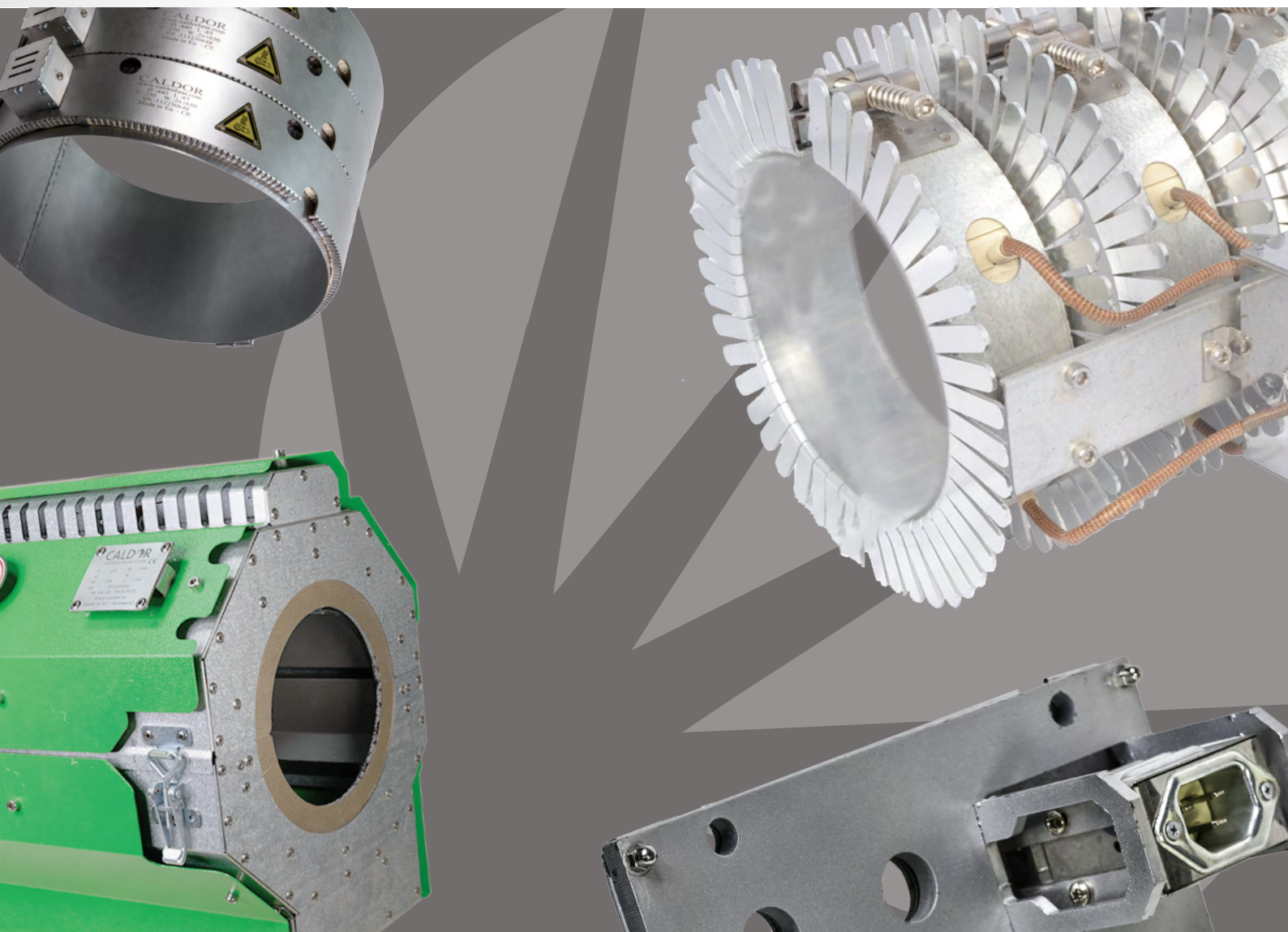


**HEAT-COOL-COMBINATIONS
BAND HEATERS**

CALDOR
INDUSTRIAL HEATING SYSTEMS



Innovative solutions for personalized electrical heating technology

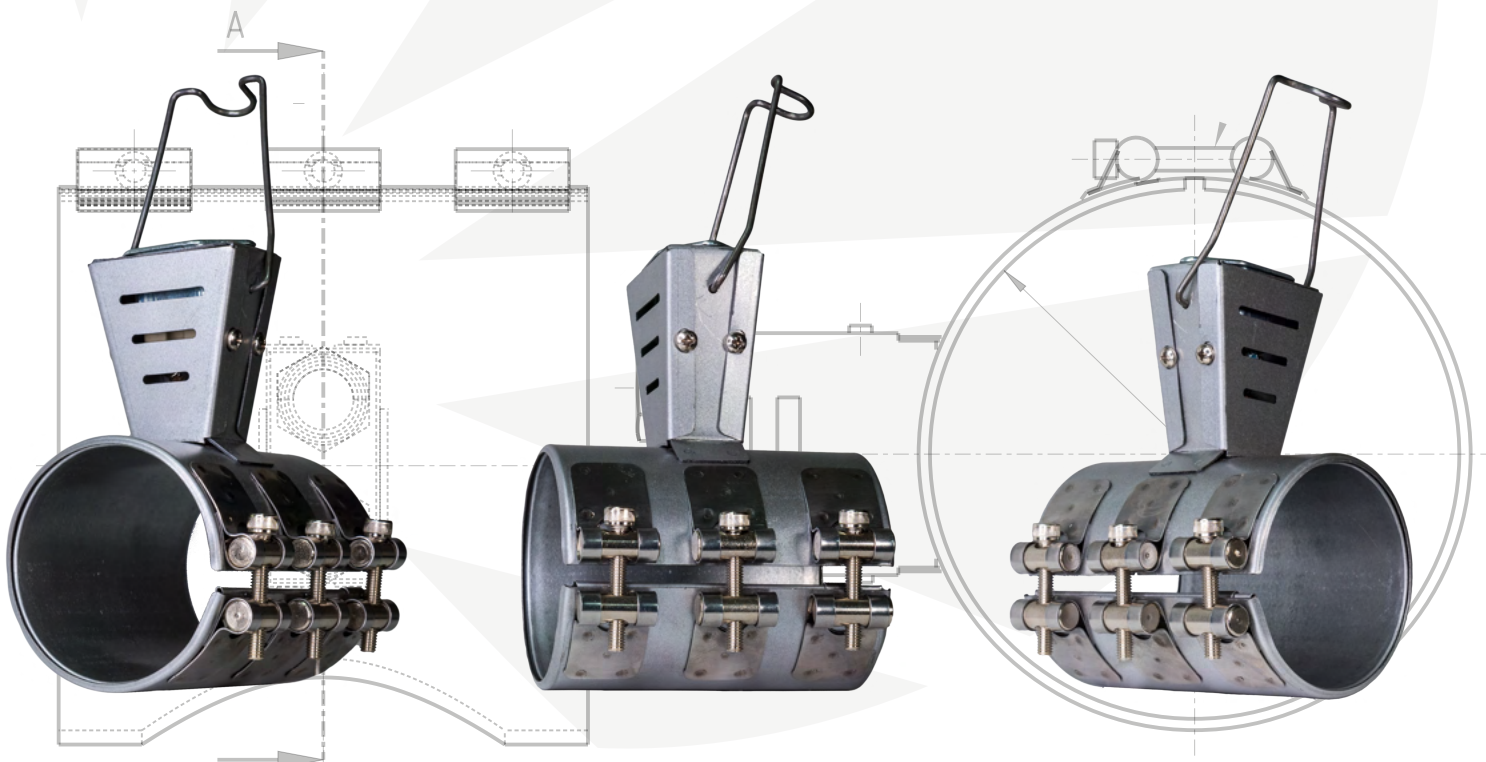
Our products can be found in various industry sectors where heat is utilized in production processes. From injecting molding machines and extruders for plastic synthesis, to sealing packaging machines with various cup shapes, our heating elements provide the necessary heat. With our electrical heating elements, there are numerous applications in which they can be used. To complete our delivery program, we offer an extensive product range of temperature sensors, controllers, and ovens.

