

Intelligent Manufacturer of ■ Induction Heating Equipment ■



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Suzhou Hongchuang High Frequency Heating Equipment Co.,Ltd.

About Hongchuang Heating

Suzhou Hongchuang High Frequency Heating Equipment Co., Ltd. is an company specializing design and manufacture industrial heating system with induction-based technology. With 20 years application experience and engineering expertise, the company is committed to providing customers with integrated industrial heating solution and innovative induction heating system in excellent quality, along with comprehensive services.

Hongchuang has a manufacturing plant in 4000m² near Shanghai, a professional and creative R&D team, a complete process laboratory. Regarding to production and process requirements, we provide manual and auto-mated production induction heating system for brazing, shrink fitting, hardening, heat treatment, forging & forming, plastic heating, wood drying, glass heating etc.

Our induction heating equipment has served more than 5000 customers in various industries, such as automotive, machinery, new energy, HVAC, construction, medical, food, aviation and more industrial fields.



20+

20 years' experience in induction heating



4000 m²+

4000m² manufacturing plant



5000+

Serve more than 5000 customers



 **Certificate**

Hongchuang is an ISO 9000-certified manufacturer with 71 patents and CE Certificate



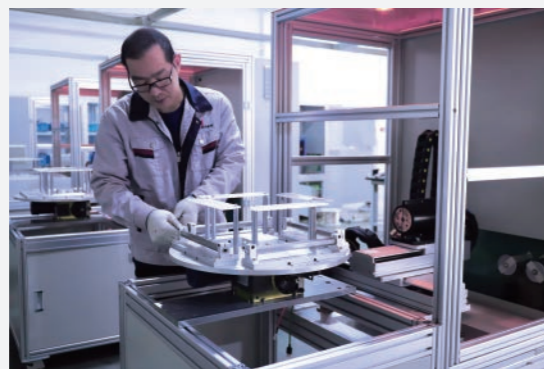
 **Customers**



Workshop



Induction Coil Making



Customized Induction Equipment Assembly



Induction Generator Aging Test

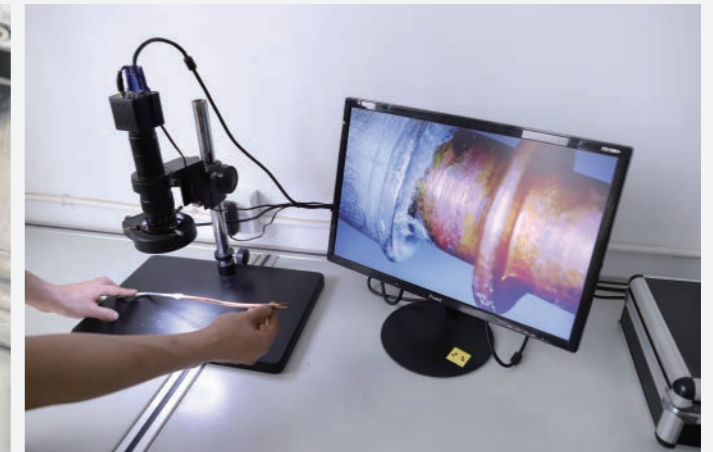
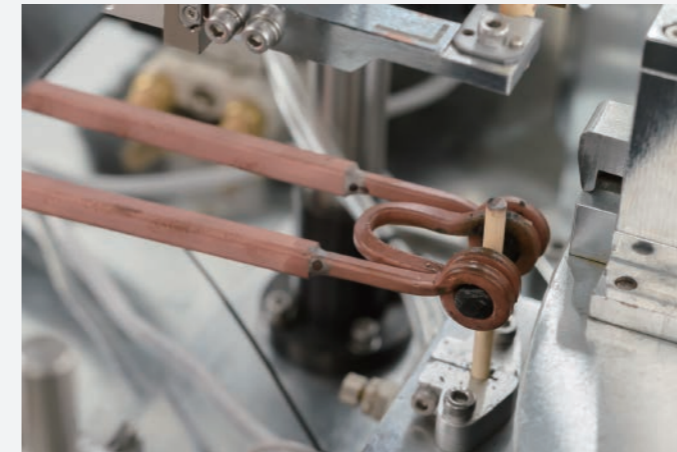


Laboratory

Outstanding Service

Free Lab Testing

You can send your parts and heating process requirement to us for free testing. Our experienced engineers have evaluated thousands of heating applications in the laboratory to meet your heating process needs.



