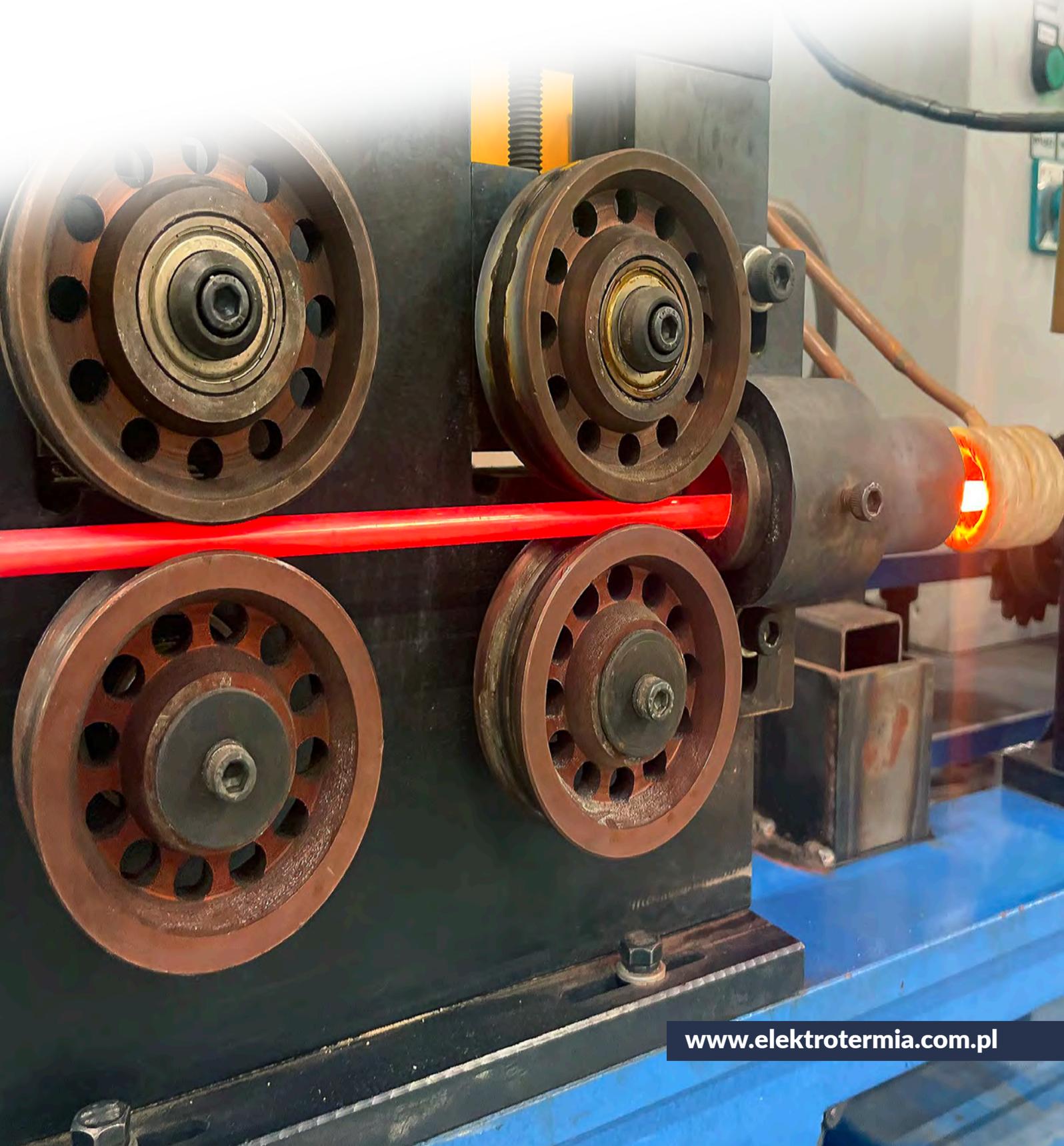


 ELEKTROTERMIA

electric heaters



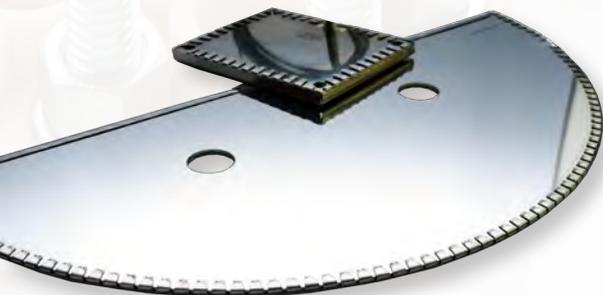
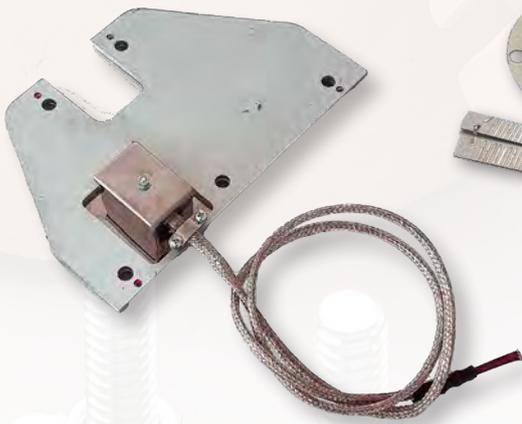
[www.elektrotermia.com.pl](http://www.elektrotermia.com.pl)

## Band type

- Diameter: from 20 to 900 mm
- Width: from 15 to 800 mm
- Thickness: 3 mm and more
- Housing material: Cr-Ni steel
- Supply voltage: from 12V to 500V
- Max. recommended Watt density: up to 4.5 W/cm<sup>2</sup>
- Max. operating temp.: 450°C
- Standard and customised solutions
- Hinged heater solution (for easy installation)