Band heaters are highly effective for a wide range of cylindrical heating applications. They are particularly well-suited for tasks such as injection molding and extrusion machines and tools, hot runner tools, processing tubes with bitumen, bag sealers, filling devices in the food industry, manufacturing special-purpose machinery, tube tools, coating devices, blow molding technology, sleeve cut-outs, and rubber processing. These heaters have established themselves as dependable OEM equipment for various types of machinery.

MICA INSULATED BAND HEATERS

Mica band heaters consist of a nickel-chrome plate wrapped around a sheet of mica, enclosed in an outer cover made of aluminium-plated sheet metal or stainless steel. These heaters can operate at temperatures up to 350°C and can handle specific charges of up to 4 W/cm².

- In addition to the band type, we also offer flat **mica heating elements** that can reach working temperatures of up to 450°C.
- We provide heating/cooling assemblies comprising mica band heaters, which can be equipped with heat exchangers and a forced air cooling system if needed.
- Band heaters find extensive use in the plastics industry for heating plasticization cylinders, extruders, and injection presses. They are also utilized in woodworking machinery and scientific-medical equipment.
- Flat mica bands are commonly employed in the packing trade for sealing bars and wheels, as well as in industrial ironing (mangles) and plastics (extrusion/blower machines).
- For further inquiries or to discuss your requirements, please feel free to get in touch with us.

