

# TUBULAR HEATING ELEMENTS



It works, **it's eika**



# TUBULAR HEATING ELEMENTS BY EIKA, A WORLD LEADING COMPANY



COMPETITIVE SOLUTIONS IN QUALITY, SERVICE AND COST CUSTOMERS ALL OVER THE WORLD

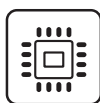
Since 1973 Eika has worked in the design and manufacture of electrical components for the cooking sector. We are an internationally renowned company, a benchmark in our market and part of the Mondragon Corporation.

Eika is one of the world's leading manufacturers of components for domestic appliances.

We are committed to offer competitive solutions tailored to our customers' needs, developed in close collaboration with them. We offer our products with a consistent quality and great service.



**RADIANT  
HEATERS**



**ELECTRONIC  
CONTROLS**



**TUBULAR HEATING  
ELEMENTS**



**ELECTRIC  
THERMOSTATS**

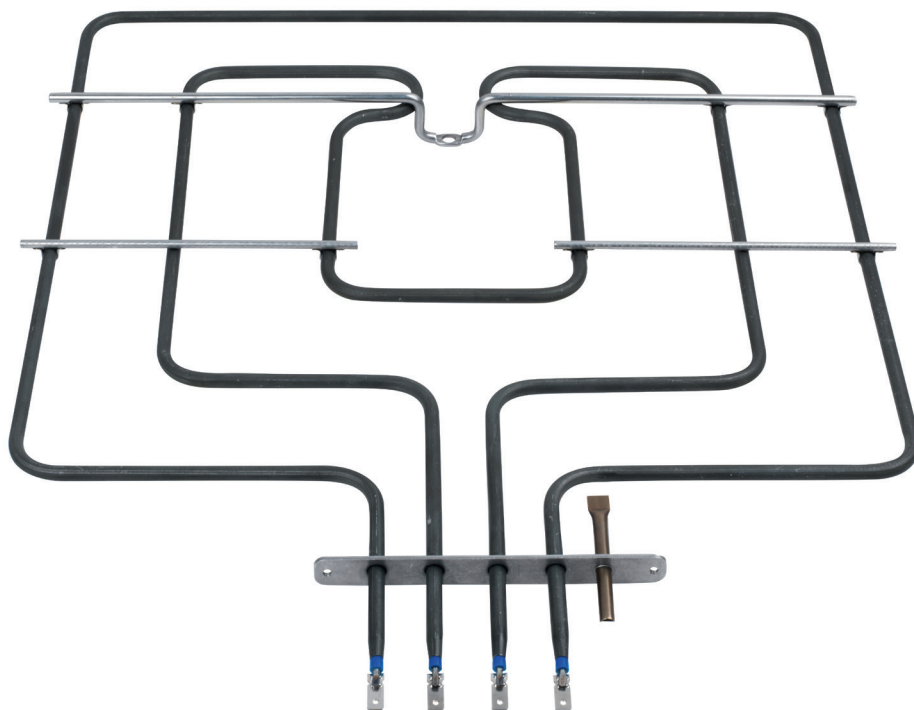


# MANUFACTURE OF TUBULAR HEATING ELEMENTS SINCE 1976



Eika manufactures tubular heating elements for domestic appliances, such as built-in and free standing ovens and also microwave ovens.

The designs of the heating elements are according to our customer technical specifications (geometry, dimensions, components and raw materials)



## GENERAL CHARACTERISTICS OF THE TUBULAR HEATING ELEMENTS

Function	Element for baking function	Element for grill function	Element for convection function
Typical geometries of tubular heating elements			
Outer diameter of tube	Eika standard diameter 6.5mm. Other diameters can be manufactured under customer request		
Length of elements	Maximum length of tube 3,5m		

## TYPICAL RAW MATERIALS USED IN THE MAIN COMPONENTS OF OUR TUBULAR HEATING ELEMENTS

Component	Material
Resistive wire	NiCr and FeCrAl alloy
Tube	1.4301 (AISI 304) – 1.4541 (AISI 321) – 1.4828 (AISI 309) stainless steel
Inner insulation	Eika only uses magnesium oxide for high temperatures

