

FURNATEMP

FURNATEMP METATEK INDIA PRIVATE LIMITED
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FURNATEMP INSULATION AND HEATING ELEMENT DETAILS

- The furnace will be lined first with ceramic fiber back up insulation comprising of 64, 96 and 128 grade of ceramic fiber. The hot face insulation will be with FURNATEMP- segment modules of 100mm or 125mm standard thickness. The total insulation thickness shall be 250mm.
- The heating elements will be made from FeCrAl / NiCr wire or strip. The material is designed to have higher creep and elongation strengths at elevated temperatures coupled with better oxidation properties, which result in extended life of the heating elements. The elements will be designed in the ROB to give higher radiation compared to other element designs and easy maintenance. The other advantage of FeCrAl / NiCr wire is that they can be loaded with higher surface load, which means that there is a greater difference between element and furnace temperatures and this allows the heat transfer rapidly.
- The FURNATEMP - blocks are vacuum-formed ceramic fiber modules. The blocks have dense surface, the hot face being harder than the cold face and the core of the material being relatively loose fibers. This gives rigidity of the blocks to carry its weight, elements supporting system and the heating elements over long periods of time and severe thermal cycling.
- The blocks are very easily mounted to the furnace shell with the help of studs & bolts. The studs are made of the S.S.310 grade rods. The mounting assemblies in the FURNATEMP- modules are to a depth of 25 - 30 mm from the hot face, and will be covered with fiber plug, there by not exposing the stud to the element temperatures.

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FIXING ARRANGEMENT OF BACKUP INSULATION & FURNATEMP MODULE

The FURNATEMP- segments are installed using a system consisting of a threaded pin that is bolted to the furnace shell. The backup insulation, the ceramic fiber shall be installed with the hanker & washer and the rigid FURNATEMP - boards shall hold the backup insulation rigidly with the help of bolts(S.S.310).