- For use with insulation blankets (to reduce power consumption by 40%)
- Temperature sensor or thermocouple option

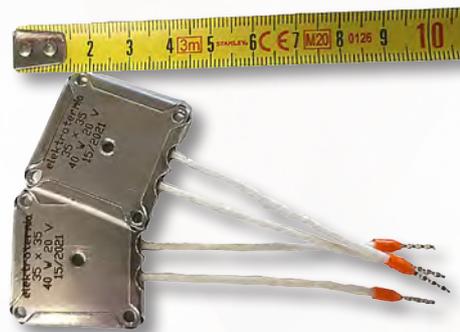


## Mica heaters



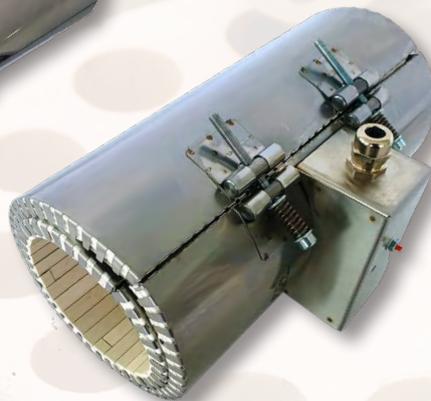
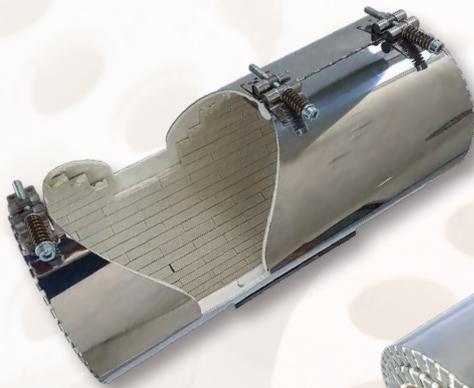
## Flat type

- Any dimensions
- Thickness: 3 mm and more
- Housing material: Cr-Ni steel
- Supply voltage: from 12V to 500V
- Max. recommended Watt density: up to 4.5 W/cm<sup>2</sup>
- Pressure plates for better heat transfer and longer heater life
- Internal thermocouple: J, K, T, Pt100, Pt1000 or other