Induction Coil

Customization of induction coil is available to ensure heating part quality, process efficiency, and manufacturing cost. We still provide coil design guide to our customers for their production development.



Induction Heating Consultation

Our expertised R&D Team offers innovative and effective heating solution for specific requirement of customers.

Technical Support

Our on site and on line technical support includes installation & commission service, repair and maintain, spare parts and training course.



Ultra-High Frequency Induction Generator



Feature

- Ultrahigh frequency (60kHz-200kHz), particularly suitable for small size workpieces heating. Ultra-fine metal minimum diameter 0.1mm can be brazing.
- Induction heater is small size and space saving.
- Auto frequency tracking, work heads easy to work at high efficiency.
- Heating reliable and stable.
- Heating without vibration, ensure accurate heating position.

Applications and Industries

Ultra-high Frequency Induction generator is suitable for small workpiece heating and hardening depth less than 2mm.

Model	CGP-6.0kw	CGP-12kw	CGP-20kw	CGP-30kw	CGP-40kw
Input Voltage(V)	Single-pahse 220V	Single-pahse 220V	Three-phase 380V/50-60Hz		
	50-60Hz	50-60Hz			
Current	0.25-25	0.4-50	0.6-30	1.0-45	1.2-50
Power Output(kw)	5.2	11	20	30	40
Working Frequency(kHz)	1000-1200	1000-1700	50-250	50-200	50-200
Duty Cycle	100%	100%	100%	100%	100%
Cooling Water Temp.	<35°C	<35°C	<35°C	<35°C	<35°C
Cooling Water Pressure	>1.1MPa	>0.5MPa	0.2MPa.6L/Min	0.2MPa.6L/Min	0.2MPa.6L/Min

