

Band Heaters · Pipe Heaters

Backed up by over 30 years experience, SHINI brand stainless steel band heaters and pipe heaters are well-known worldwide. The heaters are manufactured from imported top quality raw materials with advanced techniques. They are widely used in mould heaters, dryers, moulding machines, etc., ensuring long life and high efficiency.

Features:

- Band heaters adopt natural mica as insulation elements for its outstanding properties of heat resistance and insulation.
- Insulation elements of pipe heaters are made from imported magnesium powder and sticks which can endure high temperature and high voltages.
- Heat-resistant heating wires feature quick heat transmission, even heating and high voltage endurance.
- Use socket cap screws for ease and reliable installation.
- Adopt imported high quality stainless steel, constructed to endure high temperature with features of even heat radiation and attractive appearance.
- Specifications of band heaters and pipe heaters can be specified according to customer requirements.

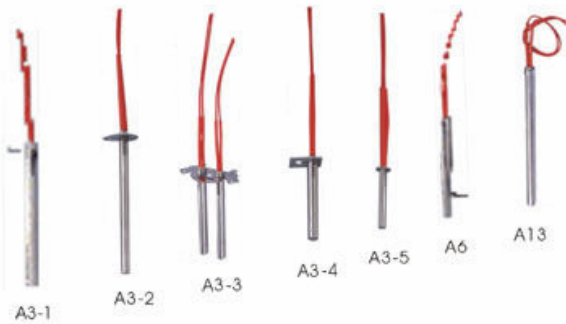


Band Heaters & Pipe Heaters



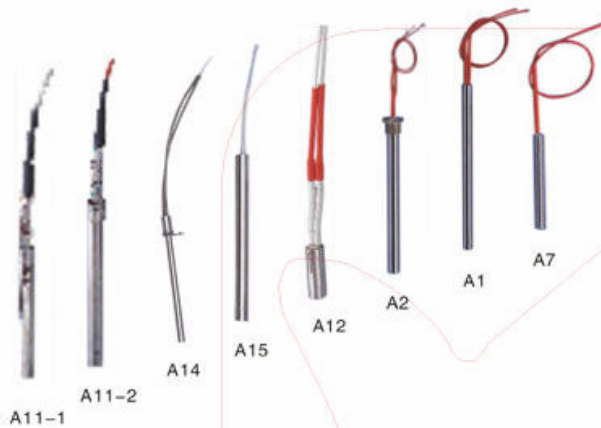
Magnesium powder & sticks

Single-head Pipe Heaters



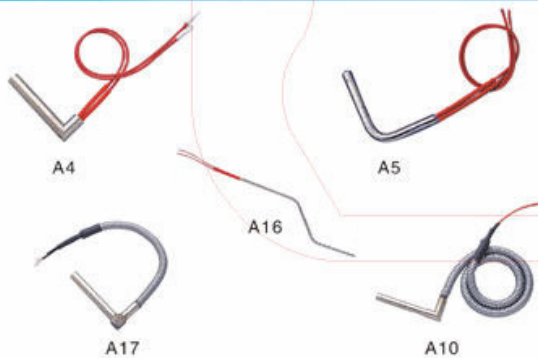
Made from high quality raw materials imported from Japan and America and stainless steel pipe with manufacturer's permanent mark on pipe surface.

- * Power: 60W to 90W per sq. inch (Not applicable for low voltage types)
- * Pipe diameter: $\phi 6 \sim \phi 24$
- * Mould temperature: below 250°C
- * Type A3, A6, and A13 suitable for mould with interlocks for firm positioning to prevent the heater fall off.



Made from high quality raw materials imported from Japan and America and stainless steel pipe with manufacturer's permanent mark on pipe surface.

- * Power: 60W to 90W per sq. Inch (Not applicable for low voltage types)
- * Pipe diameter: $\phi 6 \sim \phi 24$
- * Mould temperature: below 250°C
- * Sleeve steel pipe style A11 with metal mesh tube to keep away dusts and grains. Enhanced style A14 and teflon style A15 with heat-resistant teflon lead wires.
- * Ceramic beads style A12 can move along with the mould for safer operation.
- * Flange head style A2 can be used for heating water or oil.
- * Single wire style A7 with DC power supply suitable to be used with power voltage below 50V.
- * General style A1 is widely used in mould heating.



