

FLAT SOURCE OF HEAT

EFFICIENCY

HUMIDITY RESISTANCE

ROBUSTNESS

QUICK HEATING UP

QUALITY

UP TO 400°C



THICK FILM HEATING ELEMENTS

SAFETY · ENERGY EFFICIENCY · RELIABILITY

Key Performances

- High Power Density
- Steel Substrate
- PTC Effect
- High Temperature (to 400°C)
- High Dielectric Strenght

Approval



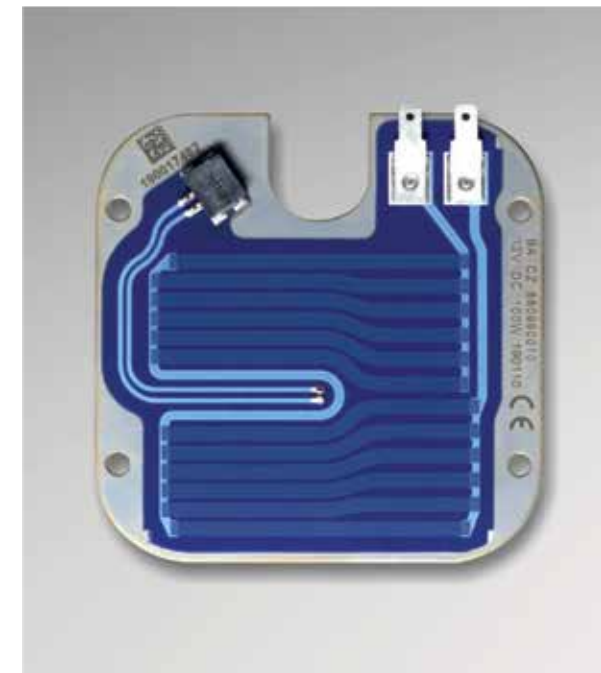