# YOUR OVEN COMPONENTS SPECIALIST



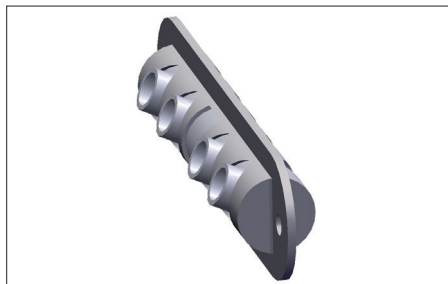
## Sealing at ends of tubes

All our tubes are sealed at the end, protecting them against moisture incoming during manufacturing, storage and use.

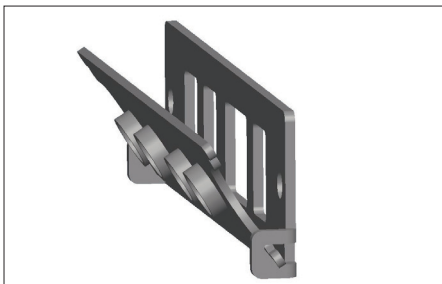
We work with two different sealing technologies

- Sealing based on epoxy components.
- Sealing based on mechanical closing.

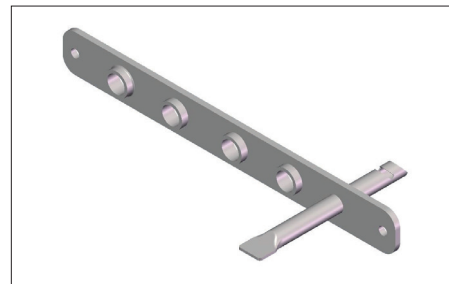
Fixation components are according to customer specifications.



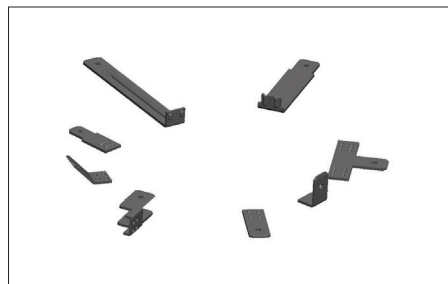
Tilting fixing plates to make easier the cleaning of the upper part of the oven



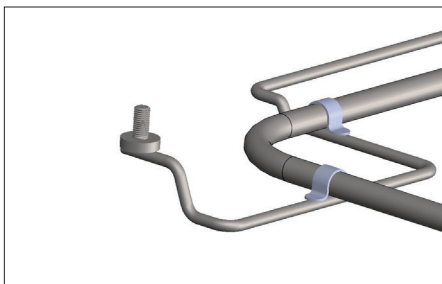
Tilting fixing plates



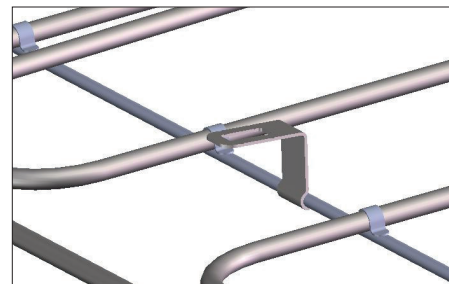
Pipe to hold the temperature sensor of the oven



