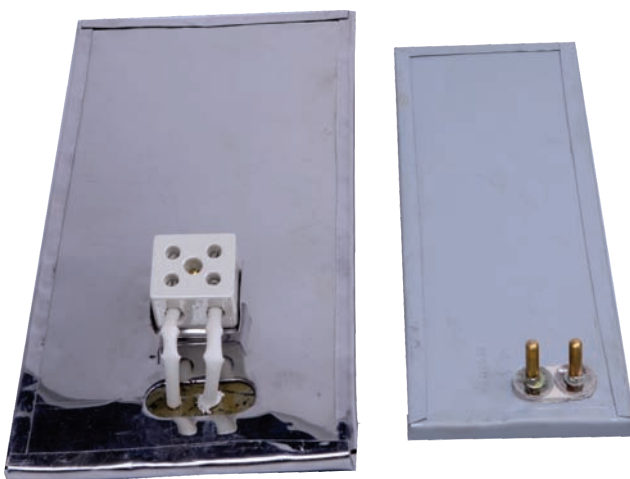
### APPLICATION:

Drying Ovens

Air heating

Space heaters

Dies and molds





# QUARTZ INFRARED HEATER



## FEATURES:

We manufacture and supply superior quality medium wave infrared heater that consists of a helically wound resistance coil housed in a pure vitreous silica fused quartz tube.

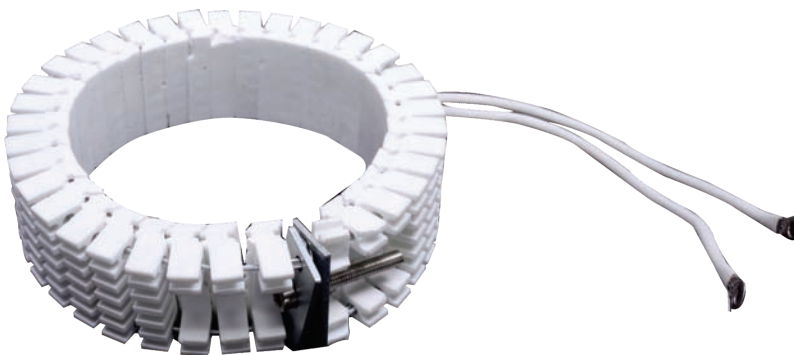
The ceramic caps are tightly fastened to the quartz tube with high temperature cement that allows the quartz to breathe.

Quartz Infrared Heater is available in diameters of 8, 10, 12, 15 and 19 mm and available in lengths from 300 to 1500 mm, can be used only in horizontal position.

## APPLICATION:

- |                           |                            |
|---------------------------|----------------------------|
| Shrink Packaging Machines | Thermoforming              |
| Lamination Industries     | Plastic forming            |
| Drying Textiles           | Drying lacquers and paints |
| Curing Rubber             |                            |

# EFFICIENT AIR COOLED CERAMIC HEATER



## SPECIFICATIONS:

- |                      |   |                  |
|----------------------|---|------------------|
| Dia                  | : | 100mm and up     |
| Voltage              | : | Up to 440V       |
| Watt Density         | : | Up to 45W/ Sq.In |
| Temperature          | : | Up to 1400 °C    |
| Clamping Arrangement | : | M6 Fastener      |

## FEATURES:

GV's heating and cooling combination heaters are used on extruders and blow molding machines.