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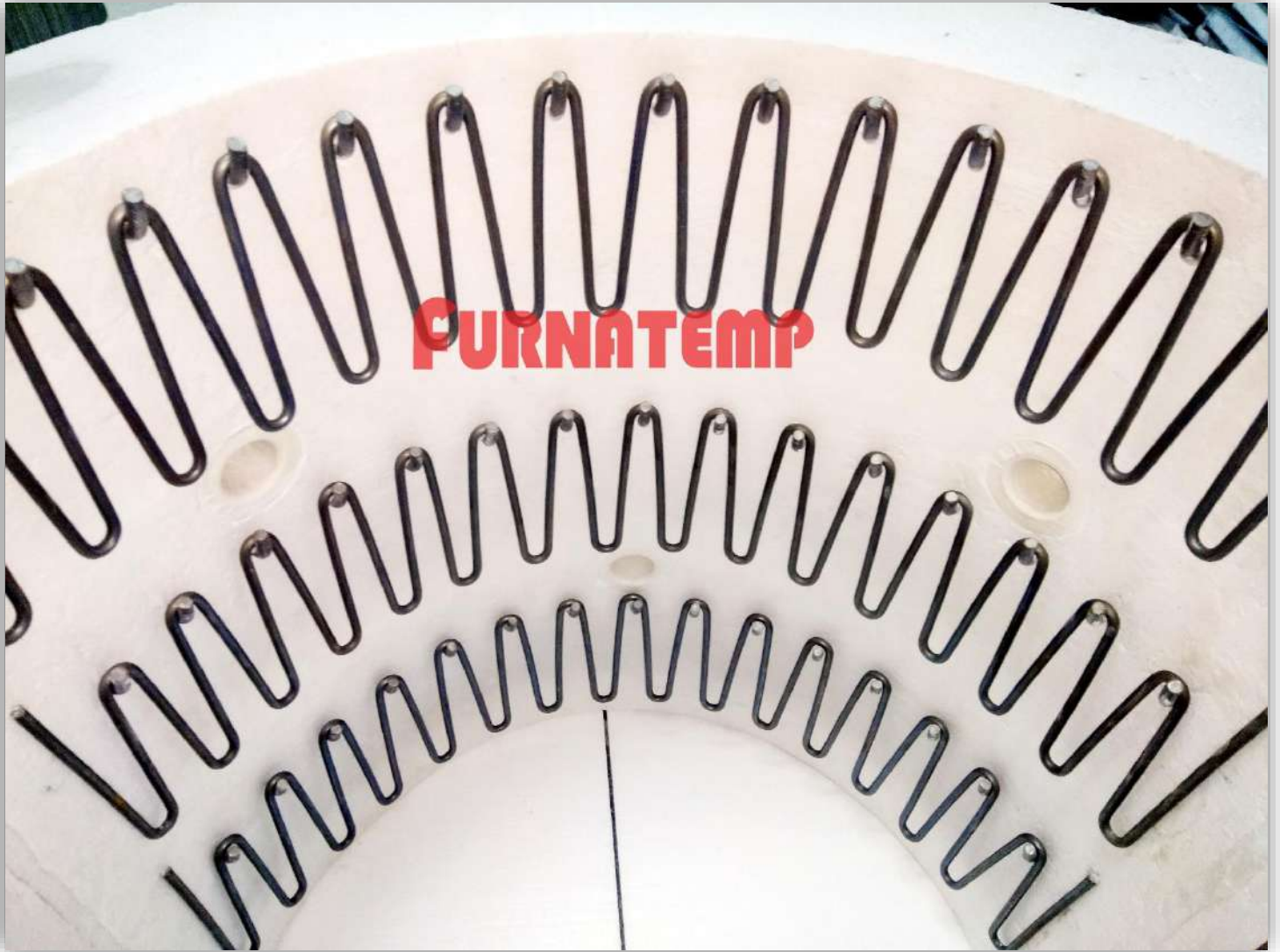
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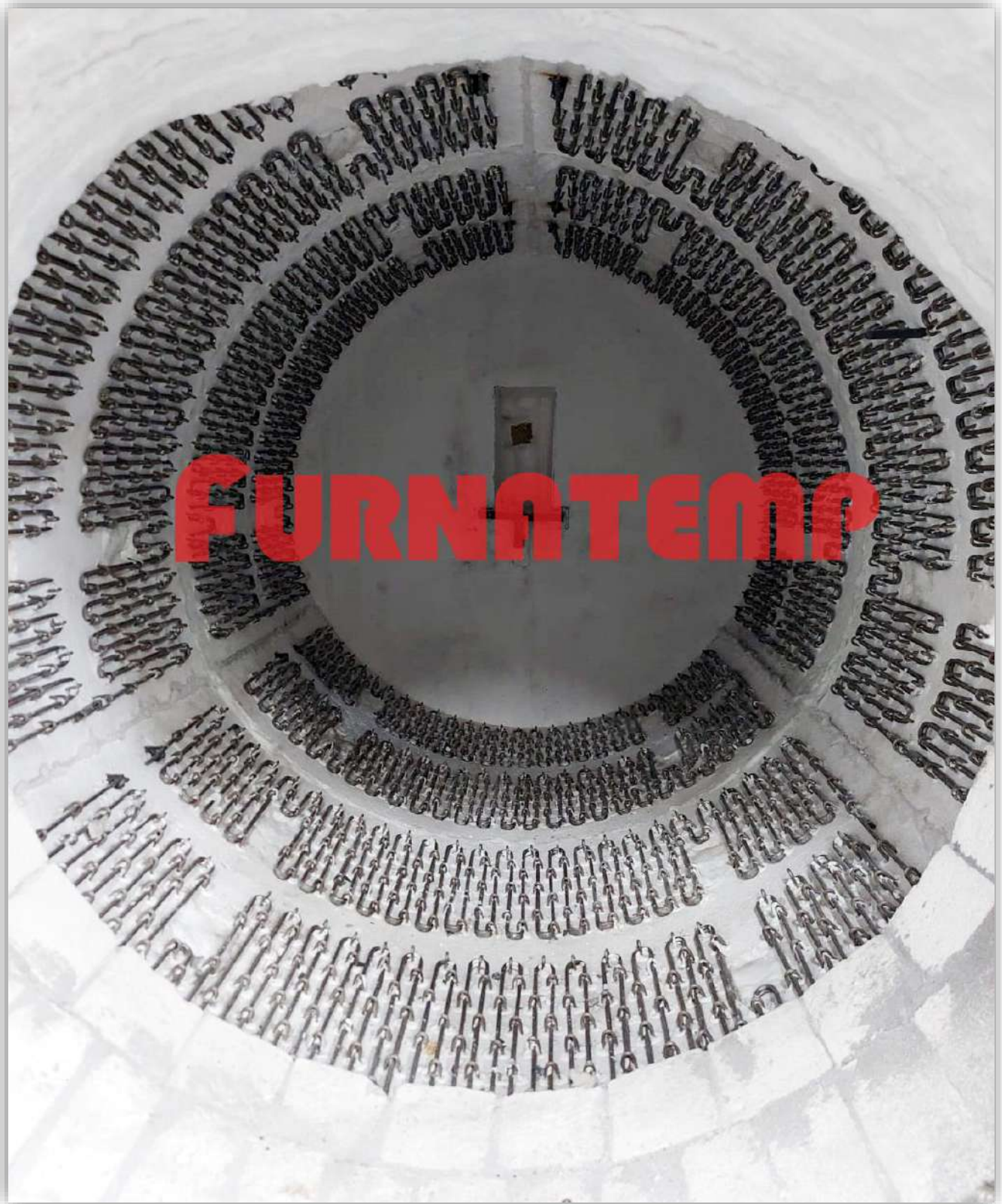
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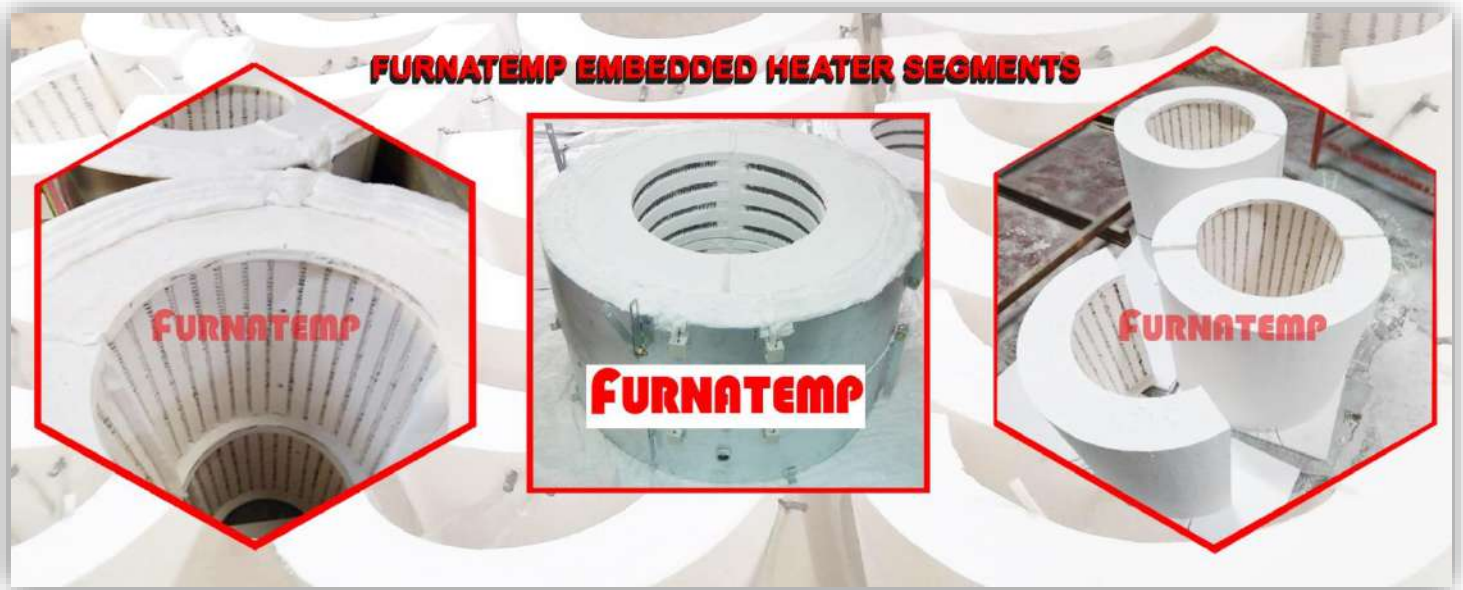
