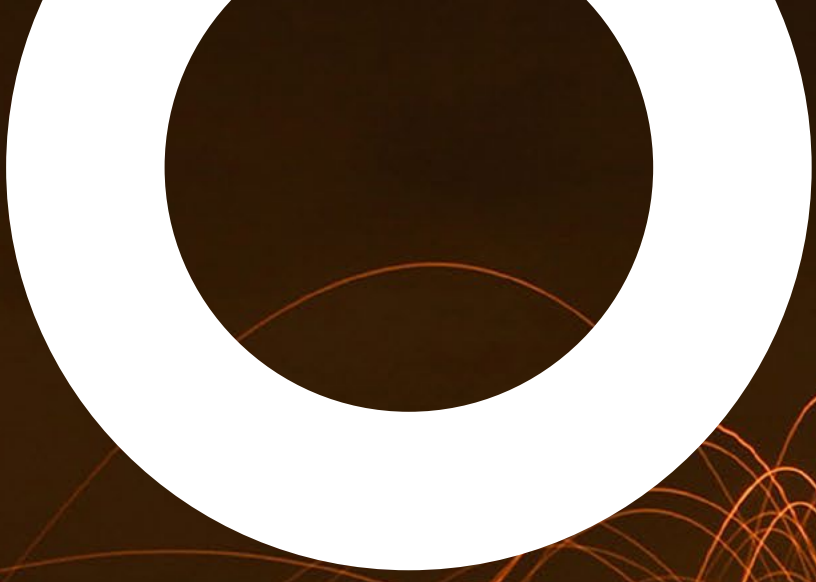




**We make
industry hot**

since 1971

We make industry hot





We make industry hot

Since 1971 Sinkoplex production plant has been continuously creating new, personalized heating solutions which not only increase the temperature but also improve the safety, economy and comfort of work in our Customers' companies.

As of now, our product portfolio is virtually unlimited and the final shape of each product is decided by the customer. No orders are too big, too difficult, too complicated or too small for us. We offer both series and piece production. We are able to create even a single piece of equipment with parameters precisely adapted to the target.



During several tens of years we have come a long way full of changes and challenges to grow from a small family business into a brand of international reputation and unlimited production capabilities.

With you we feel it's just a warm-up.



Leader in heating equipment

As early as in 1971 Sinkoplex supplied reliable, personalized heating equipment for the needs of Polish and foreign customers.



We specialize in production and distribution of various types of heaters manufactured with great attention to quality and durability, stability of operation, as well as ease and safety of use.

With our capability to meet the most untypical requirements and our partnership approach to cooperation we enjoy the confidence of a growing number of the European customers.

Products of Sinkoplex are currently supplied to the markets of i.a. Poland, Latvia, Romania, Hungary, Slovakia and Lithuania where our brand is a synonym for reliability and precision.



01. TRADITION AND MODERNITY

We are a multigenerational company where the respect for the many years of tradition is combined with openness to the latest technologies.

02. INNOVATIVENESS

We have modern machinery with proprietary solutions to secure full production flexibility.

03. UNCOMPROMISED QUALITY

The combination of high quality materials with proven production methods allows the creation of products with outstanding parameters.

04. INDIVIDUAL APPROACH

All heaters are made to meet the specific needs and requirements of the customers to ensure effective operation.

05. CARE FOR SAFETY

We satisfy the most stringent product quality and environmental protection standards which is confirmed with certificates we have been awarded.

06. FULL INDEPENDENCE

As all the products are fully manufactured by us we control the entire production process starting from the selection of raw materials to the transport to our customers.

Brand with values

Trusted partner in business



Fully own production

All equipment items of Sinkoplex are made in our own production plant with the use of the highest quality raw materials and state-of-the-art technology.

Tailored machinery allows flexible production with no quantity limits while the dedicated IT system ensures full control of all the processes.

Advanced technologies

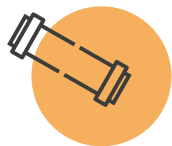
We produce heating elements according to OAKLEY-KANTHAL technology which ensures perfect and stable quality of our products, many years of service and possibility of use in various environments including aggressive and humid ones. We always satisfy the domestic and European standards in force which is confirmed with the CE marking.



Dedicated design

We design the heating elements according to the preferences of our customers to make sure the heating systems produced are reliable and fully adapted to the needs. On request we can develop 2D and 3D heater models or prepare the instrumentation necessary for the construction of a specific equipment type.