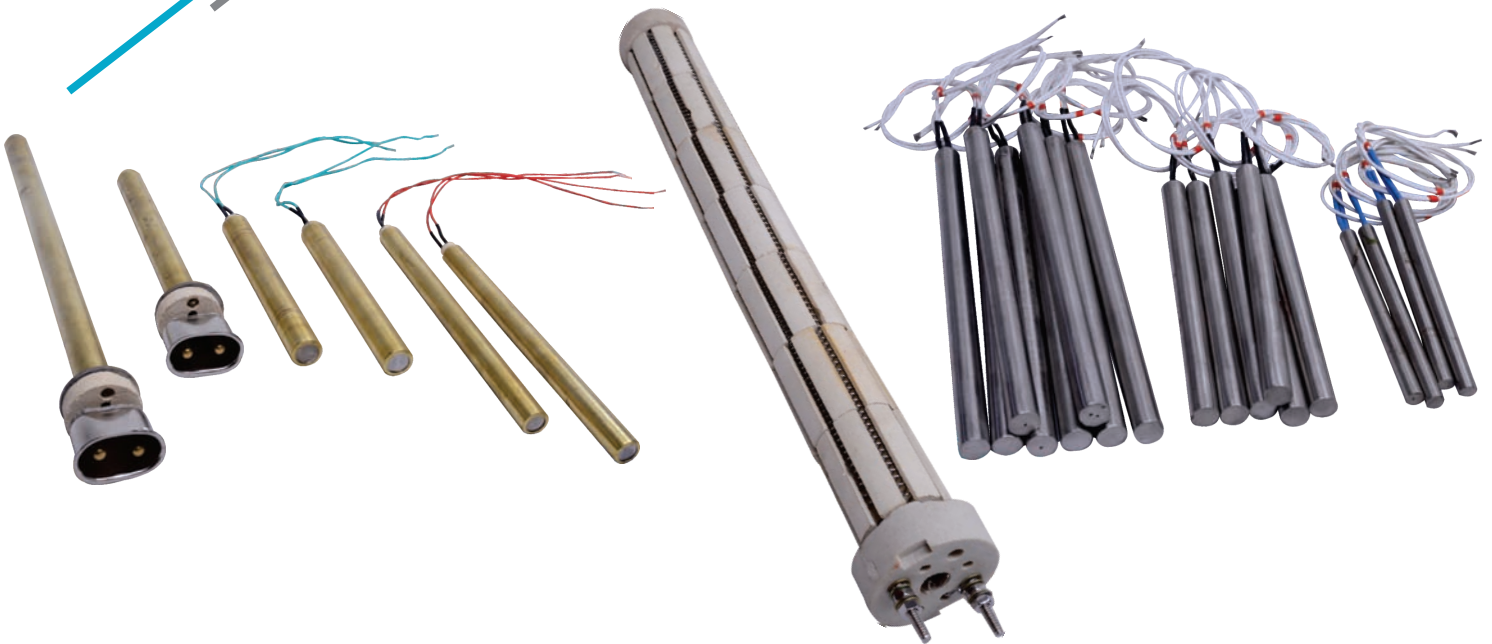
The heater band is covered with blower for mounting the blower. Advantages of air cooled operation includes lower cost, easy replacement, low maintenance, no leakage problem and uniform temperature control

It is 60% open by perforated metal sheet which ensures maximum surface exposure for better cooling, specially designed internal air distribution channels and exhaust vents





# CARTRIDGE HEATERS



**GV's** Cartridge heaters of Low density and High density cartridge heaters are among the most versatile and widely used cartridge heaters throughout the industry for many more applications.

## **FEATURES:**

**GV's Cartridge Heaters** are manufactured in a complete range of standard physical dimensions, electrical ratings and lead termination

Widely used for localized heating in plastic injection molds, dies, hot plates, platens, packing machinery and many more applications.

The use of high purity MgO insulation assures high dielectric strength and fast heat transfer efficiency.

Nickel-Chrome resistance wire is precisely wound on a high purity magnesium oxide core placing the resistance wire to the inside sheath as possible

This provides excellent heat transfer and results in highest possible heat densities and longer heater life, where sheath temperatures exceeding 650°C

Swaging increases the high thermal conductivity and uniform heat transfer, Shock and vibration resistant.

## **APPLICATION:**

Heat sealing equipment

Shoe machinery

Packaging and laminated equipment

Food processing

Labeling machines

Plastic extruders

Heating Gases and Liquids



# TUBULAR HEATERS



## FEATURES:

**GV's Tubular heaters** are highly adaptable to most applications, where electrical heating is required. They can be used in their straight form or bent into various shapes.

These versatile heating elements are available in SS304, SS321, SS316, SS310, Copper, Inconel and titanium outside sheath. 80/20 Nickel-Chrome wire to delivery an even heat distribution.

High grade MgO (magnesium oxide) is used as internal insulation and best heat transfer. High thermal conductivity, dielectric strength and longer heater life.

It can be mounted in any positions. Available in wide variety of shapes, diameters and ratings. Customizable based on the functional requirement.

## APPLICATION:

Ovens & dryers

Paper cup industries

Paper plate industries

Packaging Industries

Food processing industries



# FINNED TUBULAR HEATERS



## FEATURES:

**GV's TUBULAR HEATERS** manufactured in wide range dimensions and power ratings. It can be designed as per the customer's specifications and the readily available shapes are straight form, U shape, M shape. They are available with fins and without fins. Air heaters are designed and built to meet the requirements.

## APPLICATION:

- Maintaining the warm air gaps between equipments
- Ovens and Dryers
- Plastic Processing machinery
- Medical equipments

# WATER & OIL IMMERSION HEATER

## FEATURES:

**GV's Immersion heaters** are highly adaptable to water, oil and chemical tanks. They can be designed as per the customer specification and most commonly used in "U" shape and spiral type.

In the Water Immersion Heater has an outer sheath of the heating element is SS304 and SS316 with Nickel coated and it is available in standard brass flanges of 1 inch, 1.25 inch, 1.5 inch, 2 inch and also designed as per the customer's specifications.

In the Oil Immersion Heater has an outer sheath of the heating elements is SS304 and it is available in standard cast iron flange 2.5 inch rounded or square as per the customer's requirement.