Made from high quality raw materials imported from Japan and America and stainless steel pipe with manufacturer's permanent mark on pipe surface.

- * Power: 60W to 90W per sq. Inch. (Not applicable for low voltage types)
- * Pipe diameter: $\phi 6 \sim \phi 24$
- * Mould temperature: below 250°C
- * S shape A16, right angle A4, bend pipe A5, type A17 and A10 can satisfy machines with different wiring requirements. Lead wire is covered by flexible metal tube to prevent dusts and impurities.



Made from high quality raw materials imported from Japan and America and stainless steel pipe with manufacturer's permanent mark on pipe surface.

- * Power: 60W to 90W per sq. inch. (Not applicable for low voltage types)
- * Pipe diameter: $\phi 6 \sim \phi 24$
- * Mould temperature: below 250°C
- * Heat radiation type A8 and A9 can be used to heat water in the mould or air. They feature even heating and quick heat transmission.

* Please supply us with detailed requirements concerning size, voltages, lead wire type, and applications in your order so that we can provide you most suitable products.

Band Heaters



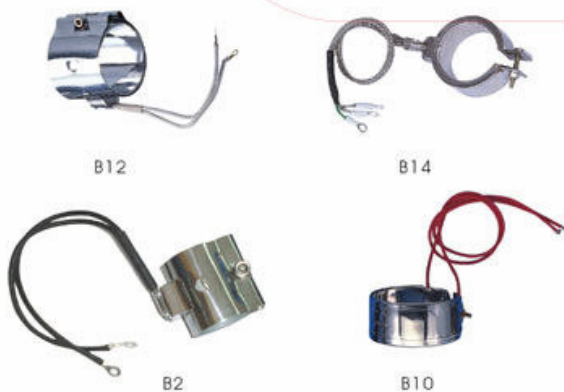
Adopt Japanese nickel-chrome heating wires with permanent manufacturer's mark on heater surface. Outer cover made from high quality stainless steel and insulation elements made with natural, golden and powder mica. Terminal post is protected from electrical leakage by using of ceramics.

- * Power (ring type): 25W per sq. inch.
- * Power (square type): 15W per sq. inch.
- * Size: From $\phi 50 \times 30L$ to $\phi 400 \times 300L$
- * Mould temperature: $200^{\circ}\text{C} \sim 250^{\circ}\text{C}$
- * Wiring method can meet customer requirements.
- * Standard style B1 for heating moulding machine screw.
- * Two-blade style B9 has four terminal posts for using with specific moulding machine models.
- * Thermometric hole style B11 with thermal sensing hole can detect moulding screw temperature for mounting direct to the nozzle of moulding machine.
- * Rear plug B8 with 45° power connection plug, suitable for HK style moulding machines.
- * Front plug style B13 with 90° power connection plug, suitable for HK style moulding machines.



Adopt Japanese nickel-chrome heating wires with permanent manufacturer's mark on heater surface. Outer cover made with high quality stainless steel and insulation elements made with natural, golden and powder mica. Terminal post is protected from electrical leakage by using of ceramics.

- * Power (General): 25W per sq. inch (Ring type)
15W per sq. inch (Square type)
- * Power (Ceramic): $6.5\text{w}/\text{cm}^2$
- * Size: From $\phi 30 \times 30L$ to $\phi 400 \times 300L$
- * Temperature (General): $200^{\circ}\text{C} \sim 250^{\circ}\text{C}$
- * Temperature (Ceramic): $350^{\circ}\text{C} \sim 450^{\circ}\text{C}$
- * Wiring method can meet customer requirements.
- * Front plug style B5 with 45° power connection plug.
- * Rear plug style B6 with 90° power connection plug.
- * Heat-resistant ceramic style B7 with 45° power connection plug. Type B1, B2, B5, B6, B12, B14 can also be made with ceramic.
- * Heat-resistant ceramic style B15 with heat-resistant ceramic and thermal sensing hole.
- * Rear shank style B3 with a handle can protect the soft lead wire.
- * Polygonal style S3 and U style S5 is used for electrical wire making machine.
- * Rectangular style S1 for flat mould. Thermal sensing hole can test mould temperature.