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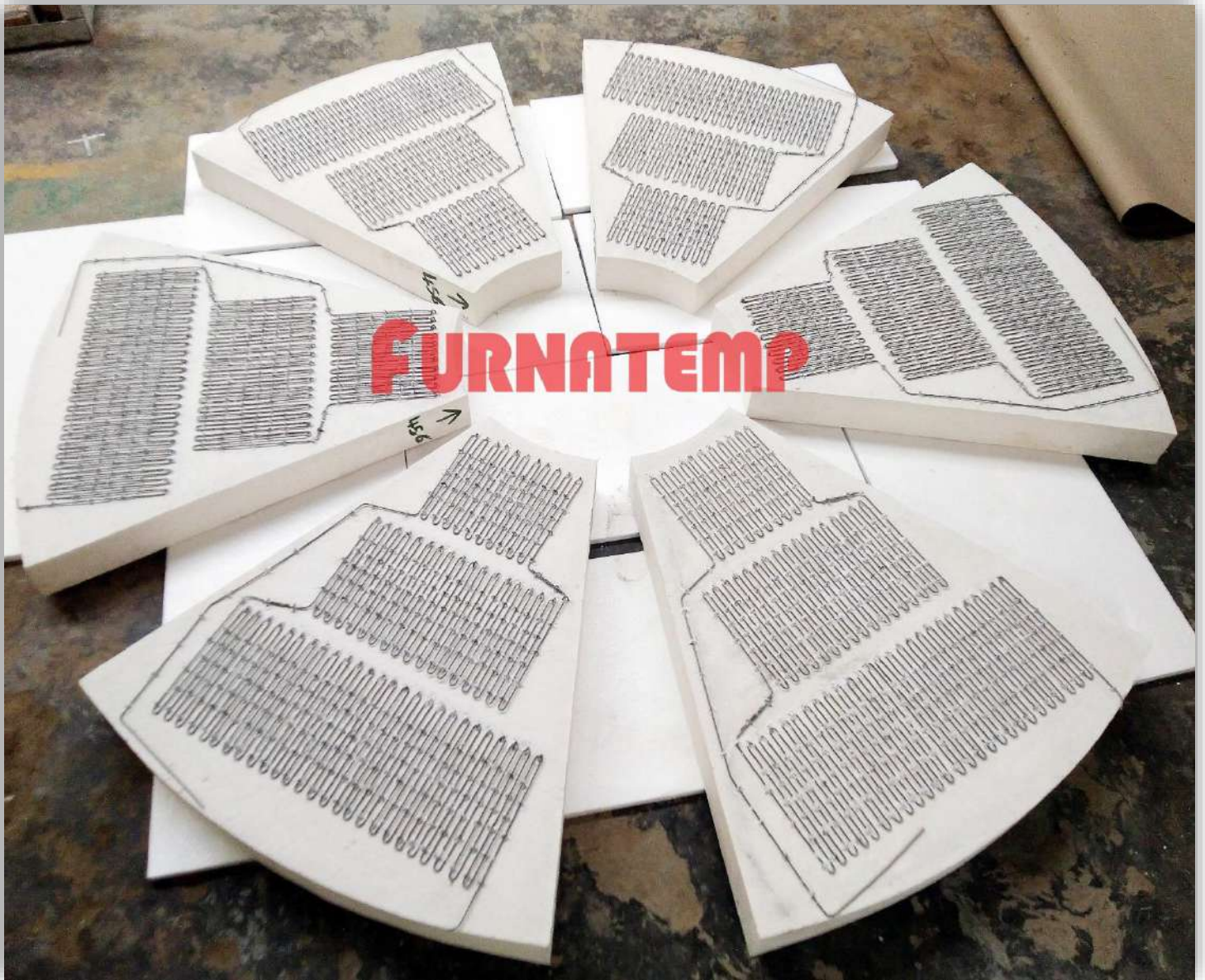
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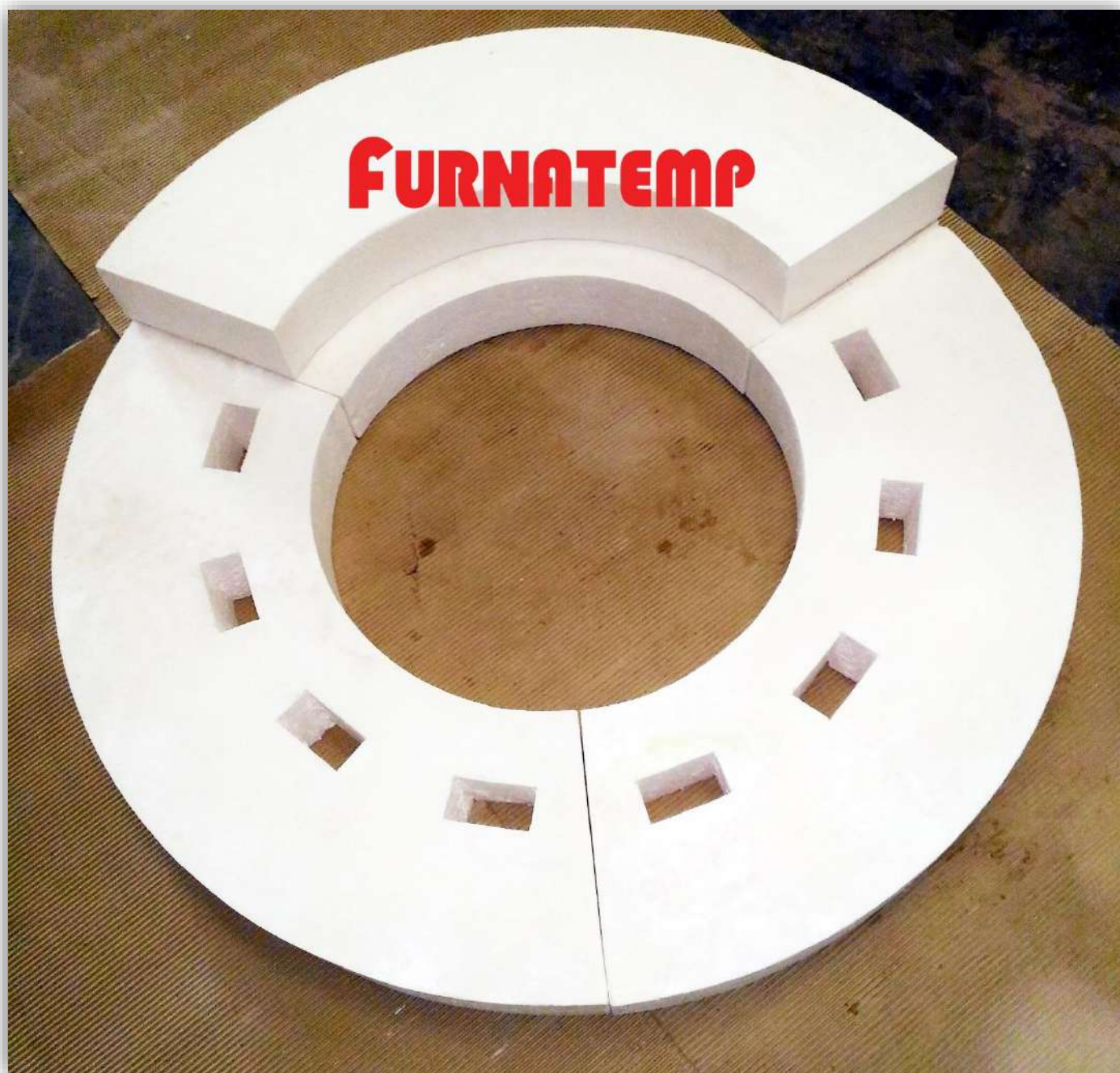
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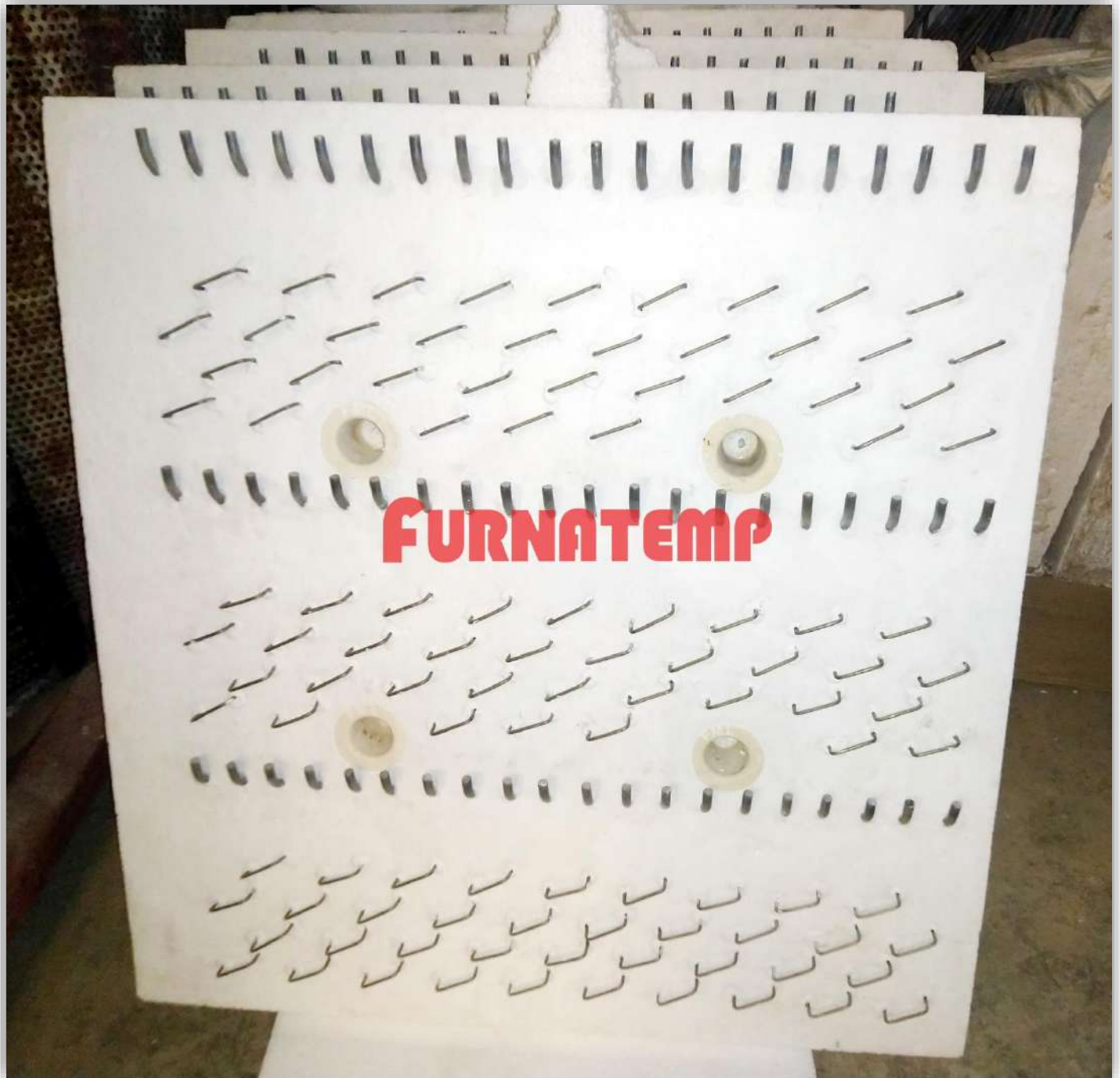
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BUNDLE ROD HEATERS