How are SINKOPLEX[®] heaters made?



Tube cutting

We cut steel tubes to desired length. We select the stainless steel grades to the future working conditions.



Coil winding

We boast the state-of-the-art machinery with proprietary solutions to ensure full flexibility of production.



Filling

To effectively insulate the coil from the sheathing tube the resistant element inside the tube is "immersed" in magnesium oxide.



Rolling

In the rolling process magnesium oxide is compacted to significantly improve the heating parameters of the device.



Annealing in furnaces at approx. 1000°C

Annealing of heating elements will soften the sheathing tube to allow the heaters to be bent according to the design.



Bending

Annealed elements are bent using CNC bending machines to produce the desired form of the whole element.



Soldering

Heaters are soldered into heads or flanges to ensure perfect tightness allowing them to be used in tanks with liquids.



Welding

Thanks to the welding in the reliable TIG method the maximum precision of joints between the subassemblies and the heating element is achieved.



Fuse welding

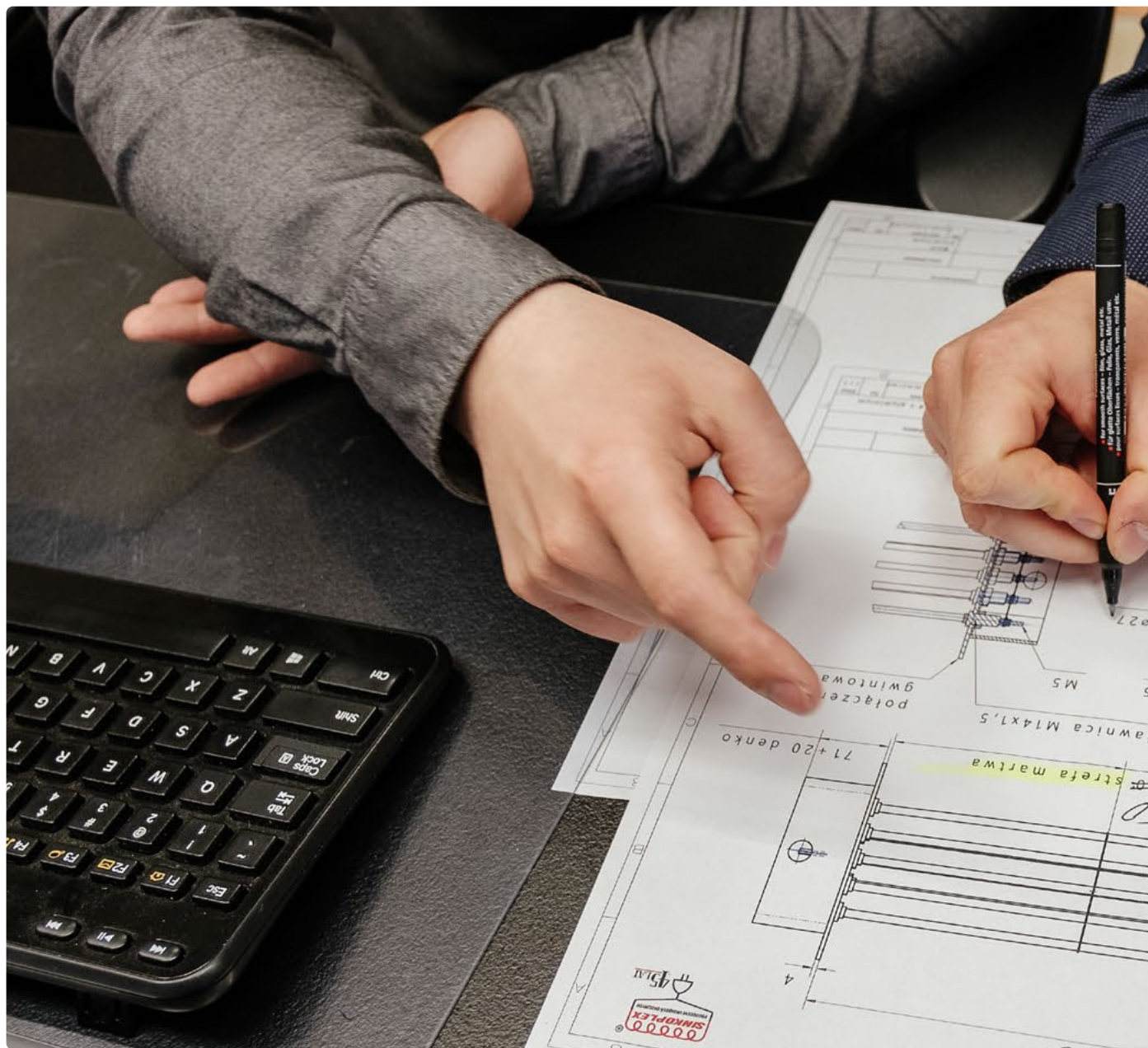
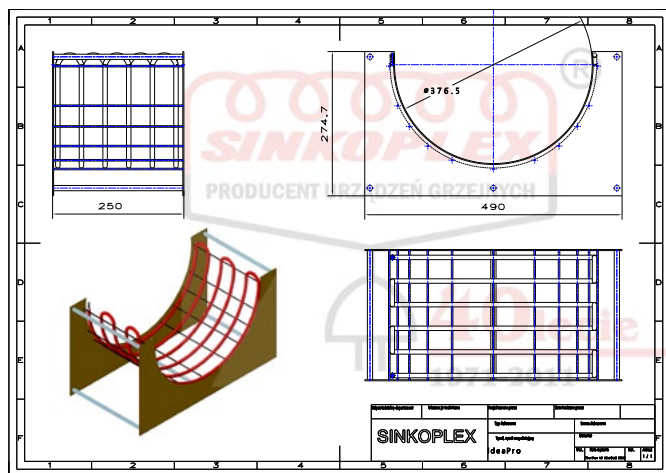
We connect various type of electrical terminals to ensure robust joint between the heater end and the electrical terminal.