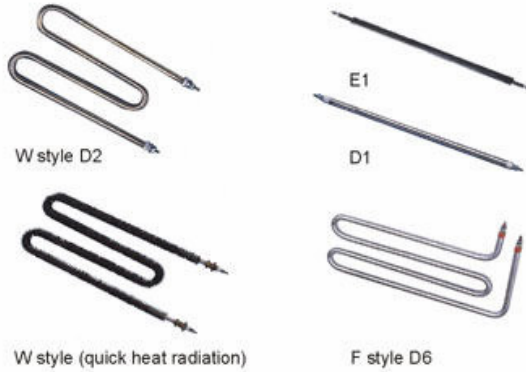


Outer cover made with high quality stainless steel and insulation elements made with natural, golden and powder three types of mica.

- * Power (General) 25W per sq. inch.
- * Power (Ceramic) : $6.5\text{w}/\text{cm}^2$
- * Size: From $\phi 30 \times 30L$ to $\phi 400 \times 300L$.
- * Temperature (General): $200^{\circ}\text{C} \sim 250^{\circ}\text{C}$
- * Temperature: (Ceramic): $350^{\circ}\text{C} \sim 450^{\circ}\text{C}$
- * Wiring method can meet customer requirements.
- * Thermometric hole style B12 with thermal sensing hole can test screw temperature for mounting to the nozzle of moulding machine. Lead wire is made from chrome steel.
- * Closed-ceramic style B14 for mounting to the nozzle of moulding machine.
- * Outlets style B2 for mounting to the nozzle of moulding machine.
- * Outlets edge style B10 uses heat-resistant wire for easiness of soldering.

* Please supply us with detailed requirements concerning size, voltages, lead wire type, and applications in your order so that we can provide you most suitable products.

Double-head pipe heaters



Adopt Japanese nickel-chrome heating wires, stainless steel pipe, high quality oxidized magnesium powder from America, and natural mica.

- * Pipe diameter: 8mm to 22mm
- * Pipe length: 200mm to 2500mm
- * Power (In motionless air) 3.1~3.5w/cm²
- * Power (In air flow) 4.3~4.8w/cm²
- * Power (In fluid) 5.3~5.8w/cm²
- * Double-head pipe heaters style D1, D2, E1, W and F style are mainly used either in motionless air or in airflow to heat up the air with heat-resistant ceramic terminal and precisely manufactured copper head. W style (quick heat radiation) features increased heat-radiation area, quick and even heating.



Adopt Japanese nickel-chrome heating wires, stainless steel pipe, high quality oxidized magnesium powder from America, and natural mica.

- * Pipe diameter: 8mm~22mm
- * Pipe length: 200mm~2500mm
- * Power (In air flow): 4.3~4.8w/cm²
- * SHD-50, SCD, and cabinet heater types are widely used in drying hoppers and drying cabinets for continuous supply of hot and dry airflow.



Adopt Japanese nickel-chrome heating wires, stainless steel pipe, high quality oxidized magnesium powder from America, and natural mica.

- * Pipe diameter: 8mm~22mm
- * Pipe length: 200mm~2500mm
- * Power (In motionless air): 3.1~3.5w/cm²
- * Power (In air flow): 4.3~4.8w/cm²
- * Power (In fluid): 5.3~5.8w/cm²
- * Double-head heaters type D5 (immersion), D3 and SD are mainly used in mould heaters, heating tanks, heating chambers for heating oil up to 300 °C. They are complete with stainless steel flange plate, high quality rubber plug with high standard soldering techniques and has passed anti-leakage test.



Adopt Japanese nickel-chrome heating wires, copper pipe, high quality oxidized magnesium powder from America, and natural mica.