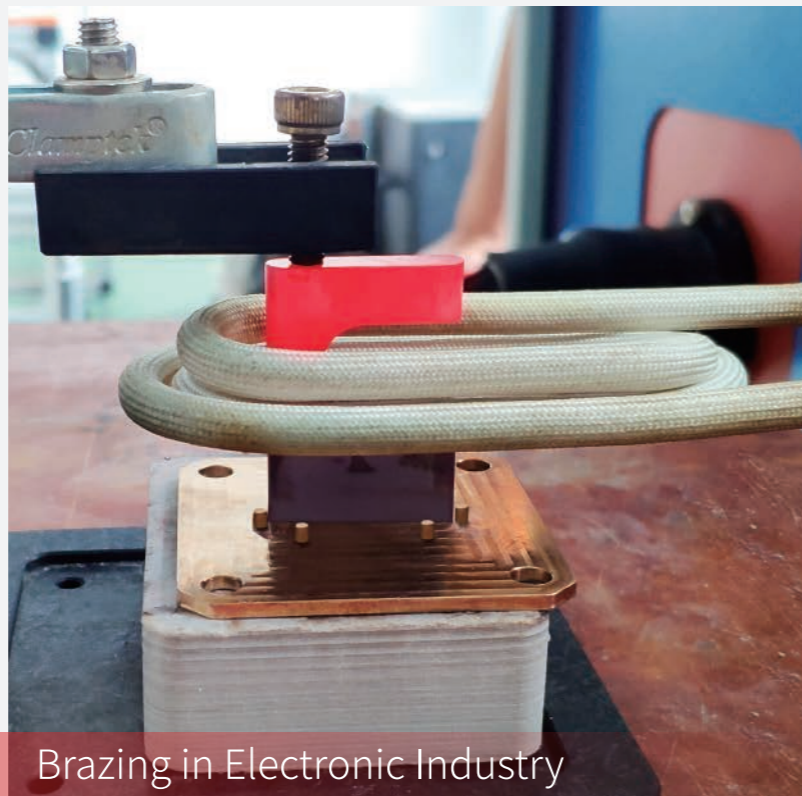
High Frequency Induction Generator

Feature

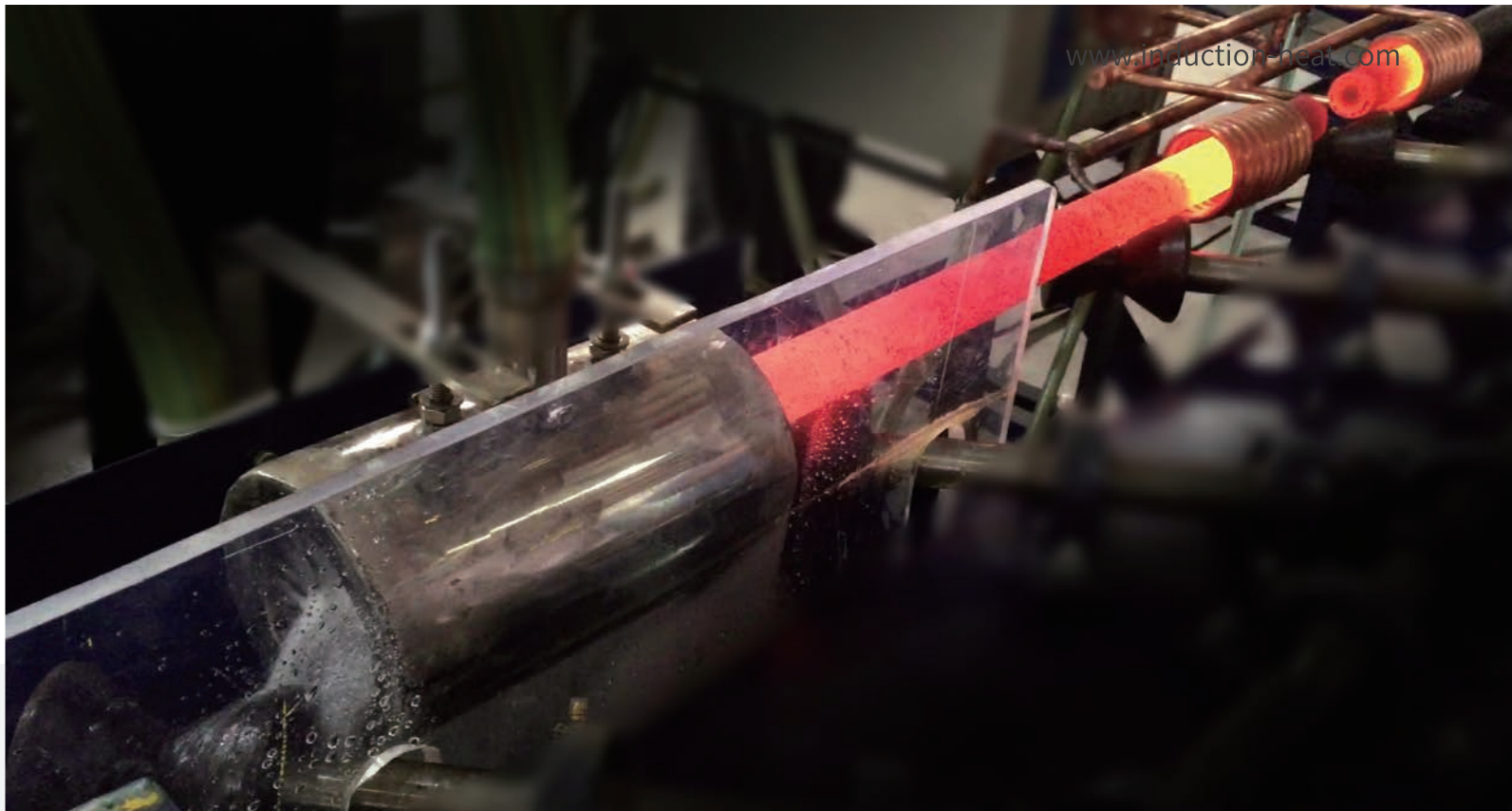
- High efficiency with IGBT inverter technology & LC series resonance circuit.
- Mitsubishi PLC provides a common signal transmission interface of 24V and 0V, facilitating interconnection with PLC, CNC control, and supporting equipment, achieving automation and integrated control.
- Accurate power adjustment ensure stable heating quality.
- Precise temperature control: In collaboration with the manufacturer,we have jointly developed infrared thermometers with a measurement accuracy of $\pm 1\%$ measuring range; Closed-loop control system with PID controller, achieving precise temperature control during induction heating process.