Bundle rod heater consists of circular or star shaped ceramic discs that hold the heating elements. It is designed for long life and maintenance free operation. The hot zone and cold zone lengths can be adjusted as per the specific requirement, Bundle rod can be used with or without radiant tube. Due to innovative design, Bundle rod heaters deliver a much higher power than conventional cartridge heaters. In combination with radiant tubes, a system is created which delivers high power, is rugged, versatile and needs low maintenance. Designed & manufactured in low voltages for faster heating in order to achieve temperatures quickly, these heaters can be mounted horizontally or vertically. Either NiCr alloy or FeCrAl alloy can be used as heating element.

SUPERIOR POWER OUTPUT

Bundle rod elements, with a higher power output, leads to major saving in cost and maintenance. Also when combined with radiant tubes, they give highest power rating (up to 100 kW) as compared to any other heater.

EASY INSTALLATION

Due to its robust and versatile design, bundle rod elements are easy to install and replace. Compatibility with radiant tubes allows installation to be either horizontal or vertical depending on the application. Easy repair and high performance gives it an edge over others. Custom designed for the voltage and wattage required, bundle rod heaters are used in heat treat furnaces and die casting machines to molten salt baths and incinerators. With radiant tubes they can be used in high velocity convection furnaces and sealed quenched furnaces.