- * Pipe diameter: 8mm~22mm
- * Pipe length: 200mm~2500mm
- * Power (in liquid): 5.3~5.8w/cm².
- * U style D2, immersion D4 and STM-910W adopt high quality copper pipe featuring quick heat-radiation and anti-corrosion. Other components include precisely made copper head, flange, heat-resistant ceramic tube, insulative bakelite, etc, ensuring safe operation. They are mainly used in water or water solutions.

* Please supply us with detailed requirements concerning size, voltages, lead wire type, and applications in your order so that we can provide you most suitable products.

Thermocouple



M8 thread thermocouple



Coupler thermocouple



M1/4 thread thermocouple



Lock style thermocouple



Thermocouple
(with thermal sensing hole)



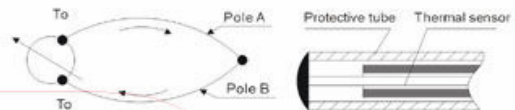
Ring style thermocouple

Thermocouples should be connected with thermometer for temperature display. They can be used to test air or liquid media temperature and surface temperature of solid material within a range from 0 to 400°C, suitable for applications in moulding machines, textile industry, foodstuff packaging and machinery.

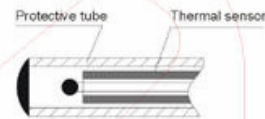
Thermocouple mainly consists of thermal sensor, protective tube, lead wires and fixing devices.

Length and diameter of thermal sensing part can be made to meet customer requirements.

Main features: wide testing range, long life, easy installation.



In-shell style



Insulative style

Heating wires



Adopt Japanese high quality heating wires and heat-resistant ceramics, featuring quick heating and heat transmission and insulation value above 200KV

- * Power: within 12KW
- * Voltage: 220V/380V

Heavy duty plug



With polished cast aluminium as its outer cover, insulative bakelite can endure 250°C high temperature.

- * Types: right-angle style, rectangle style
- * Voltage: 220V~600V
- * Mainly used with ring heaters, thermos bottle and other heating equipments as a safe and reliable power connection.

* Please supply us with detailed requirements concerning size, voltages, lead wire type, and applications in your order so that we can provide you most suitable products.

Installation and Application Regulations:

- 1) Make sure even contact surface and right installation to ensure proper functioning.
- 2) The heater should be used with temperature controller to avoid overheat problems.
- 3) Do not modify or add other elements to the units to make sure that they work properly.
- 4) Keep the heater in a dry environment to avoid poor insulation caused by water.
- 5) During installation, please check the specifications and power supply of heating elements are the same with required.
- 6) check if socket cap screws are tightly locked after installation.
- 7) After using the heaters for the first time, lock the heaters again to prolong life.
- 8) Heaters should be used under specified voltages. Using of a voltage regulator is suggested.

Technical parameters for single-head pipe heaters

Withstand voltages	Insulation strength	Allowable lead wire deviation	Allowable pipe diameter deviation	Allowable pipe length deviation
Above 1.5KV/5S	Above 20M Ω	± 10 mm	± 0.2 mm	± 2 mm
Allowable resistance deviation				
$\pm 15\%$ when power less than 200W	$\pm 10\%$ when power between 200W and 500W		$\pm 5\%$ when power more than 500W	

Note: Pipe diameter above 6.0mm, length within 800mm.

Technical parameters for double-head pipe heaters

Withstand voltages	Insulation strength		Allowable pipe diameter deviation	Allowable pipe length deviation	Allowable bend deviation	Allowable resistance deviation
	Cold	Hot				
Above 1.5KV/5S	Above 100M Ω	Above 2.5M Ω	± 0.5 mm	± 2 mm	± 2 mm	$\pm 5\%$

Note: Pipe diameter above 8.0mm, length within 2000mm.

Technical parameters for band heaters

Withstand voltages (cold)	Insulation strength	Allowable power deviation	Manufacturing standard	
			Ring	Square
Above 1000V	Above 20M Ω	$\pm 5\%$	25W per sq. inch	15W per sq. inch

Note: Ring heaters diameter above 25mm.

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