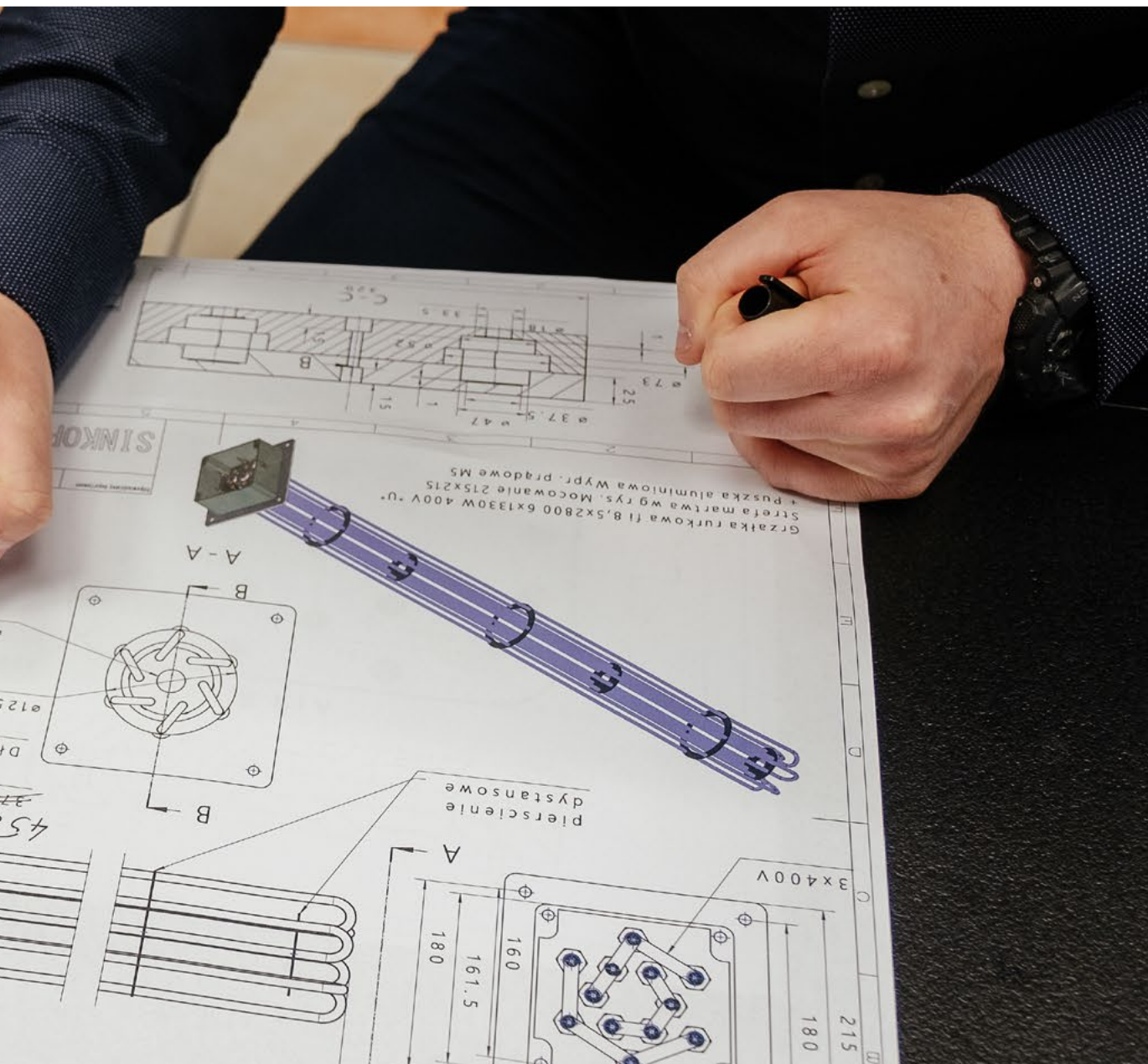
Raw materials under control

We have our own warehouse where high stock of raw materials in numerous grades and types is continuously stored. This makes our production fast and fully independent from external suppliers. Storage processes are strictly controlled. We track each batch of raw materials which translates into higher quality of the products we offer.

Designing

We are always open to our customers and this is why we design heating elements according to our customers' preferences. Additionally, on request, we can prepare 2D and 3D models of the heaters.





Each case is different

Tailored approach to each order is our trademark. This is why the technology and the raw materials to be used in the production process are carefully selected for each individual case. Where necessary we can also design the instrumentation to design the specific heater type. All that should ensure long-term reliability of the heating system.

Solutions you need

We offer wide range of equipment and accessories tailored to individual orders. In our production process we not only consider the customer's needs but we also try to anticipate them by choosing the optimum solutions and technologies.

Tube heaters

In the manufacturing of tube heaters we use the best raw materials and rolling technologies to ensure excellent parameters and maximum life of our heaters. Tube heaters are available in four basic types: for use in the air, in liquids, in mould ducts and for defrosting purposes.

