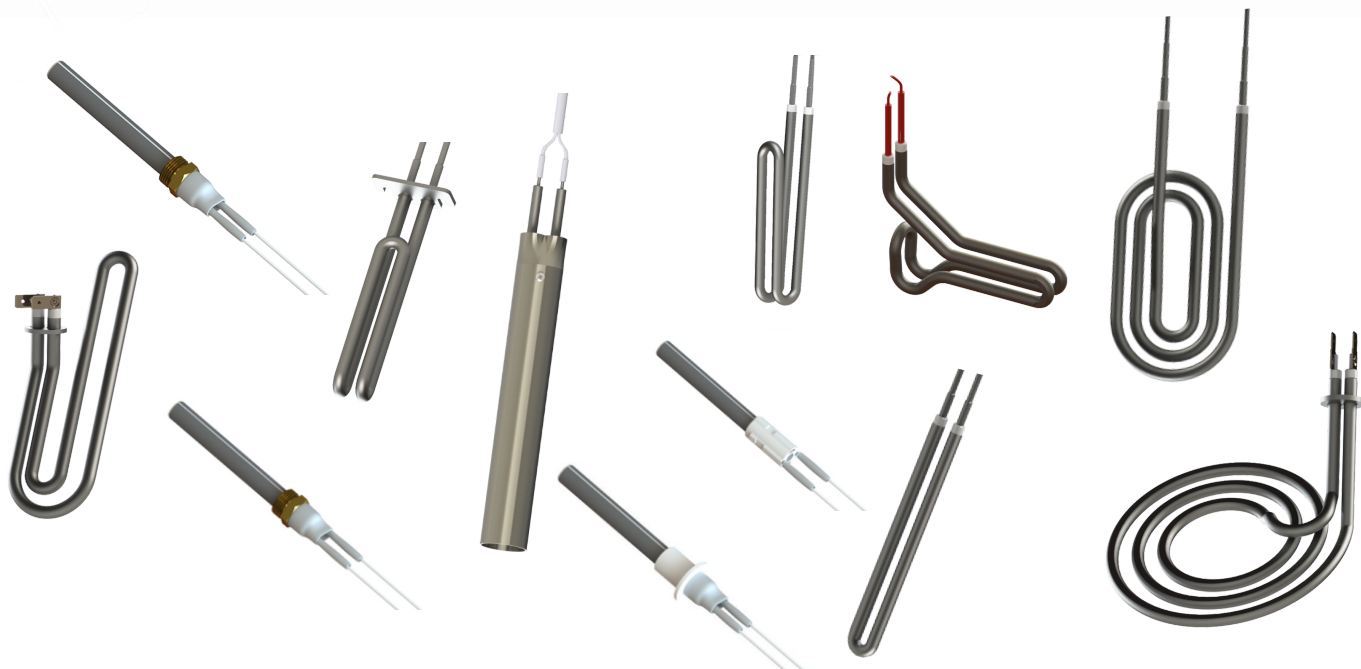


## Pellet and biomass igniters



**Operating temperature:**  
600 - 1000°C



**Short ignition time:**  
60-90 seconds.

**Made of:**  
AISI 309, AISI 321,  
INCOLOY 800, Ceramic



**Durable construction:**  
Tested at the Research and  
Development Center of SELFA GE S.A.  
for up to 100,000 cycles.

**Application:**  
Rapid heating of pellet or biomass  
using hot air.



**Compatibility:**  
Easy installation, ready-made product  
types, full configurational flexibility  
when ordering (power, size, electrical  
leads).

Heaters used by leading furnace manufacturers, such as:  
Kostrzewa, Pellas, Jumar, GT Heizung, Galmet, Kotły Żar, Eko Greń, Klimosz, Tekla, Rakoczy,  
Eta Pellets, Kotły Żar, Defro, Sas, Eco Warm, Eco Palnik, KIPI.

## Description

Our advanced igniters are the perfect devices for igniting pellet and biomass burners. Pellet and biomass igniters are key components in biomass-fired heating systems, enabling efficient and rapid fuel ignition. We offer igniters in two construction technologies: stainless steel tube igniters and ceramic igniters. **As a Polish manufacturer of heating elements, we will create custom tube igniters according to your specifications, with any power and shape that can be produced according to standards and using our technology, as well as with any electrical lead configuration chosen by the customer, available on the market.** Additionally, below we present a list of standard products available for order, compatible with most devices available on the market.