ISO9001:2015

THICK FILM HEATING ELEMENTS (TFE)

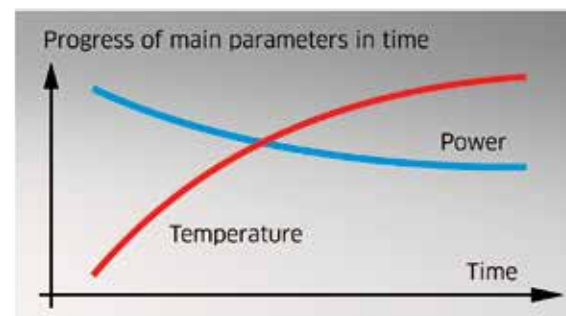
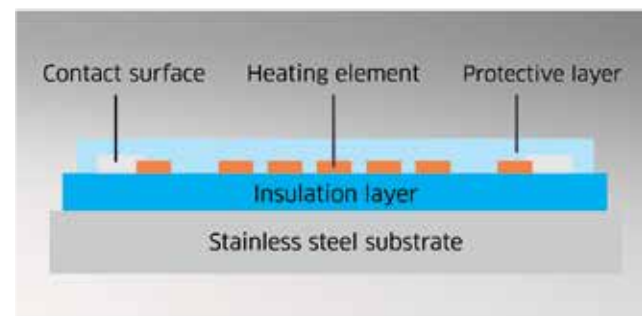
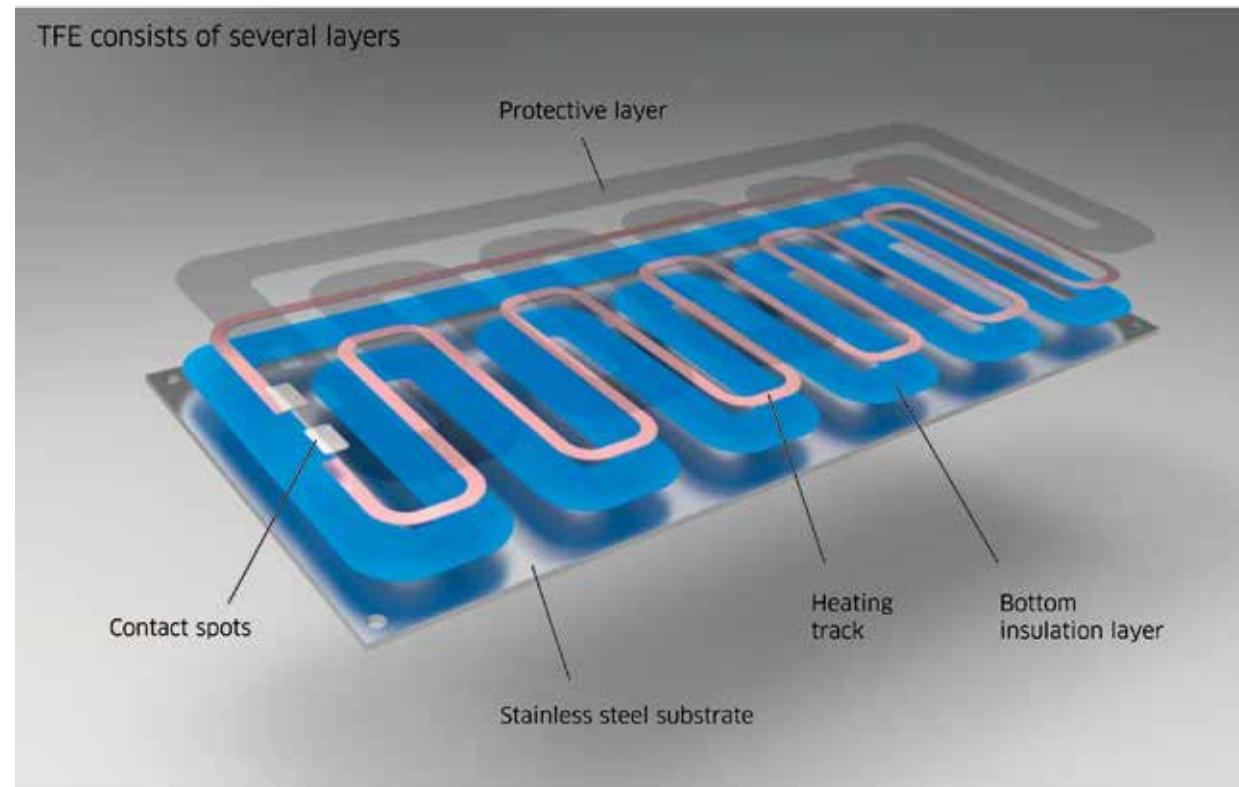
URT is a global producer with manufacturing and designing facilities in Europe and Asia with quick response to our customer's specific design and logistic requirements typical for this market.

