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Brochure Induction Heating Brazing Machine

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Manual induction brazing machines.



SK Brazing manufactures manual induction machines (high or medium frequency) that can be used for the manual brazing of various tube sizes. This machine is designed for manual brazing using a very compact and light weight gun design with a lightweight wire cable. The light gun and cable will provide the customer a distinct advantage for a manual brazing job. Our design is certainly one of the most compact induction gun designs in the world.

SK manual induction brazing machine advantages.

- 1) Easy to carry by hand due to the lightweight gun and cable.
- 2) Compact and easy-to-grip hand unit.
- 3) Frequency eddy & Hysteresis loss through the positive and negative poles offset are minimized due to the specially designed cable between the induction gun and the induction power generator.
- 4) Power loss and metal effect around the power cable are minimized due to advanced cable technology.
- 5) High frequency effect on an operator is reduced through the use of specially designed circuit for the high frequency cable & hand gun transformer.



Single station induction brazing machines.



For relatively small quantities, a single station induction brazing machine is a good choice. These machines are divided into brazing in an open air atmosphere and brazing in a gas atmosphere like hydrogen, nitrogen, argon, helium, mixed gas or vacuum.

Single station induction brazing machines in an open air atmosphere.

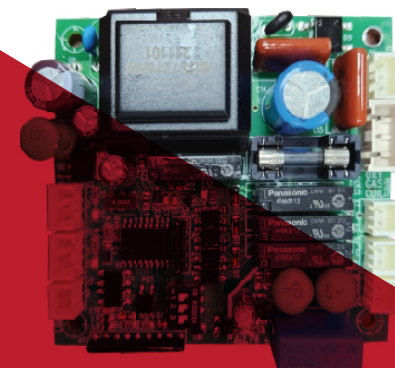
Single station carbide tool induction brazing machines.

The machines below are mainly designed for brazing carbide tips and faithful to the principle of brazing technology. In induction brazing, an induction coil design and a heating principle are very important for good brazing.



Single station induction soldering machine(7.5 KW).

This single station induction soldering machine is for soldering of PC boards.





Single station, airplane aluminum parts, coil memory induction brazing machine.

SK Brazing recently developed a single station airplane aluminum parts coil memory induction brazing machine. We made a memory unit of induction coil. We can use for many items with induction coil memory units. Also, we adapted flame heating unit to reduce the heat to a minimum because they are used for airplane application.



Electric motor rotor single induction brazing machine.

This machine is capable of brazing electric rotors by rotating a big motor assembly. This induction brazing machine has very high power(240 KW) to braze Min. 300mm ~ Max. 480mm OD motors with Max. 10 tons weight. This machine is capable of 3 stages of heat control.



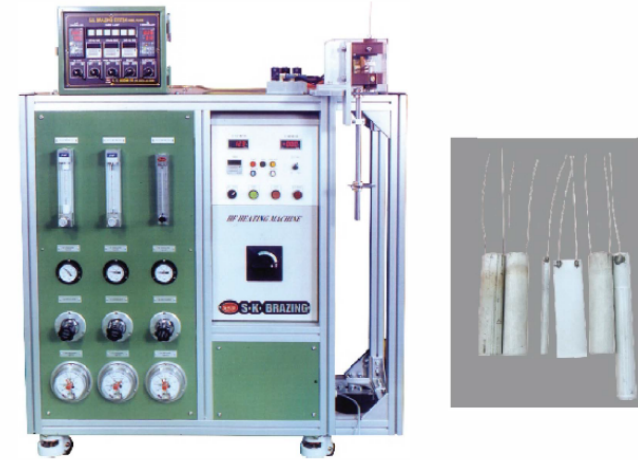
Single station induction brazing machines with gas atmosphere or vacuum.

SK Brazing has been developing a lot of single station induction brazing machines with various gas atmospheres such as hydrogen, nitrogen, argon, helium or mixed gas to improve the brazing quality. Most of these brazing methods do not require flux or acid cleaning after brazing.