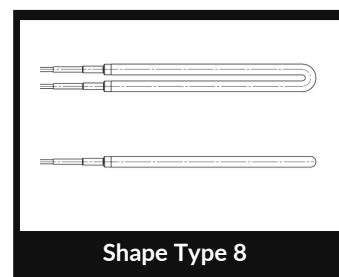
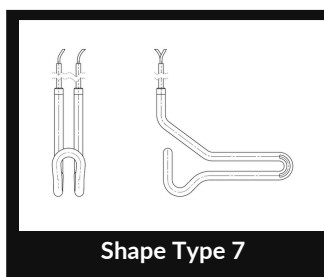
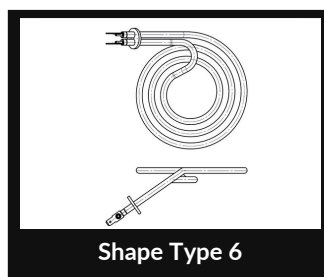
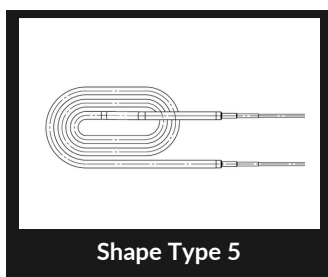
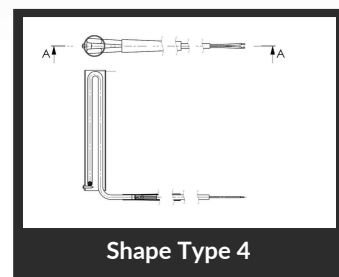
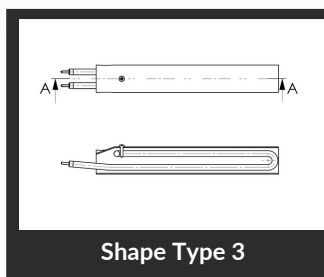
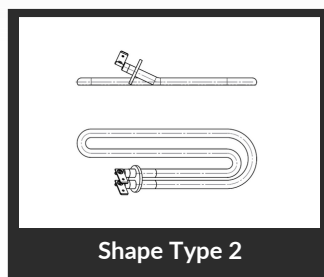
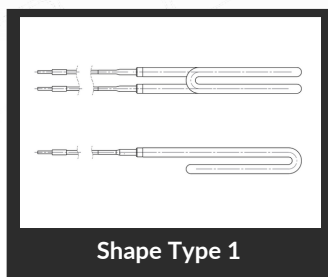
## Standard products

### Tube igniters

The tubular heating elements presented in the table are standard and available on the market as original equipment and spare parts. The table is arranged by power, from the smallest to the largest. Illustrative drawings of all shape types listed in the table, as well as other additional information, are explained in detail on the next page.

Serial number	Tube diameter [mm]	Voltage [V]	Power [W]	Surface load [W/cm <sup>2</sup> ]	Material of construction	Type of electrical connection	Wire length [mm]	Shape:**	Mounting element
P-1591	6,4	230	300	4,29	Incoloy 800	Straight spade terminal 6.3mm	n/a	Type 2	Round plate Ø20
A5347	6,4	230	330	8,97	AISI 309	Fiberglass wire	350	Type 8	None
A9703 / 21.990	6,4	230	350	5,18	AISI 309	Silicone wire	250	Type 1	Dedicated plate 40x25
21.999	6,4	230	350	5,18	Incoloy 800	Silicone wire	350	Type 1	None
A5443	6,4	230	370	5,58	AISI 309	Fiberglass wire	400	Type 1	None
01.248	6,4	230	370	5,61	AISI 309	Fiberglass wire	450	Type 1	None
A5054	6,4	230	400	6,1	AISI 309	Fiberglass wire	350	Type 1*	None
A8382	6,4	230	400	4,95	AISI 309	Fiberglass wire	300	Type 7	None
6660 / 01.221	6,4	230	425	6,71	AISI 309	Fiberglass wire	350	Type 1	None
A3631	6,4	230	450	6,15	Incoloy 800	Fiberglass wire	220	Type 1*	None
P-1879	8,5	230	500	4,72	Incoloy 800	Straight spade terminal 6.3mm	n/a	Type 2	Round plate Ø22
P-1434	6,4	230	500	7,11	Incoloy 800	Straight spade terminal 6.3mm	n/a	Type 2	Round plate Ø20
A9221 / 21.721	6,4	230	500	7,15	Incoloy 800	Straight spade terminal 6.3mm	n/a	Type 2	Round plate Ø20
A2131	6,4	230	550	4,68	AISI 321	Fiberglass wire	500	Type 5	None
P-1971	6,4	230	800	6,32	AISI 309 / AISI 304**	Silicone wire	800	Type 4	None
21.871	6,4	230	900	6,35	AISI 309 / AISI 304**	Silicone wire	310	Type 3	None
21.881	6,4	230	900	6,35	AISI 309 / AISI 304**	Silicone wire	1000	Type 3	None
A2220	6,4	230	900	6,35	AISI 309 / AISI 304**	Silicone wire	1000	Type 3	None
A9218 / 21.964	6,4	230	1000	6,42	Incoloy 800	Straight spade terminal 6.3mm	n/a	Type 6	Round plate Ø22

## Standard products (continued)



\* Element with additional bending or altered bending angle. For details and exact technical drawings, please contact our team.

\*\* Heating element made of AISI 309 mounted in a protective tube made of AISI 304.

\*\*\* The proportions of the element may vary slightly. The element may include a mounting plate or may be without a mounting. The overall structure and shape remain consistent with the one shown above.

## PSX Ceramic Igniters

We also offer ceramic igniters. The PSX series igniters with a ceramic flange are a solution that revolutionizes the biomass ignition process. This design allows for up to 1.4 times greater efficiency in the ignition process. The external structure type of the PSX radiant igniter heats the surrounding air through radiated heat, thereby causing indirect ignition of the pellets. The advanced igniters we offer are the perfect device for igniting pellet and biomass burners. They consume only a fraction of the energy needed to power hot air blowers or other devices used for igniting biomass. They are also suitable for igniting all types of fuel, including wood pellets, grains, corn, coal, coke, etc.

Serial number	Tube diameter [mm]	Voltage [V]	Power [W]	Material of construction	Type of electrical connection	Wire length [mm]	Mounting element
PSX-1-240-B	10	230	300	Ceramic	Fiberglass wire	330	Ceramic flange Ø26
PSX-2-240-B	10	230	300	Ceramic	Fiberglass wire	330	Ceramic flange Ø16.6
PSX-6-240-B	10	230	300	Ceramic	Fiberglass wire	330	Brass threaded flange 3/8"
PSX-7-240-B	10	230	300	Ceramic	Fiberglass wire	330	Brass insert Ø17 mm with 3/8" thread