Mold Injection Heating



Brazing in Electronic Industry

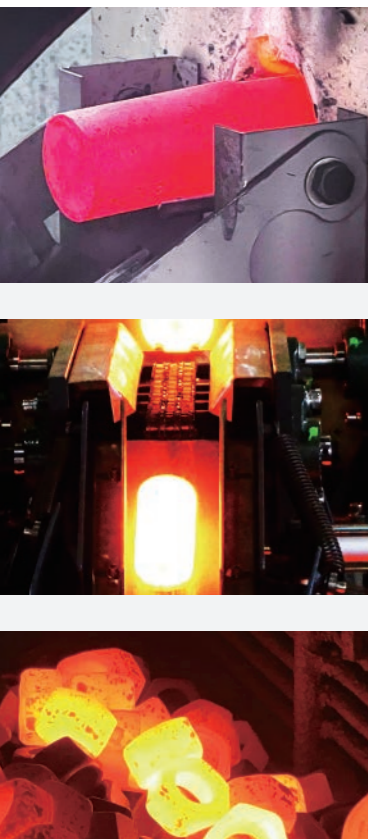


Induction Heat Treatment (Hardening & Tempering)

Applications and Industries

High Frequency Induction Heating Equipment have been widely used for brazing, shrink fitting, hardening, heat treatment, forging & forming, melting etc in various industries, such as automotive, machinery, new energy, HVAC, construction, medical, food, aviation.

Model	DIH-30	DIH-35	DIH-40	DIH-50	DIH-60	DIH-80
Max. Power Output	30kW	35kW	40kW	50kW	60kW	80kW
Duty Cycle	100%	100%	100%	100%	100%	100%
Power ADJ Range	5~100%	5~100%	5~100%	5~100%	5~100%	5~100%
Frequency	25~60kHz	10~20kHz	25~60kHz	10~25kHz	10~20kHz	10~20kHz
Input Voltage	3×380V/50Hz	3×380V/50Hz	3×380V/50Hz	3×380V/50Hz	3×380V/50Hz	3×380V/50Hz
Max. Input Current	45A	55A	60A	70A	100A	130A
Min. Cooling Water Flow	10L/Min	10L/Min	10L/Min	15L/Min	15L/Min	15L/Min
Cooling Water Temp.	Max.35℃	Max.35℃	Max.35℃	Max.35℃	Max.35℃	Max.35℃
Cooling Water Pressure	0.2~0.3MPa		0.1~0.3MPa		0.2~0.4MPa	
Ambient Temp.	+5℃~+40℃					