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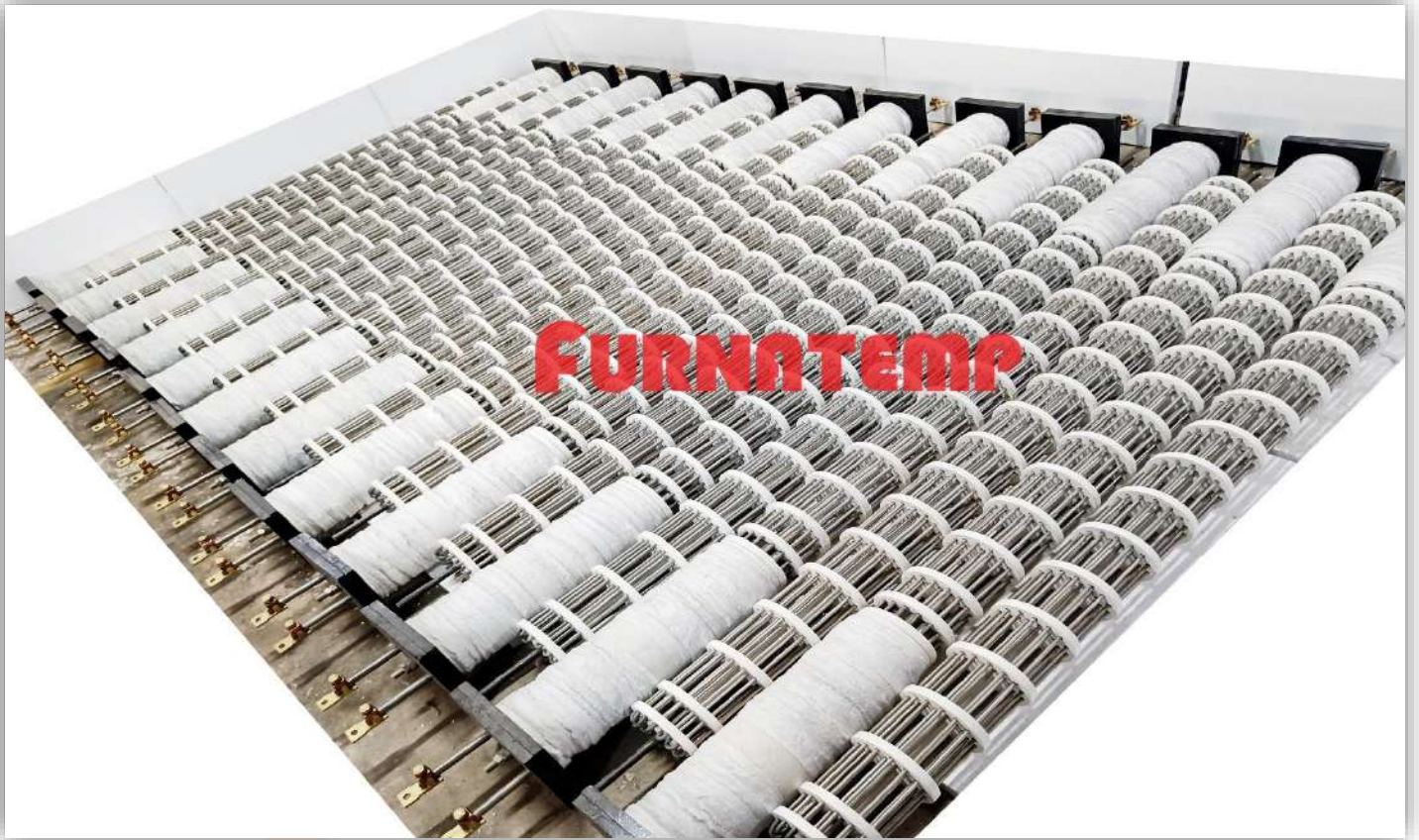
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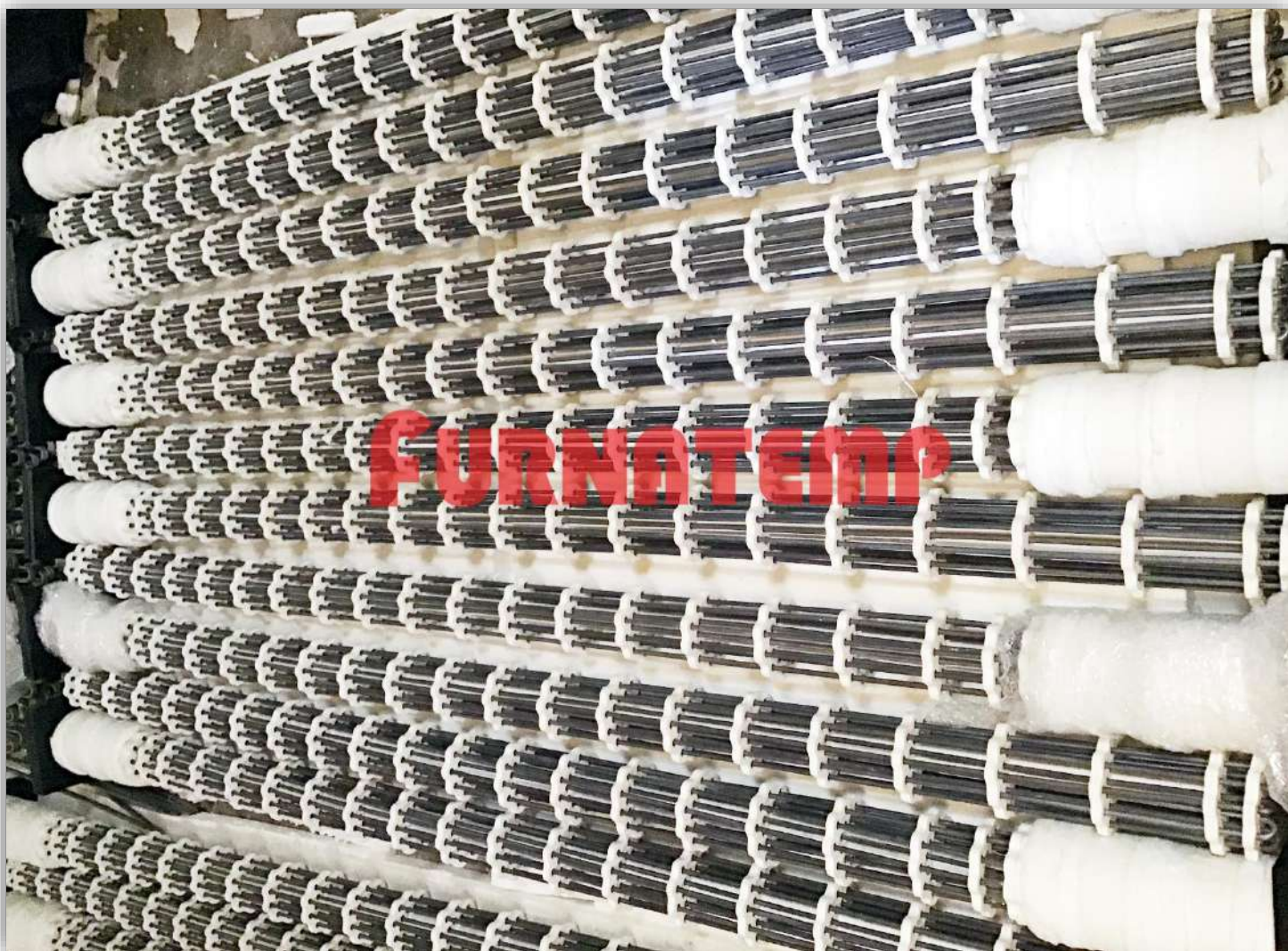
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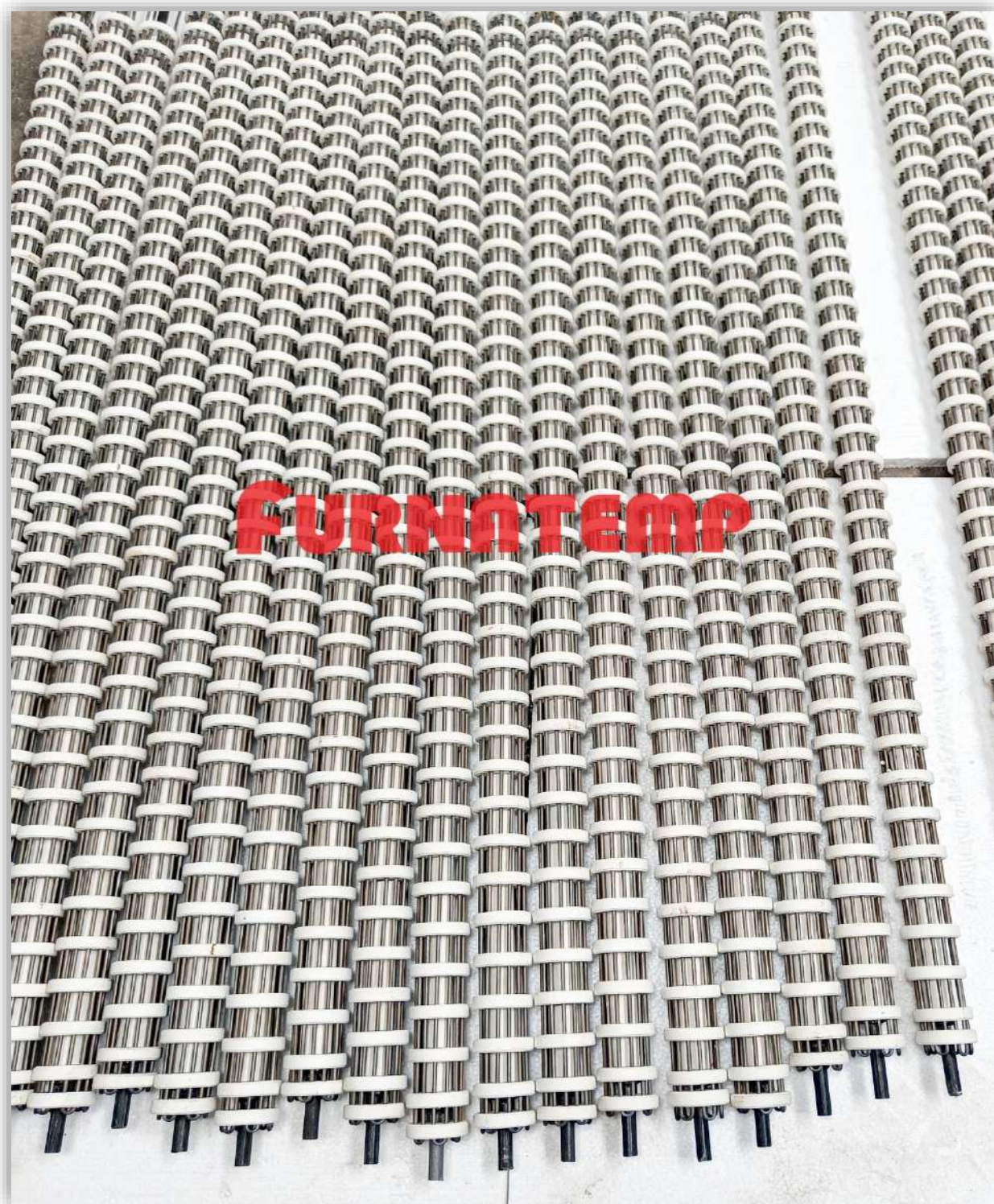
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CANDY HEATERS / COIL ON TUBE HEATERS