Induction atmosphere ceramic heater brazing machine.

This induction brazing machine joins nickel wire to a ceramic heater for a hair dryer.



Ceramic heater brazing machine with inert atmosphere.

Single station semi-conductor parts coil memory argon atmosphere induction brazing machine.

SK Brazing recently developed single station, semi-conductor parts, coil memory induction brazing machine with an argon chamber. We made a memory unit of induction coil. We use argon induction atmosphere to braze copper rod to stainless steel with induction coil memory heating without using a flux. This machine is not for mass production, but it is for special order products for semi-conductor industry.



Induction atmosphere temperature sensor bulb to capillary tube brazing machine.

SK Brazing developed this induction brazing machine for brazing a stainless steel bulb to a capillary tube in an argon atmosphere without a brazing flux. It makes a very nice brazed joint that does not require a cleaning process after brazing.



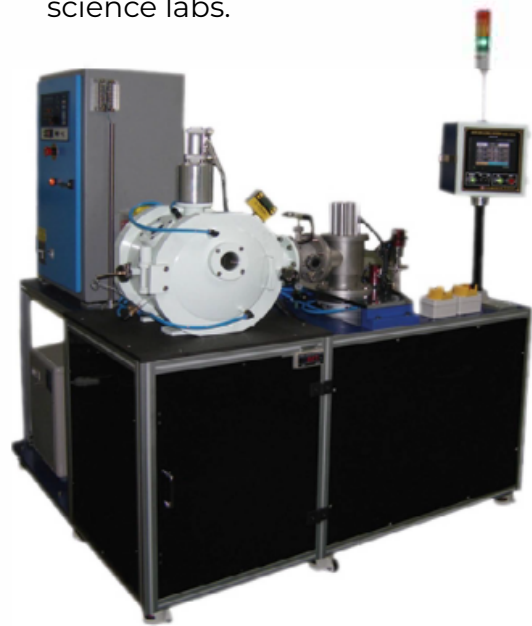
Thermo sensor tube brazing machine with inert atmosphere.





Induction vacuum chamber brazing machines.

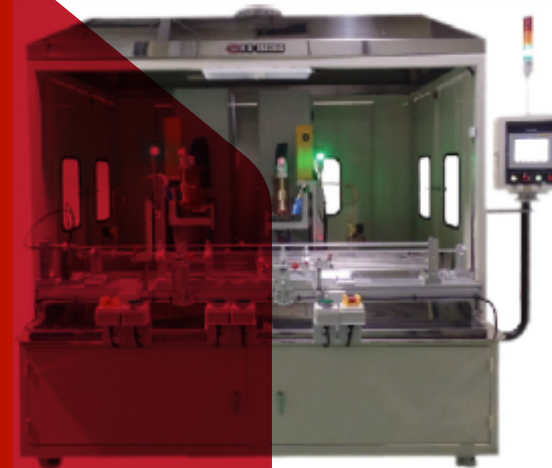
These single station vacuum induction brazing machines are used for induction heating in a vacuum chamber. This machine is a good choice for steady productivity with a high brazing quality. Also, it is used for research in science labs.



Shuttle induction brazing machines.

2 station shuttle line up induction two stems brazing machines.

As shown in the photo below, each induction unit is installed at 2 stations to alternately braise the two stems. These machines have the advantage of minimizing space when brazing long straight tubes. It is also capable of detecting a line plug after brazing. These machines have one of the most unique and creative designs in the world.



Induction atmosphere car muffler brazing machine.

SK Brazing has been developing a single station car muffler induction atmosphere brazing machine for brazing stainless steel tubes to a muffler body. It is made of a type in which an induction coil automatically supplies atmospheric gas.

This induction brazing method is effective in reducing the weight of the vehicle, as well as reducing costs by lowering the tube thickness of the material. This induction brazing method was developed recently and has a promising future.

