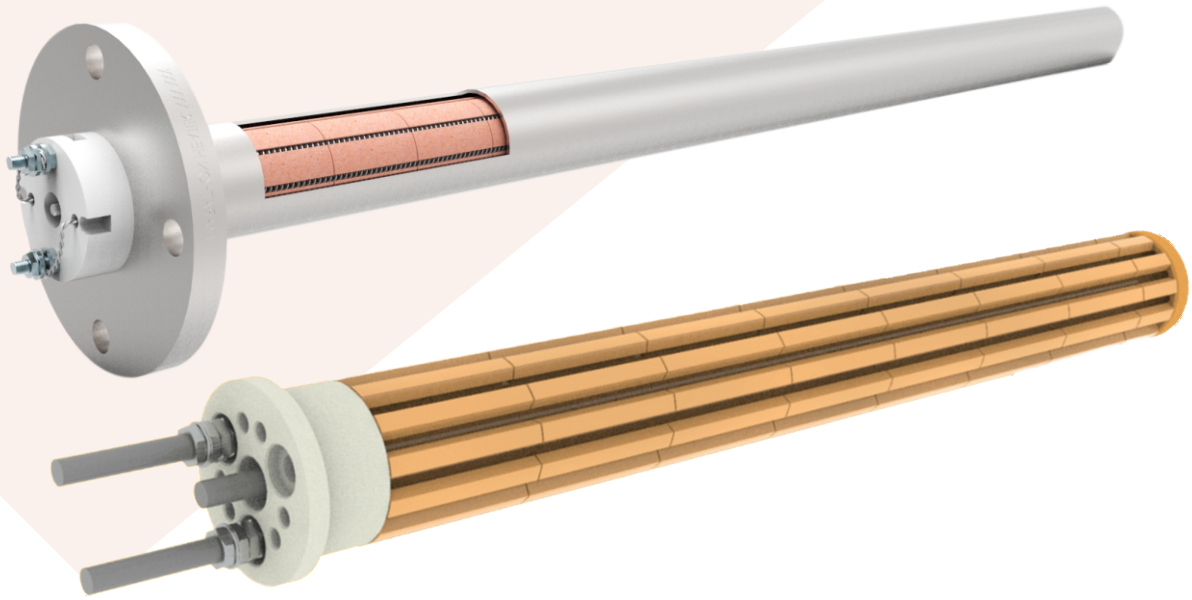
nobleheat™

Heating Technologies

AN ISO : 9001-2015 CERTIFIED CO.



BOBBIN IMMERSION HEATERS

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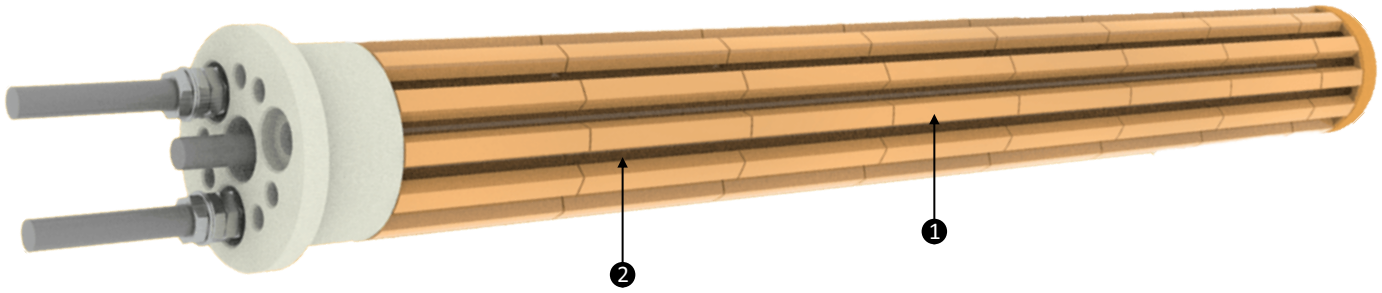
NOBLEHEAT create ceramics For any voltage or wattage within manufacturing constraints, bobbin heaters are made from high temperature factory insulators in a range of diameters and lengths. Both sheathed and non-sheathed materials are used to make bobbin warmers.
Stainless steel, Inconel alloys, and mild steel plated with nickel are among the materials used for the sheath. Resistance wires are attached to a terminal block at one end and supported on refractory insulators. For precise temperature sensing, a thermowell or additional controls may be included. Although they can be expressly designed and built for vertical installation, they are typically created for horizontal placement. designed to operate at any voltage or wattage within the parameters of production. The components of these bobbin heaters are partially exposed to the air to improve heat transfer. Additionally, it provides a sizable heated area for the liquid or semi-solid to be heated when placed inside a radiant or immersion tube.

Construction

1. A few blocks of refractory ceramic were put together to reach the necessary length.
2. For optimal longevity, the Nichrome resistance wire heating element is put into the ceramic blocks and uniformly wrapped to distribute heat evenly.



Technical Details

Power	Upto 12kw
Watt density	1 to 10 W/cm^2
Temperature range	Upto 600°C
Heating element	Ferritic alloys wire mara FeCrAl and non ferritic wire NiCr 80-20,NiCr 70-30
Bobbin size	Standard: 25,30,36,42,45,57,93 other customize size available
Heater parameters	Customized – power rating, voltage, resistance, length, diameter and other dimensions
Radiant tube/immersion tube	Stainless steel SS grade,incoloy,cast alloys
Thickness of tube	1.5 to 3mm
Lenght of tube	300 to 2800mm customised
Terminal box	MS, IP 54 standard, IP 66 water proof terminal box
Control	Thermocouple, RTD, thermostat for temperature controlling

Benefits

- Chemicals, water, etc.
- Offer for materials that are semi-solid, such as bitumen, oil, fats, and wax.
- It is appropriate for indirect heating of gases and liquids and can be fixed or replaced by inserting it into a pocket or protective tube in the process tank.

Utilization

- Ideal for furnace heating at low temperatures up to 600°C.
- To satisfy the unique needs of each customer, a large variety of lengths, voltages, and powers are available.
- Easy and inexpensive to install.
- simplicity in upkeep and repair.
- Non-polluting and versatile.
- Energy-efficient because the solution contains all of the heat produced.

If you have specific design needs or want to discuss a custom project, please reach out to us.