Application

- Heating chambers, furnaces, bakery, refrigeration, air-conditioning
- Water tanks, oil tanks, catering
- Injection moulds
- Refrigerated display cases



POWER:
10 W/cm² *

VOLTAGE:
acc. to customer order
(12 V – 500 V) *

OPERATING TEMPERATURE:
acc. to application
and steel grade

DIAMETER:
5-18 mm *

LENGTH:
200-6300 mm *

SHEATING TUBE MATERIAL:
AISI 304, AISI 316L, AISI 309, AISI
321, Incoloy 800 *

Flat micanite heaters

Flat micanite heaters can be used to heat moulds, hobs or other flat equipment. Heating elements used there include resistance wires and tapes wound on a micanite insulator. With the steel cover in AISI 304 grade the heaters can be operated even in aggressive environments.

Application

- Plastics industry
- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Pharmacology
- Chemical industry
- Footwear industry



POWER:
6 W/cm²*

VOLTAGE:
acc. to customer's order*

OPERATING TEMPERATURE:
350°C*

SHEATHING MATERIAL:
micanite, AISI 304*

Ring heaters

Ring heaters have been widely used in industrial applications. They are installed i.a. in hot runner moulds and the equipment where standard band heaters cannot be used. Advanced production technology and high quality of materials allow us to produce heaters tailored to your needs.