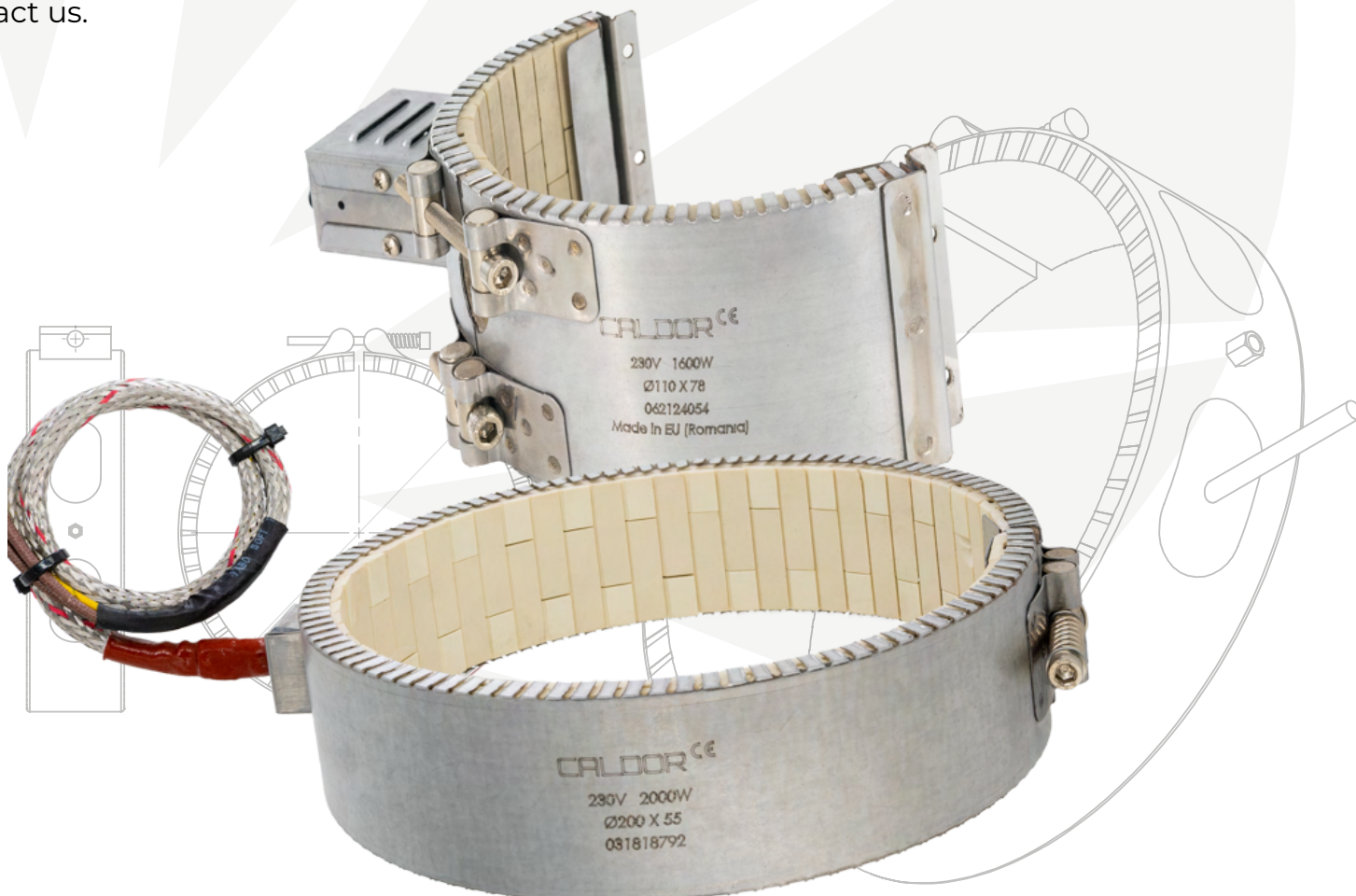


CERAMIC INSULATED BAND HEATERS

Ceramic band heaters are constructed with a nickel-chrome coil enclosed in steatite modular elements. They feature an external cover made of either sheet Alusi or stainless steel. These heaters are insulated by a layer of ceramic fiber, which directs heat flow towards the surface to be heated and helps to limit the cover temperature.

- These heaters are designed to operate at temperatures of up to 450°C and can handle specific charges of up to 8 W/cm².
- Ceramic band heaters are primarily used in the plastics industry to heat injection presses, extruders, and blowers.
- Our offerings include:
 - Standard band heaters with customized diameters and widths to suit specific project requirements.
 - Ceramic heaters with triple covers that reduce external temperature, providing energy savings and ensuring accident-proof operation.
 - Flat heating elements.
- Additionally, we manufacture operating assemblies that consist of ceramic band heaters and heat sinks.
- We also supply operating heating/cooling assemblies, which incorporate ceramic band heaters. These assemblies can be fitted with heat exchangers if necessary and come with a forced air cooling system.

If you have any questions or would like to discuss your needs further, please don't hesitate to contact us.



HEAT-COOL COMBINATIONS

CALDOR
INDUSTRIAL HEATING SYSTEMS

Heat-cool combinations are primarily utilized in the extrusion industry. They are commonly employed when processing materials such as PVC, PE, PP, or similar polymers. Additionally, our heat-cool combinations are also used in recycling plants.

For the extrusion sector, we offer **CERAMIC INSULATED HEAT-COOL-COMBINATIONS**. These combinations are specifically designed for extrusion applications and can operate at temperatures of **up to 450°C**. In some cases, they can also be suitable for polymer processing.

Our Heat-Cool-Combinations come with various options, including customizable dimensions and connection versions. We can accommodate different voltage and wattage requirements. Additionally, options include the incorporation of holes and/or thermocouple bridges, cut-outs with lining as indicated, and adjustments in the clamp gap.

We also offer features such as a hinged cooling jacket, quick-lock mechanisms, additional integral insulation layers, and outer touch protection. If needed, the cooling jacket material can be customized, for example, to stainless steel.

Different versions of blower connections are available, including options with a self-locking flap at the air exit or with an integrated blower.

MICA INSULATED HEAT-COOL-COMBINATIONS are primarily used in the extrusion sector. In some cases, they can also be suitable for processing PVC, PE, PP, or similar materials on injection molding machinery. These combinations are also utilized in recycling devices. They can operate at temperatures of **up to 350°C**.

We provide various options for customization, such as different dimensions and connection versions. We can accommodate specific voltage and wattage requirements, and incorporate holes and/or thermocouple bridges as needed. Cut-outs with lining can also be included based on your specifications.

Adjustments to the clamp gap, hinged cooling jackets, quick-lock mechanisms, additional integral insulation layers, outer touch protection, and different cooling jacket materials (e.g., stainless steel) are also available options.

We offer blower connection versions, including options with a self-locking flap at the air exit or with an integrated blower.

If you have any further questions or would like to discuss your specific needs, please feel free to reach out to us.