## Band type

- Diameter: from 50 to 900 mm
- Width: from 15 to 800 mm
- Thickness: 8 mm and more
- Housing material: Cr-Ni steel
- Supply voltage: from 12V to 500V
- Max. recommended Watt density: up to 6.5 W/cm<sup>2</sup>
- Max. operating temp.: 650 °C
- Optional additional thermal insulation (to reduce the heat emission outside the heating element by up to 40%)
- Internal thermocouple: J, K, T, Pt100, Pt1000 or other



## Ceramic heaters

### Flat type

- Any dimension or shape
- Standard and customised models
- Thickness: 8 mm and more
- Housing material: Cr-Ni steel
- Supply voltage: from 12V to 500V
- Max. recommended Watt density: up to 6,5 W/cm<sup>2</sup>
- Max. operating temp.: 650°C
- Internal thermocouple: J, K, T, Pt100, Pt1000 or other



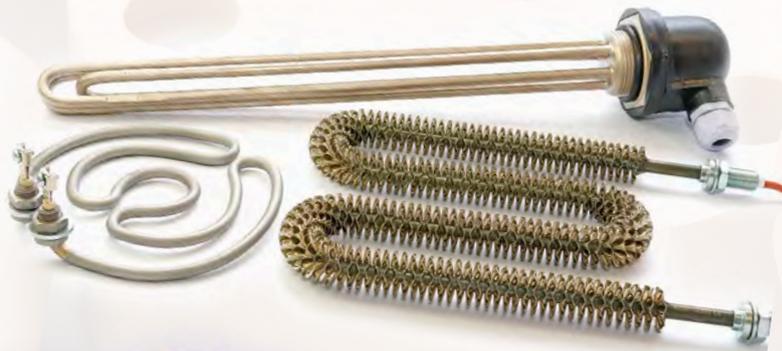


## Cartridge heaters

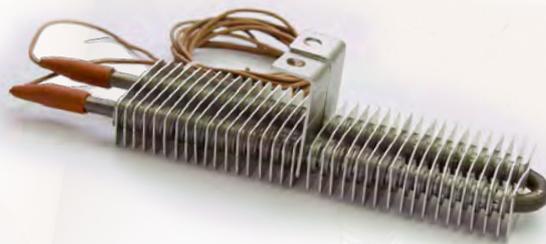
- Diameter: 5 mm and more
- Length: 30mm and more
- Housing material: Cr-Ni steel
- Supply voltage: from 12V to 500V
- Watt density: up to 20 W/cm<sup>2</sup> (according to heater size and intended use)
- Power connector: straight, angled, threaded
- Internal thermocouple options: J, K, T, Pt100, Pt1000 or other



## Tube heaters



- Diameter: from 6 to 16 mm
- Length: min. 150 mm, max. 5,200 mm
- Shape: any, profiled as required
- Sheathing pipe material: AISI 304, 316L, 309, 321, Incoloy 800 C
- Supply voltage: from 12V to 500V
- Watt density: adapted to working environment
- Max. operating temp.: 750°C (according to steel grade and intended use)



## Heating and cooling units (extruders)

These are devices that enable the processing of a wide range of synthetic and other materials used in manufacturing processes. They usually include a ceramic heater wrapped in a heat sink, all covered by a jacket with a connection for a fan to rapidly cool the heater.

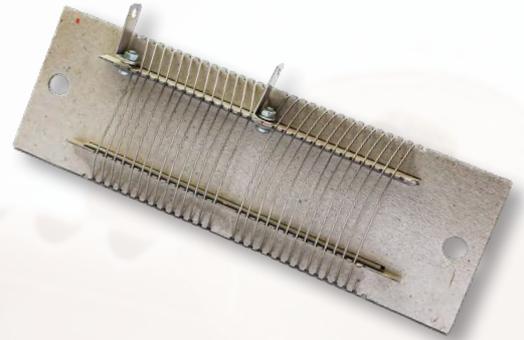
Parameters can be customised to suit individual production lines. Mainly used in the plastics industry.