Induction Forging & Forming



120kw



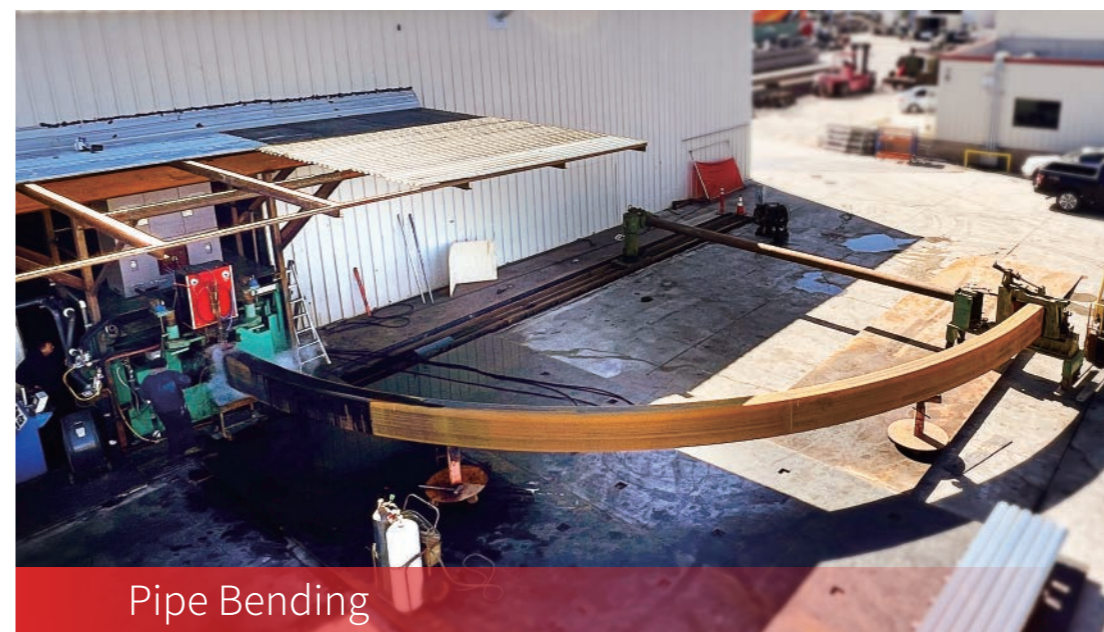
800kw

Medium Frequency Induction Generator

Feature

- High efficiency with IGBT inverter technology & LC series resonance circuit.
- Digital chip technology for power output control and faults detection reducing power variations or faults caused by environmental factors and usage time.
- Modular design, 80% of components on module groups are same, making maintenance and repair simple and convenient.
- Reserve AD, DA interfaces to provide analog signal transmission, digital signal transmission using the MODBUS protocol, RS-485. Induction heater is enables easy integration with PLC, CNC control.

Model	HCZ-120	HCZ-160	HCZ-200	HCZ-300	HCZ-400	HCZ-600	HCZ-800
Related Power Output	120kW	160kW	200kW	300kW	400kW	600kW	800kW
Frequency Range	5~8kHz	10~14kHz	0.5~8kHz	0.5~8kHz	0.5~8kHz	0.5~8kHz	0.5~5kHz
Input Current (AC)	185A	245A	305A	455A	610A	910A	1215A
Working Voltage	380V50Hz	380V50Hz	380V50Hz	380V50Hz	380V50Hz	380V50Hz	380V50Hz
Voltage Range	340V-420V	340V-420V	340V-420V	340V-420V	340V-420V	340V-420V	340V-420V
Power Source Require	150kVA	200kVA	250kVA	380kVA	500kVA	750kVA	1000kVA
Input Current Require	200A	270A	335A	500A	670A	1000A	1340A
Cooling Water Pressure	0.1Mpa-0.25Mpa						



Pipe Bending

Applications and Industries

Medium frequency induction generator is suitable for large workpiece heating or high productivity requirement of heating.