Application

- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Plastics industry (moulds, injection moulders, punches)
- Pharmacology
- Chemical industry
- Wood industry
- Footwear industry
- Building industry
- Foundry industry
- Packaging industry



POWER:
in relation to a small area max.
25 W/cm² (high powers)*

VOLTAGE:
acc. to customer's order*

OPERATING TEMPERATURE:
500°C*

DIAMETER:
2-100 mm*

LENGTH:
20-400 mm*

SHEATHING MATERIAL:
AISI 304, AISI 321, AISI 316V,
BRASS*

Coil heaters

Coil heaters are applied in hot runner moulds and the equipment where standard band heaters cannot be used. They are used to plasticize plastics in injection moulders and to heat selected sections of industrial systems. They feature higher power as compared to band heaters and they are tighter

Application

- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Plastics industry (moulds, injection moulders, punches)
- Pharmacology
- Chemical industry
- Wood industry
- Footwear industry
- Building industry
- Foundry industry
- Packaging industry



POWER: in relation to a small area max. 25 W/cm ² (high powers)*	VOLTAGE: acc. to customer's order*	OPERATING TEMPERATURE: 600° C*	DIMENSIONS (with the possibility to install a thermocouple) 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 the possibility to install a thermocouple) 2,8 x 3,7 mm*	LENGTH: as a straight element 50-3000 mm (if uncoiled)*	SHEATHING TUBE MATERIAL: AISI 304, AISI 321*
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Ceramic band heaters

Band heaters are used to plasticize plastics in injection moulders and to heat selected sections of industrial systems. They can be used even in aggressive environments. The band housing is made of stainless steel. With the high quality of the ceramics used high power and high temperatures can be achieved.

Application

- Plastics industry
- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Pharmacology
- Chemical industry
- Footwear industry
- Foundry industry



POWER: 10 W/cm ² *	VOLTAGE: acc. to customer's order*	OPERATING TEMPERATURE: 650° C*	DIAMETER: min. 35-5000 mm*	WIDTH: 25-500 mm*	THICKNESS: 8-12 mm*
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Micanite band heaters

Heating elements in micanite band heaters are resistance wires and tapes wound on a micanite insulator. Housings are made of stainless steel. The bands are used to plasticize plastics in injection moulders and to heat selected sections of industrial systems. They can be used in aggressive environments.

Application

- Plastics industry
- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Pharmacology
- Chemical industry
- Footwear industry
- Foundry industry



POWER:
6 W/cm² *

VOLTAGE:
acc. to customer's order*

OPERATING TEMPERATURE:
350° C*

DIAMETER:
25-5000 mm*

WIDTH:
20-250 mm*

THICKNESS:
approx. 5 mm*

Hot nozzles

Hot nozzles are used in hot runner moulds at the end of the system. They feature simple and compact design, full tightness, quick start-up, uniform temperature distribution, no thermal expansion and low maintenance requirements. We offer systems in a fully assembled state.

Application

- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Plastics industry (moulds, injection moulders, punches)
- Footwear industry
- Packaging industry



POWER:
max. 25 W/cm²
(high power in relation to small areas)*

VOLTAGE:
acc. to customer's order*

OPERATING TEMPERATURE:
500° C*

DIMENSIONS:
acc. to customer's order*

Ceramic heaters

Ceramic heaters are used to heat plates and moulds to high temperatures. With the highest quality of the ceramics used high power and high temperatures on the heater surface can be achieved. Individual coiling design of the resistance element makes it possible to produce holes or notches exactly in accordance with the customer's requirements.

Application

- Plastics industry
- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Pharmacology
- Chemical industry
- Footwear industry
- Foundry industry



POWER:
10 W/cm²*

VOLTAGE:
acc. to customer's order*

OPERATING TEMPERATURE:
650° C*

WIDTH:
min. 18 mm*

LENGTH:
4000 mm*

THICKNESS:
5-10 mm*

Heaters for control cabinets

Heaters with radiators are intended for installation in standalone control cabinets. They protect them from the detrimental effect of moisture and low temperatures. They can also be used in other types of built-in electrical or electronic cabinets etc. Heater power and voltage are adapted to customer's needs.

Application

- Standalone control cabinets
- Other built-in cabinets



POWER:
80 W, 40 W or acc. to customer's order*

VOLTAGE:
230 V or acc. to customer's order*

Galvanic heaters

Galvanic heaters are used to heat technical baths. Their sheaths are made of quartz glass, Teflon® or high grade stainless steel according to the required resistance to the specific bath type. With the highest quality of the ceramics used high power and high temperatures on the heater surface can be achieved.