## APPLICATION:

- |                       |                     |
|-----------------------|---------------------|
| Water Heating         | Oil heating         |
| Storage tank          | Chemical industries |
| Domestic Applications | Plating industries  |





# THERMOCOUPLES



## FEATURES:

**GV's Thermocouples** are specially made under stringent quality conditions. We offer Thermo Couples of various types including J, K, R, S, and N.

These are used to receive the signal from the heating area and are directly proportional to the rise of temperature. To form one junction, these two dissimilar metals are joined and then to produce milli volt which is directly proportional to the rise in temperature.

Available for all possible applications and it can be made to customer's specifications. Types- J, K, RTD are supplied with accessories and available in Plain, Bayonet, Washer, and Ring types.

## APPLICATION:

- Plastic Processing machinery
- Water and Oil Heating Appliances
- Packaging machineries
- Heating Chemical Solutions
- Injection and Blow Molding
- Extruders & Many other applications





# TEMPERATURE CONTROLLERS AND TIMERS



Backed by our technological excellence and professional manpower we are able to manufacture and supply digital temperature controller. Available with heat control and cooling controllers our temperature controllers offer accurate measurement of temperature.

Available in digital and analog versions and it made to DIN Standards. Available in different calibration ranges like J, K, T, E, R and PT-100. Non-Volatile memory, Self-diagnosis function.

### APPLICATION:

Plastic industries | Rubber industries & Wood industries | Food processing Industries  
Textile industries | Petro Chemical Industries etc.,

## AC DRIVES



1 x 200-240 V AC 0.18-2.2 kW

3 x 200-240 V AC 0.25-3.7 kW

3 x 380-480 V AC 0.37-22.0 kW

VLT® Micro Drive is a genuine VLT® frequency converter with unsurpassed reliability, user-friendliness, condensed functionality, and extremely easy to commission. Terminal numbers are named in the same manner as in the rest of the VLT® family.

### APPLICATION:

Textile industries | Pulp & Paper Machines  
Packaging industries | Food & Beverage Conveyors  
Plastics & Rubber Extruders | Material Handling Conveyors





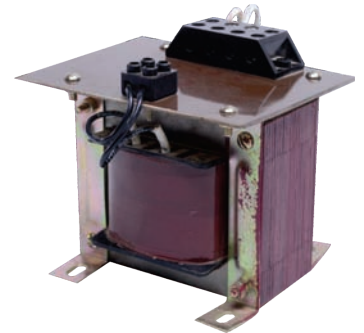
# INDUSTRIAL APPLIANCES



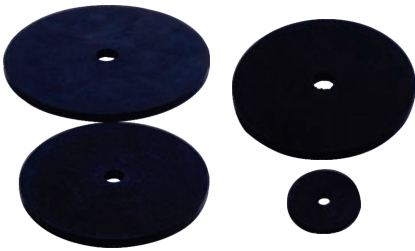
**BLOWER**



**CONTACTOR**



**TRANSFORMER**



**RUBBER DISK**



**SILICON RUBBER**



**ALUMINUM WASHER**



**CONTROL BOX & HORN BOX**



**FIBER GLASS WIRE**



**NICHROME WIRE**



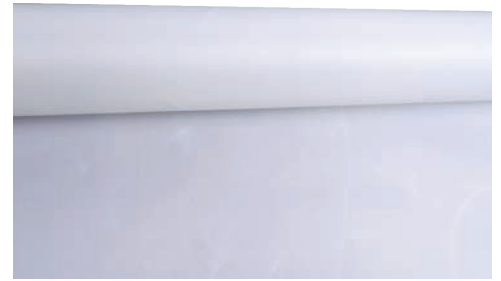
# INDUSTRIAL APPLIANCES



**TEFLON WIRE**



**TC WIRE**



**TEFLON CLOTH**



**SWITCH BOX 2&1**



**'B' CONNECTORS**

## INDUSTRIAL HEATERS

Ceramic Heaters  
Ceramic Jacketed Heaters  
Mica Band heaters  
Mica Jacketed Heaters  
Strip Heaters  
Efficient Air Cooled Ceramic Heaters  
Standard Cartridge Heaters  
High Watt Density Cartridge Heaters  
Tubular Heaters  
Finned Air heaters  
Water & Oil Immersion Heaters  
Thermocouples and Controllers  
AC Drives

## APPLICATIONS

Plastic Processing Machinery  
Injection Moulding Machines  
Blow Moulding Machines  
Plastics Extruders & Dies  
Cylinder Heating Applications  
Food Processing Industry  
Leather Industry  
Moulds and Dies  
Chemical Industry  
Hot Plates and Ovens  
Rubber Industry  
Aerospace Industry  
Pharmaceuticals Industry



## G.V.INDUSTRIAL HEATERS

Manufacturers of Industrial Heaters & Thermocouples

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