Pipe Coating

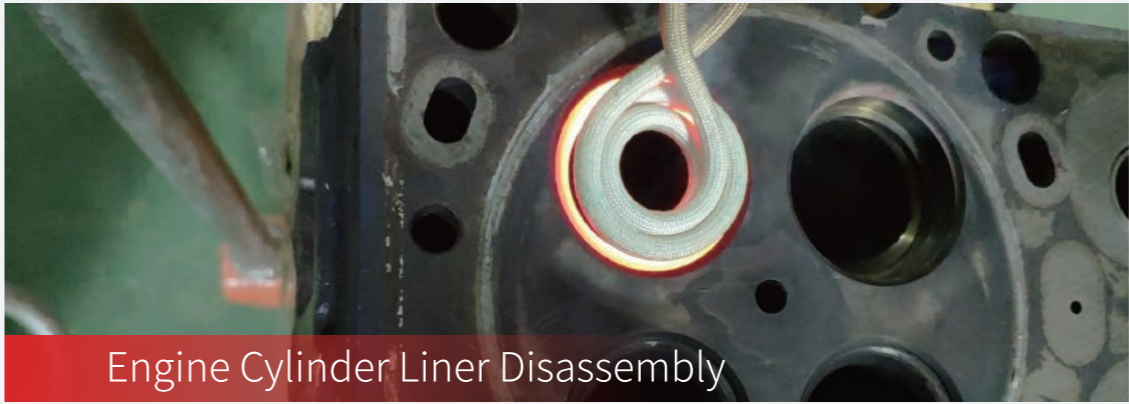


Portable Induction Heating Machine

Potable induction heating device is widely applied in industries such as refrigeration and HVAC, household appliances, automobile manufacturing, and medical devices. It is especially suitable for brazing, hot removing and other processes in various industries such as valve components for air conditioning refrigeration , tubing components for refrigerator/freezer , solar energy fittings, compressor parts, washing machines (pipe-to-pipe connections, pipe-to-shell connections, pipe-to-valve connections), automobile evaporators, compressor connections, short-circuit rings on motors.

Control Method	Digital Control
Heating Method	Manual & Auto (Temperature control)
Heating Current Settings	5-stages
Dispaly of working status	Heaint Time, Heating Temperature, Current

Model	PHC-S-35	PHC-S-40	PHC-S-50	PHC-S-60	PHC-S-80
Power Output	3-35KVA	3-40KVA	3-50KVA	3-60KVA	3-80KVA
Working Frequency	10~20KHz	10~60KHz	10~35KHz	10~20KHz	10~20KHz
Length of Output Cable	2-5M	2-5M	2-5M	2-5M	2-5M
Input Voltage	380V±10% 50/60Hz				
Input Ppwer Factor	0.95	0.95	0.95	0.95	0.95
Breaker	3P-63A	3P-63A	3P-80A	3P-125A	3P-125A
Cooling Water Temperature (Input)	35°C	35°C	35°C	35°C	35°C
Water pressure Max/Min	4/6bar	4/6bar	4/6bar	4/6bar	4/6bar
Working Temperature	+5°C~+35°C	+5°C~+35°C	+5°C~+35°C	+5°C~+35°C	+5°C~+35°C