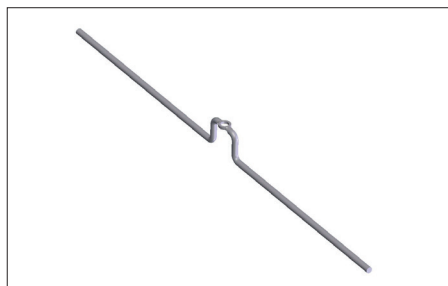
Connectors



Fixation with screw



Fixation with bracket



Fixation with shaped rod

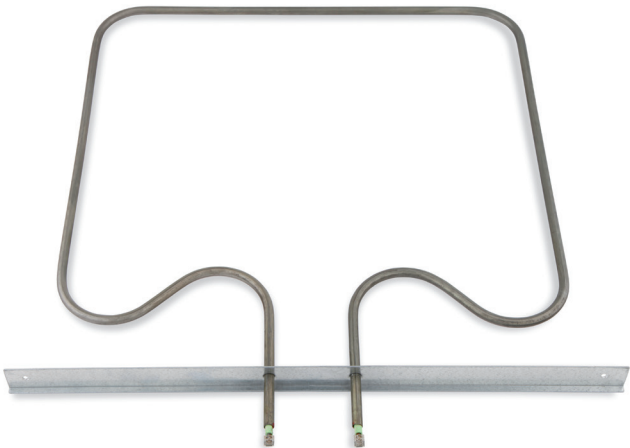
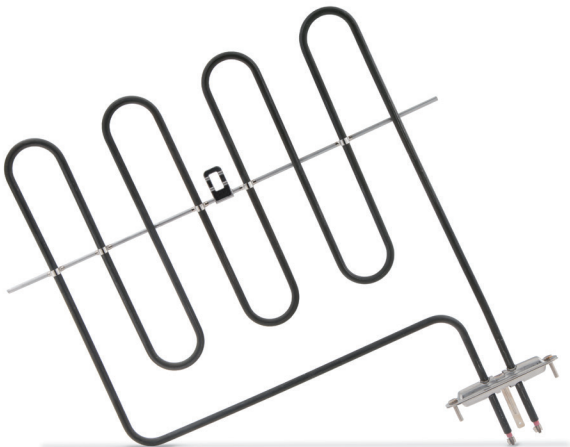
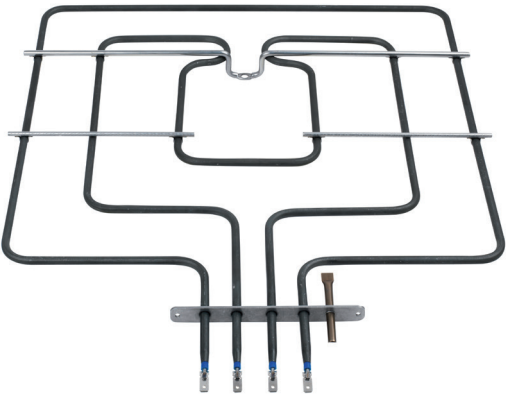
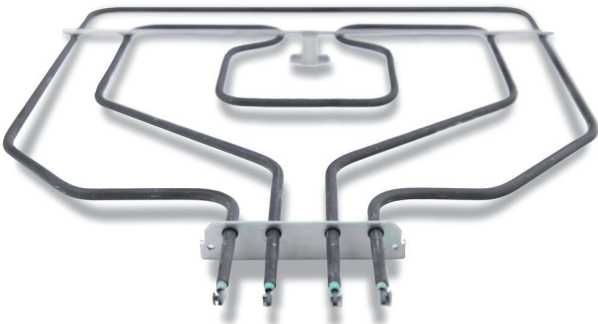
**Our tubular heating elements have VDE and UL certifications.**

**Environment and health: All our products are manufactured according to directives RoHS, REACH, and FOOD CONTACT MATERIALS.**

**To ensure the quality of our product-process and improve the performance of the system oven-heating component-controls, we have internal laboratories with facilities to develop tests according to customer specifications or to standards.**

- Safety tests for household and similar electrical appliances, according to standard UNE EN-60335
- Energy efficiency for ovens, according to standard UNE EN-60350-1
- Corrosion tests, using salt spray chamber, and humidity chamber with both relative humidity and temperature set up according to customer specifications.
- Life tests, using thermal fatigue cycles according to customer specifications.

**SOME EXAMPLES OF OUR  
TUBULAR HEATING ELEMENTS**





CUSTOMER  
ORIENTATION



GLOBAL  
MANAGEMENT



TECHNOLOGICAL  
CAPABILITIES



SOLVENCY



LEAN  
MANUFACTURING



PART OF A BIG FAMILY,  
MONDRAGON  
CORPORATION

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