# Heating coils



- Any shape or size
- Manufacturing of heating coils, rods and ribbons
- Materials: Kanthal wire and ribbon or equivalent
- Manufacturing of non-standard spare parts for metalworking equipment
- For use mainly in PEK, POK, PEC, PEKRT, PEKAT, PEG and other furnaces



# Galvanic heaters

- Any diameter or length
- Heater sheathing material: fused quartz, acid proof stainless steel 316L, 316Ti, 304
- Heating element: ceramic heater (so-called ceramic roller)
- Standard design with splash-proof head cover, individual solutions according to needs and applications
- Supply voltage: from 12V to 500V
- Power: according to intended use and heater size
- Internal thermocouple option: J, K, T, Pt100, Pt1000 or other



# Coil heaters



- Length: from 50 to 3000 mm (when uncoiled to a straight element)
- Max. power: 25 W/cm<sup>2</sup> (high power vs. small area)
- Voltage: according to customer order
- Working temperature. 600°C\*
- Dimensions (with thermocouple installation option): 2,5 x 4.2 mm. 3.5 x 4.8 mm. 3.0 x 5.1 mm. 4.6 x 6.5 mm, ø 4-6 mm  
Dimensions (without thermocouple installation option): 2.8 x 3.7 mm
- Sheathing material: AISI 304, AISI 321

# Kanthal products

We offer resistance alloy and high-temperature materials (up to 1900 degrees C) heating systems from the Swedish company of Kanthal: Kanthal Super, Sylity, Fibrothale, APM casing tubes, Tubothale and many more.

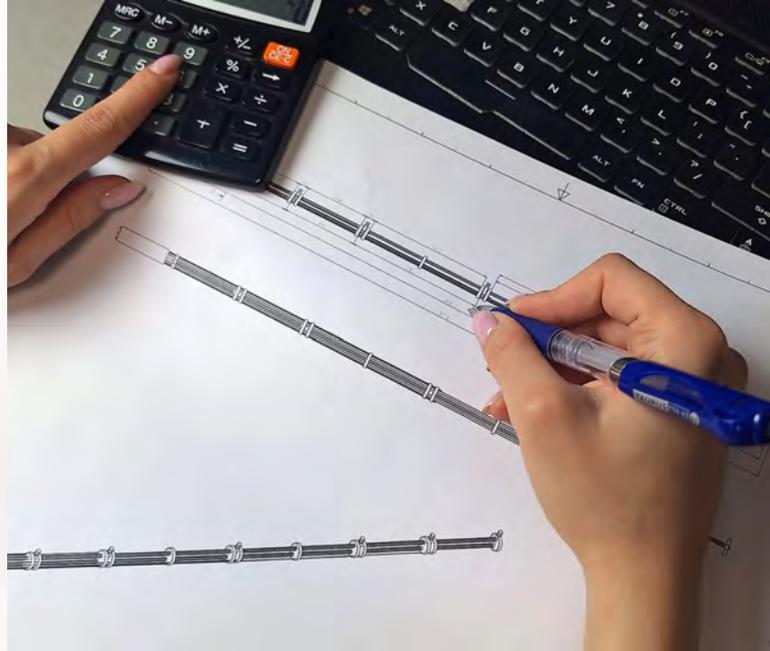


# Industrial heating

Elektrotermia has been manufacturing heating elements for over 30 years. With the use of the best Swedish resistance materials and Kanthal machinery and technology, we ensure durability and reliability of our products, and we apply the experience we have gained to continuously improve the quality of the heaters we offer.

Our heating elements are widely used in many industrial sectors, wherever manufacturing processes require elevated temperatures, including plastics (mould) and rubber processing, food industry, chemical industry, automotive industry (moulds, injection moulding machines), wood industry, shoe industry and many other.

We also specialise in the production of non-standard heaters, manufactured to individual orders. Additionally, we can undertake the reconditioning of various equipment items, such as heaters, dryers or large heating units.



 LEKTROTERMIA

## Production plant

ul. Fabryczna 10, 32-005 Niepołomice

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