Coil on tube Heater consists of heater coil with ceramic tube that holds the heating coil. It is designed for long life and maintenance free operation. The hot zone and cold zone lengths can be adjusted as per the specific requirement, Due to innovative design, Coil on tube Heaters deliver a much higher power than conventional cartridge heaters. Designed & manufactured in low voltages for faster heating in order to achieve temperatures quickly, these heaters can be mounted horizontally. Either NiCr alloy or FeCrAl alloy can be used as heating element.

SUPERIOR POWER OUTPUT

Coil on tube Heaters, with a higher power output, leads to major saving in cost and maintenance. Also, they give highest power rating as compared to any other heater.

EASY INSTALLATION

Due to its robust and versatile design, Coil on tube heaters are easy to install and replace. Easy repair and high performance gives it an edge over others. Custom designed for the voltage and wattage required, Coil on tube heaters are used in heat treat furnaces and die casting machines to molten salt baths and incinerators.



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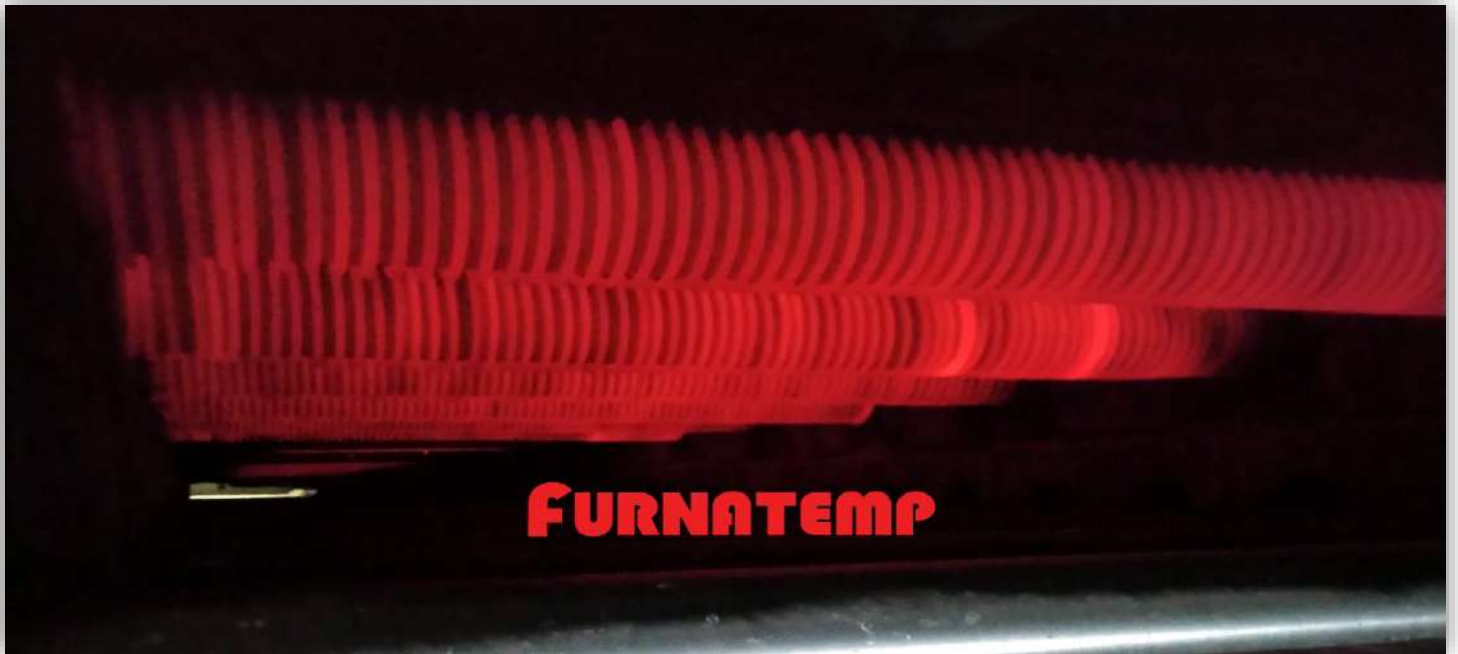