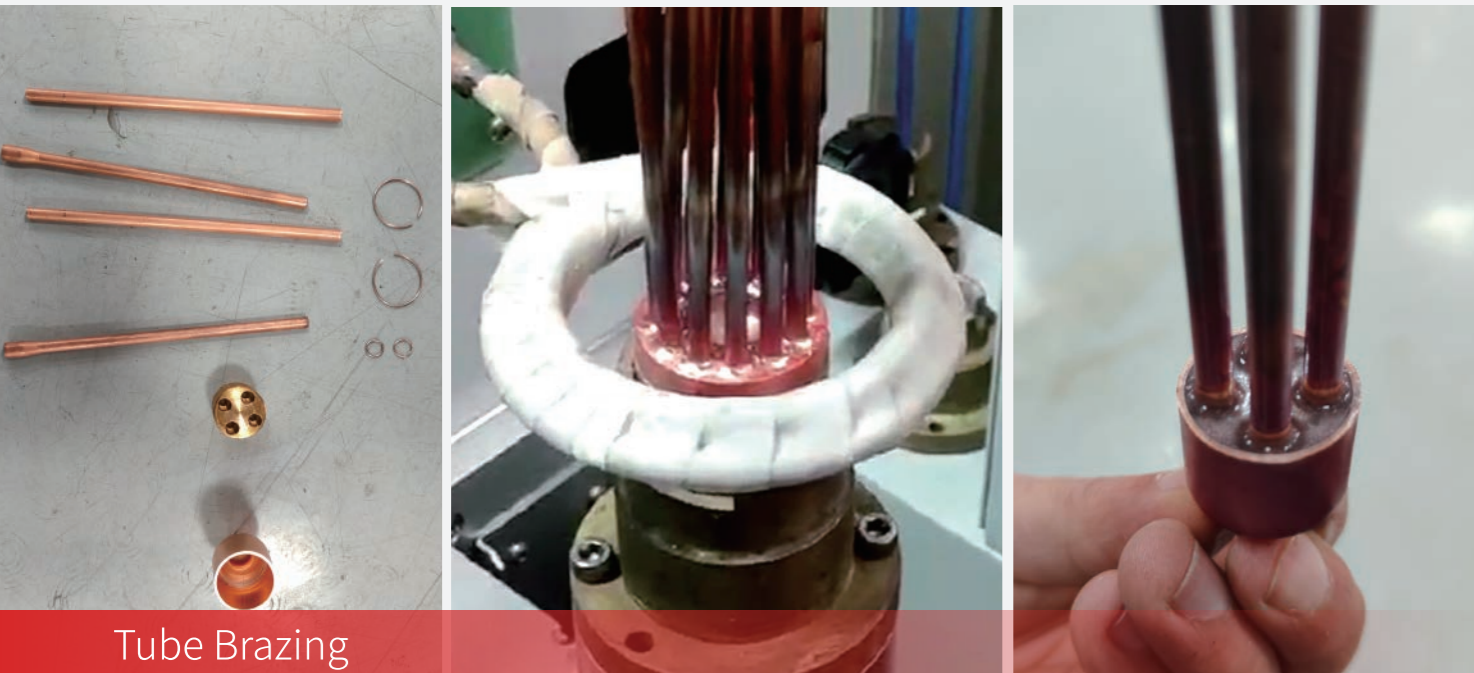
Engine Cylinder Liner Disassembly



Screw Removal



U-shaped Tube Brazing



Tube Brazing



Two Stations
Induction Machine
for Tube Brazing



Induction Brazing
Machine for Electrodes
Brazing of Car Battery



Linear Drive Induction
Brazing Equipment

Automation Induction Brazing Equipment

Hongchuang has 20 years experience of induction brazing and offer customized automatic system based on variety brazing process and production line.

Feature

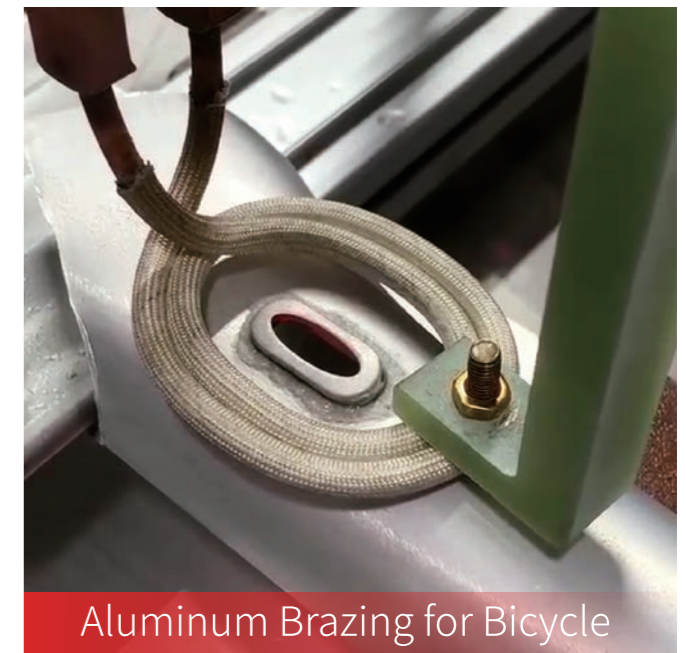
- Multiple-segment settings for induction heating: There are 5 segment basically and can be customized according to customer requirements.
- Precise temperature control: In collaboration with the manufacturer, we have jointly developed infrared thermometers with a measurement accuracy of $\pm 1\%$ Measuring range; Closed-loop control system with PID controller, achieving precise temperature control during induction heating process.
- Accurate heating: Heating time can be accurate to 0.1 seconds.
- Data Storage: Multiple process parameters storage with one-click for data retrieval.
- Plentiful interfaces: Can be connected to industrial buses such as RS-485, Profibus, CAN etc. HCGP induction heater is easier to integrated with other machine and achieve production automation.
- Induction brazing system can be multiple heating stations, linear drive, rotary index type and other types for variety workpieces loading and composite process requirement.