Specific URT know-how is designing and manufacturing the thick film heating elements. URT provides a wide assortment of high quality heating elements and operational assemblies. A partnership with URT gives you a dedicated team of designers, project engineers and technical experts in the fields of electric heating, measurement and control, ready to provide you with the optimal solutions for your needs.

Thick film heating elements are produced on semi-automated or fully automated production lines. Total volume of the produced TFEs per year reaches almost 2 mil. pcs.



THICK FILM ELEMENT CONFIGURATION



TYPICAL ADVANTAGES

- Surface source of heat - flat tracks
- High performance - high power densities
- Possible high temperature up to 400°C
- Easy power management
- Electrical strength up to several kV
- Mechanical stable steel substrate
- Does not absorb humidity
- Temperature profile acc. to requirements

MAIN AVAILABLE TECHNICAL PARAMETERS

Dimensions	Maximal lenght	Max. power density on the heating track (W/cm ²)	Substrate material
Flat TFE - max. width 240mm	320 mm	48 W/cm ²	AISI 444
Tube - diameter 15mm	200 mm	53 W/cm ²	AISI 430
Tube - diameter 20mm	330 mm	51 W/cm ²	AISI 304

HOUSEHOLD APPLICATIONS

Food processor



Steam oven

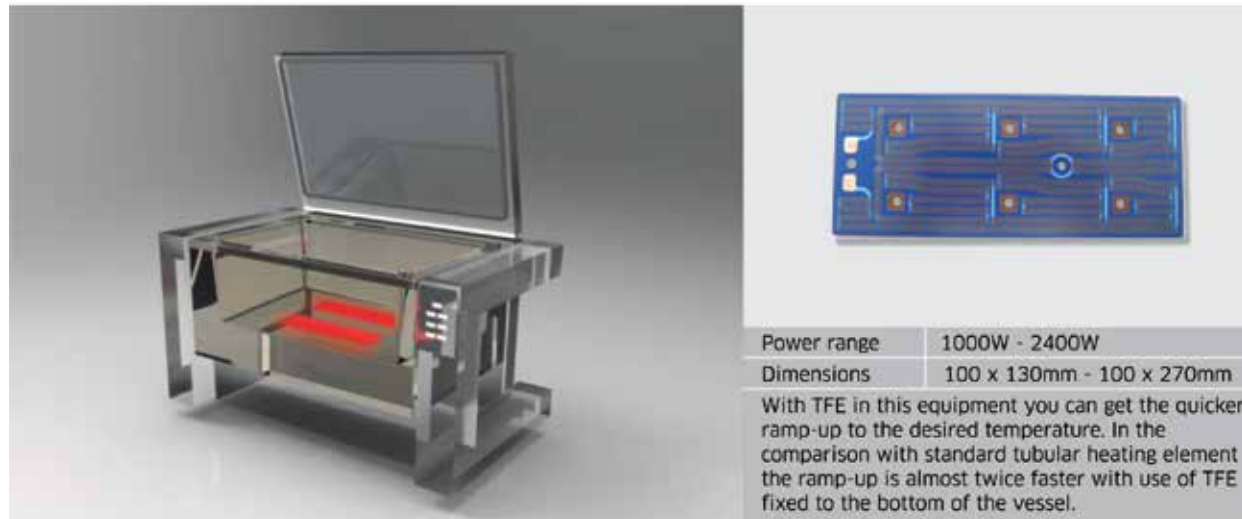


Deep fryer



INDUSTRY

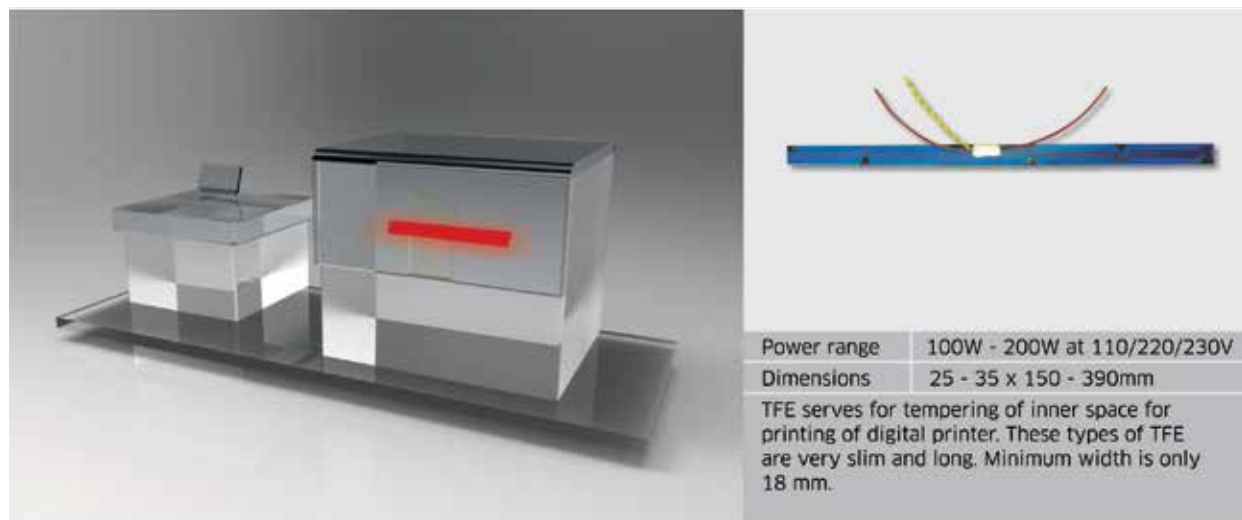
Gastro equipment for professional kitchens