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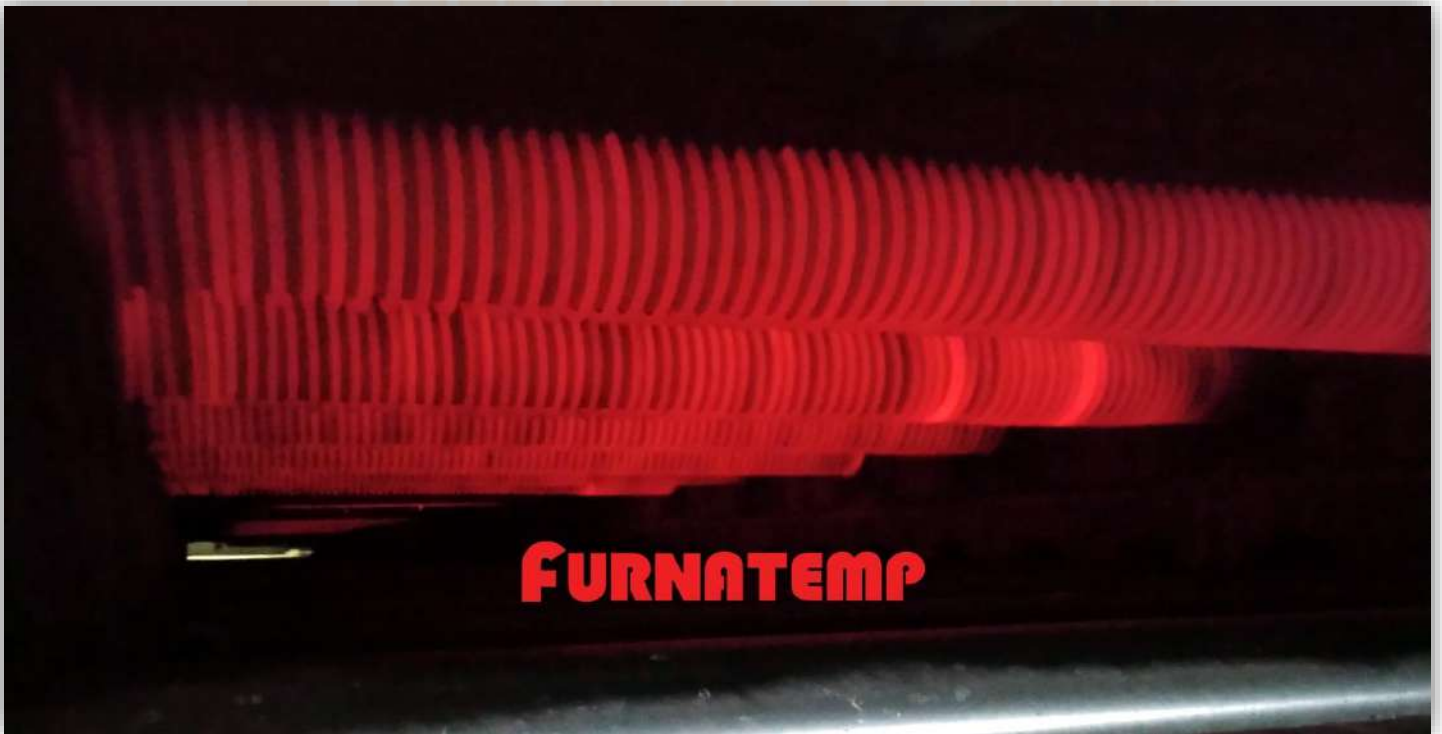
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FURNATEMP HEATING CASSETTE

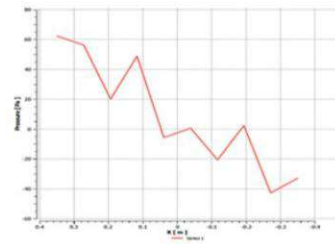
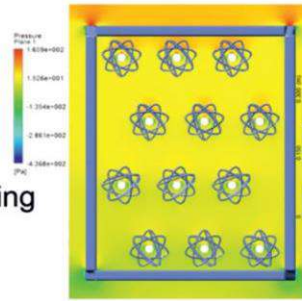
Star Type Heating Element



APPLICATIONS

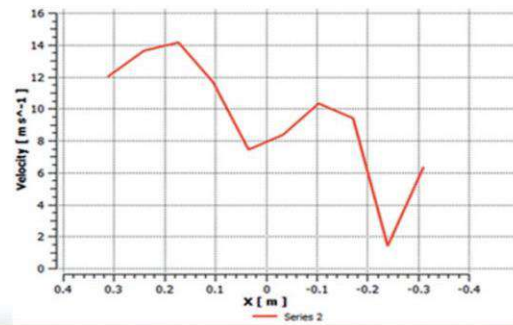
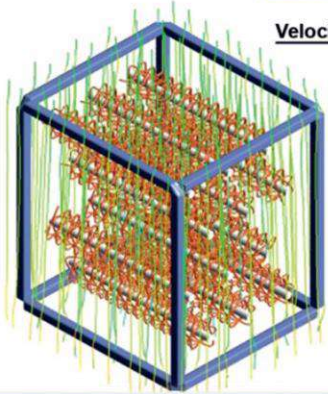
- Hot air ovens
- Tempering application
- Annealing
- Stress relieving
- Heating of aluminium before rolling and prior to hardening.