Application

- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Chemical industry
- Footwear industry
- Foundry industry
- Wood industry
- Drying stoves
- Furnaces



POWER:
5 W/cm²*

VOLTAGE:
acc to customer's order*

OPERATING
TEMPERATURE:
90° C*

DIAMETER:
40-60 mm*

LENGTH:
382-5000 mm*

SHEATHING MATERIAL:
AISI 304, AISI 316Ti, AISI 304
+ acc to customer's order**

CASING:
PP*

Heating coils

Heating coils are used in heaters, various types of furnaces and drying stoves. They are made of Kanthal or Nikrothal wires. They are suitable for operation in temperatures of 1200° C or higher. Depending on the wire type used they can feature e.g. high creep resistance or corrosion resistance.

Application

- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Plastics industry (moulds, injection moulders, punches)
- Pharmacology
- Chemical industry
- Footwear industry
- Foundry industry
- Wood industry
- Building industry



POWER:
acc to customer's order*

VOLTAGE:
acc to customer's order*

OPERATING TEMPERATURE:
MAX 1200°C*

LENGTH:
acc. to coil design*

MATERIAL:
Kanthal APM, Kanthal A1,
Kanthal HT, Nikrothal 80*

ELECTRICAL TERMINALS:
spiral, red, threaded rod, wires*

Temperature sensors

Our product portfolio includes the following temperature sensors to be used in heaters: J-type thermocouple (up to 650° C), K-type thermocouple (up to 1000° C) and Pt 100 sensor (up to 550° C).

Application

- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Plastics industry (moulds, injection moulders, punches)
- Pharmacology
- Chemical industry
- Footwear industry
- Foundry industry
- Wood industry
- Building industry



OPERATING TEMPERATURE:
Max 1000°C*

DIAMETER:
1,0*

LENGTH:
1000*

SHEATHING MATERIAL:
AISI 306, AISI 304, AISI 309 *

Flat & oval heaters

Flat & oval heaters are used to heat moulds, cutting & welding blades or other parts which require special solutions. They feature large heat transfer areas and good tightness. To ensure perfect parameters of our heaters we use the best raw materials in the production process.

Application

- Standalone control cabinets
- Other built-in cabinets



POWER:
5 W/cm²*

VOLTAGE:
acc to customer's order
(12-500 V)*

OPERATING TEMPERATURE:
acc. to intended use and steel
grade*

DIMENSIONS:
15 x 6 mm, 17 x 6 mm, 18 x 7 mm,
19 x 7 mm, 12 x 6 mm
or acc to customer's order*

LENGTH:
150-3000 mm*

SHEATHING MATERIAL:
AISI 304, AISI 316L, AISI 321*

Cartridge heaters

Cartridge heaters are used to heat solid bodies. They are usually installed in holes of metal parts but can also be used to heat liquids or gases. They are parts of special design which allow emission of large amount of heat from small areas. With the swaging technology employed they show excellent parameters.

Application

- Food industry (moulds)
- Automotive industry (injection moulders, moulds)
- Furniture industry (edgebanders, glue pots)
- Plastics industry (moulds, injection moulders, punches)
- Pharmacology
- Chemical industry
- Wood industry
- Footwear industry
- Building industry
- Foundry industry



POWER:
max. 25 W/cm²*

VOLTAGE:
any,
acc. to customer's order*

DIAMETER:
4-60 mm*

DIAMETER:
4-6000 mm*

SHEATING MATERIAL:
AISI 304, AISI 321*

Cooling and heating unit

The heating and cooling unit is made up of heating bands (usually ceramic), which are installed on aluminium heat sinks. The entire assembly is enclosed in a stainless steel housing to which a fan is connected, which is activated to cool the whole unit. Such a solution ensures optimum temperature control along the entire length of the extruder plasticising system.

Application

- Plasticisation of plastics in extruder cylinders
- Plastics industry



POWER:
7 W/cm²

VOLTAGE:
as per customer order*

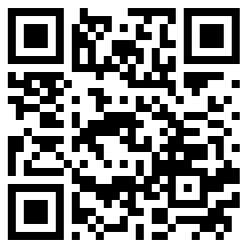
WORKING TEMPERATURE:
650°C*

DIAMETER:
as per customer order*

LENGTH:
max. 4000 mm

Do you have any questions? Do you need help or a price assessment?

Use our advice and get our offer.
We are here for you.



Sinkoplex

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We make industry hot

Non-standard solution

We are able to manufacture any heater type including untypical ones or those intended for special applications.

**For more information on our products visit
www.sinkoplex.pl
or contact our consultant.**