Mini-breweries

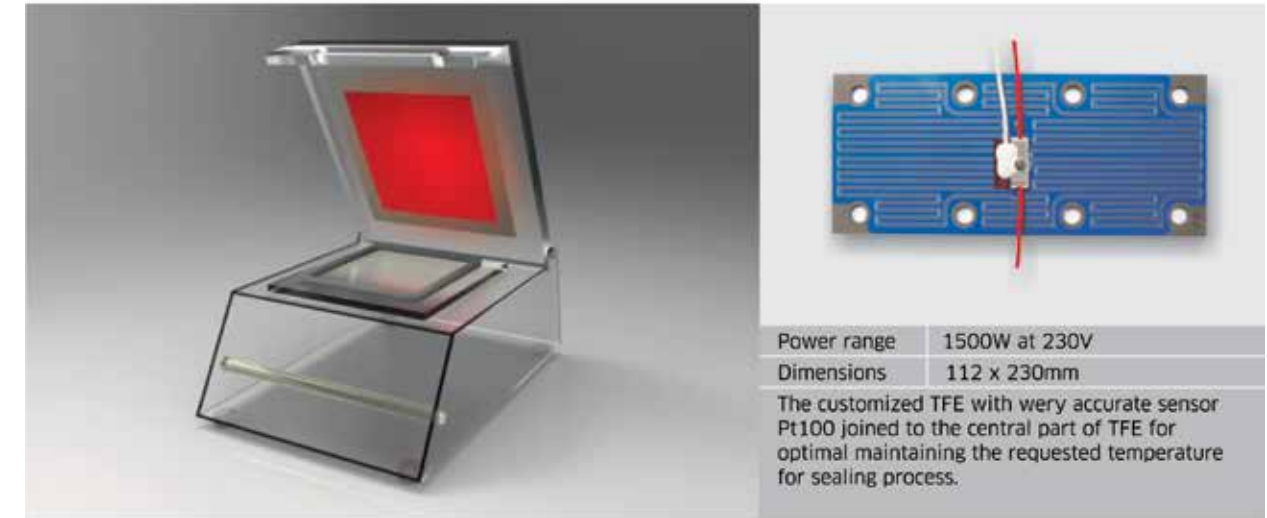


Digital printers

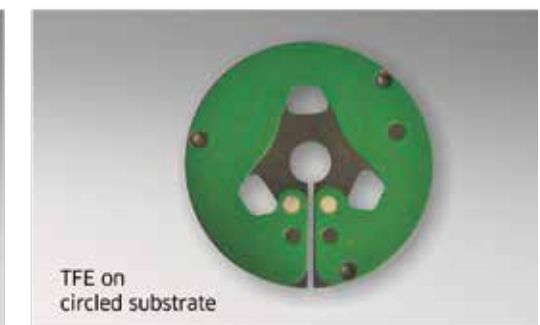
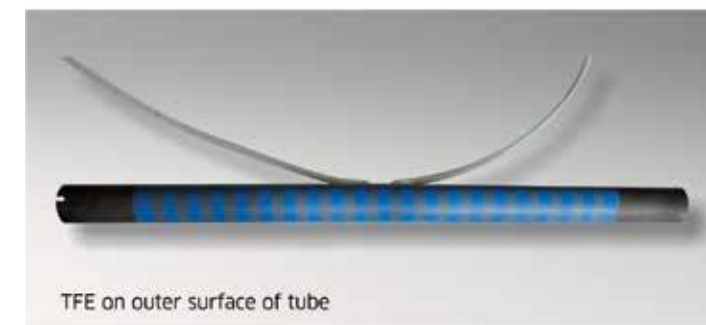


INDUSTRY

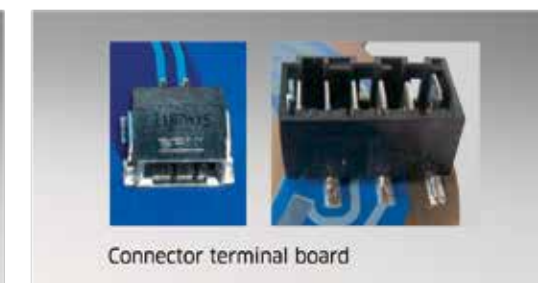
Packing Machine



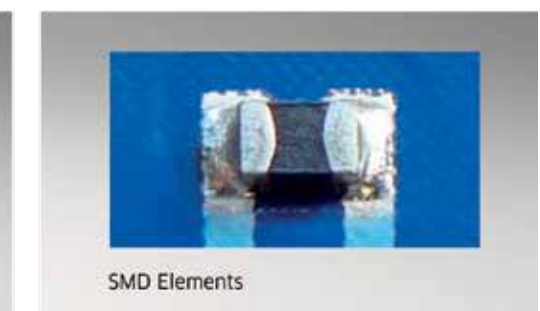
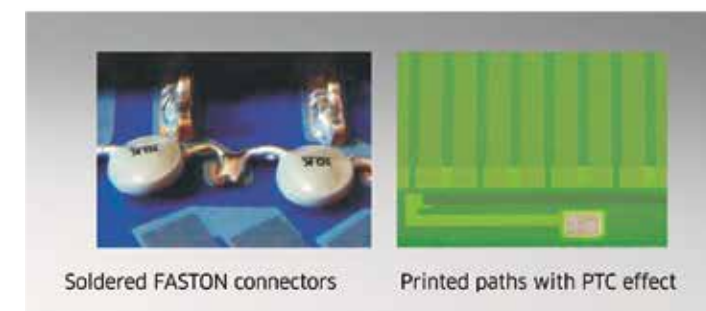
OTHER DESIGNS OF TFE ELEMENTS



CONNECTORS



SENSORS AND FUSES





URT has one of the largest technology portfolio in the industry
We deliver competitive solutions in several industry sector

Our Markets



**When the challenge is resistor technology
the world looks here for answer**

... the impossible made simple ...