Pressure variation along the cassette

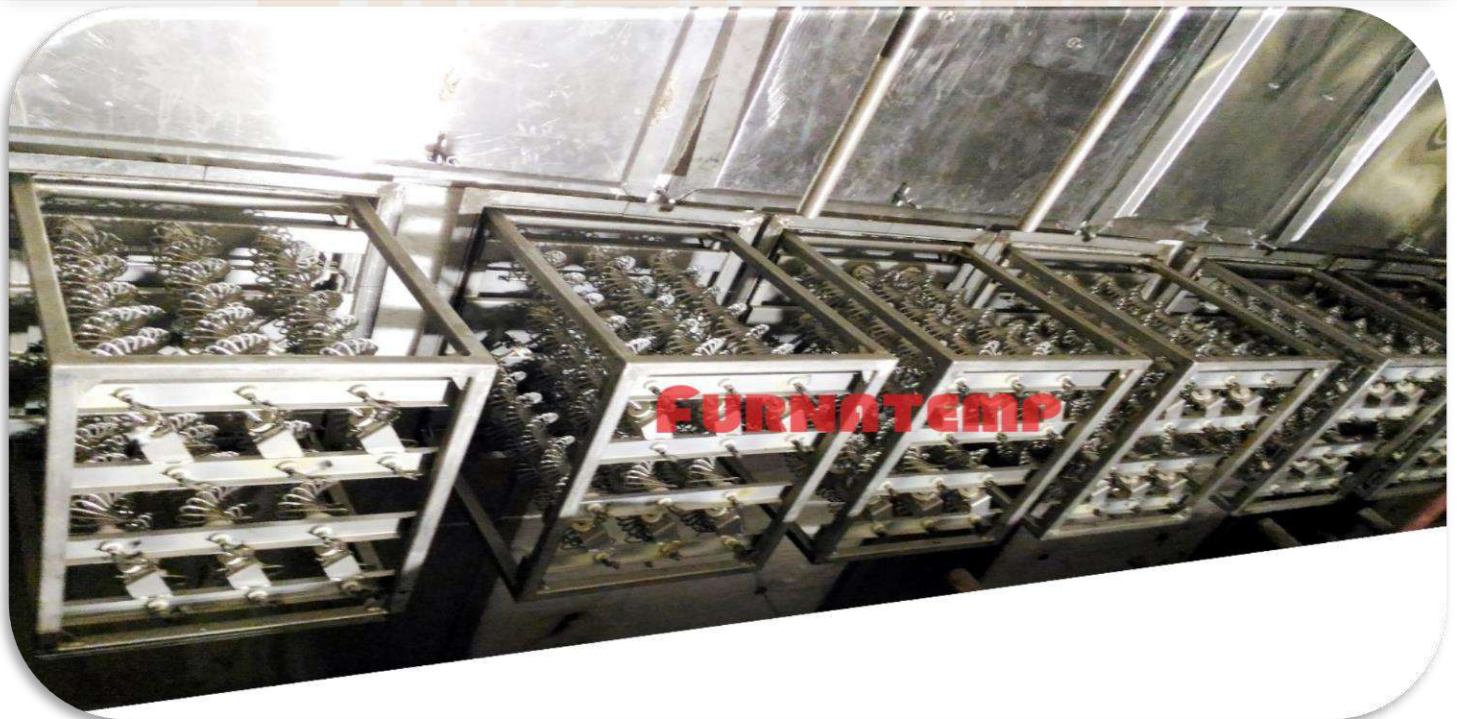


Velocity variation along the cassette

Velocity
Streamline 3
2.501e+001
1.876e+001
1.251e+001
6.253e+000
0.000e+000
[m s⁻¹]



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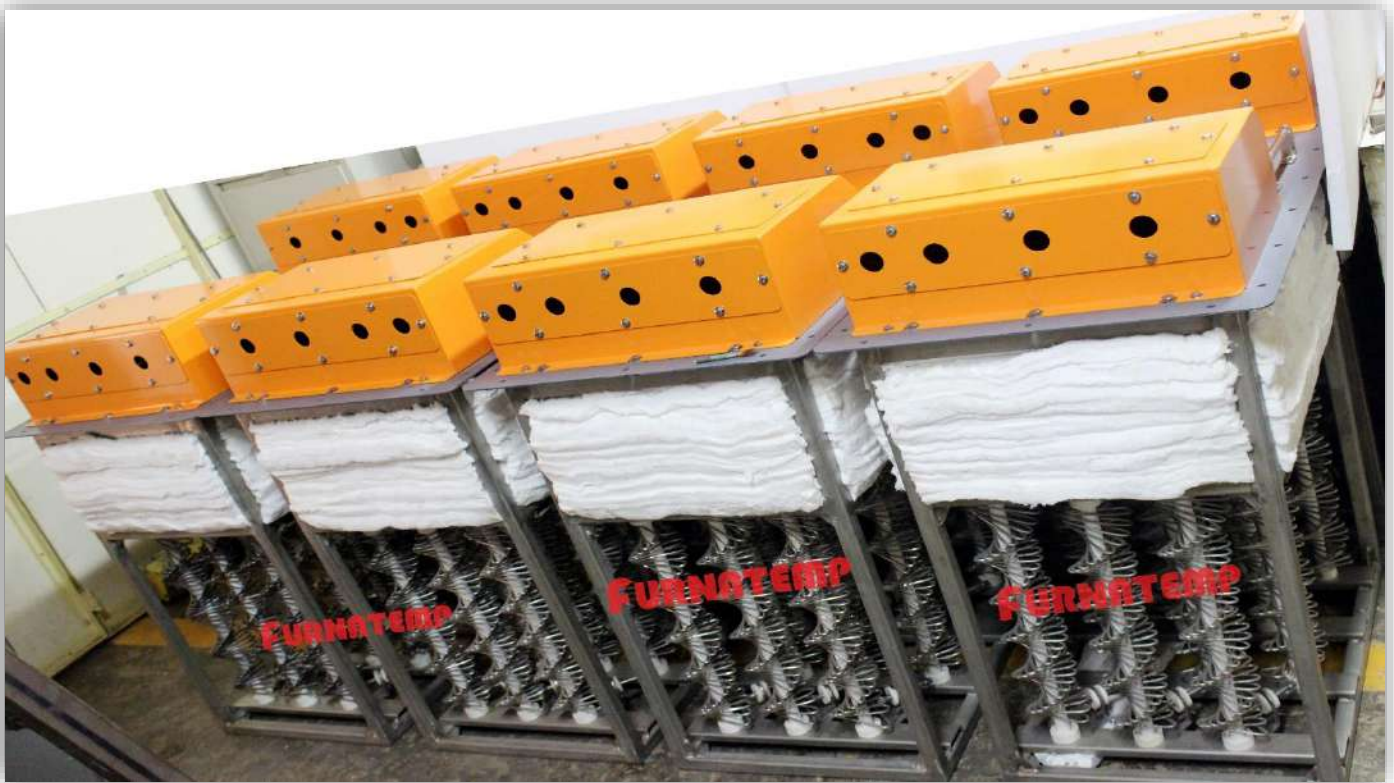
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