Applications and Industries

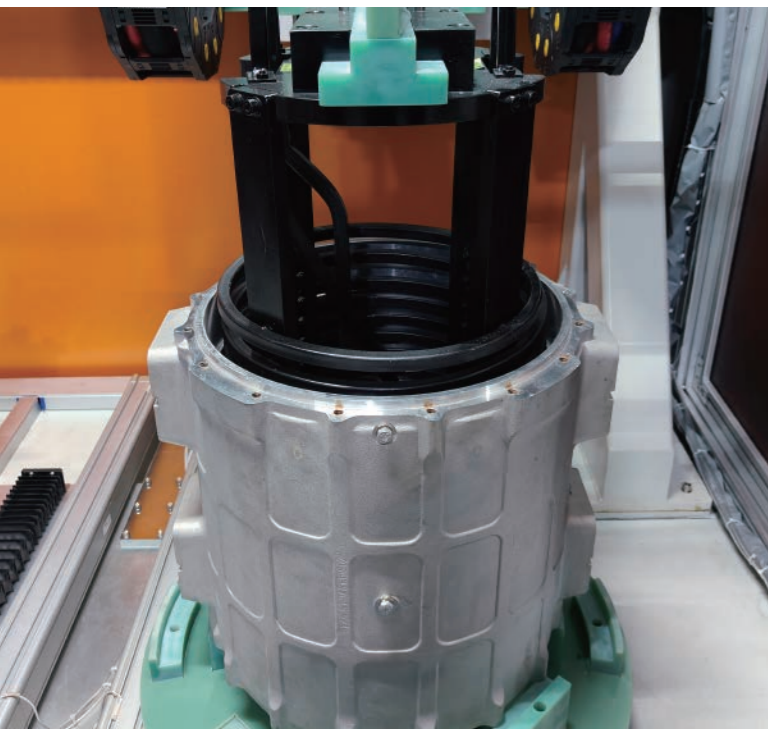
Induction brazing process have been used on a wide variety of material and part configurations jointing.



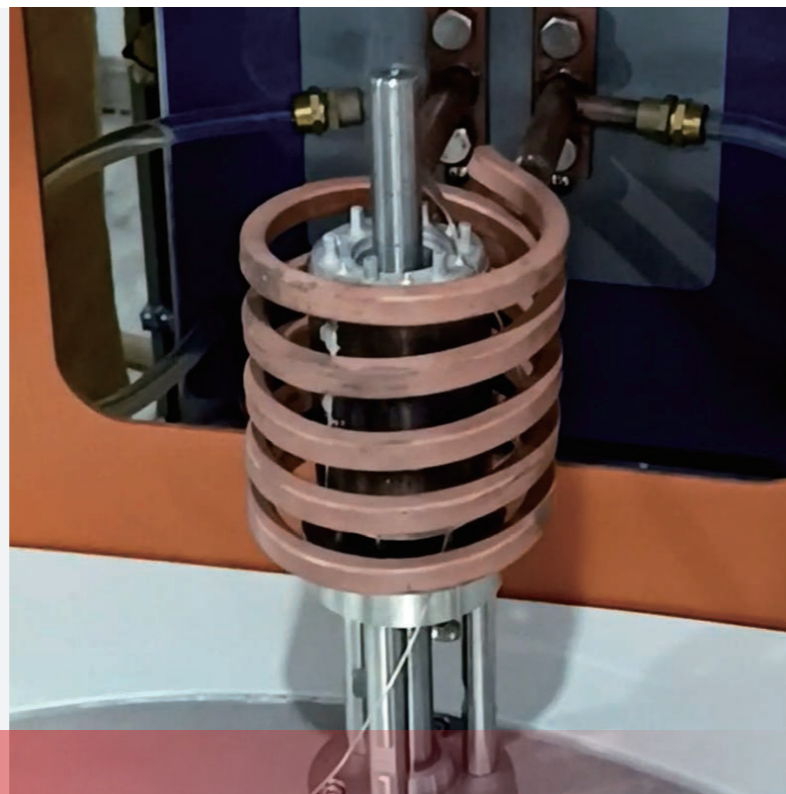
Copper Brazing at HVAC



Aluminum Brazing for Bicycle



Shrink Fitting for Stator & Rotor of Motor



Induction Shrink Fitting Equipment

Feature

- Shrink Fitting Machine is Integrated design with rotary indexing, loading manually or loading by robot arm, feeding, heating, fitting and unloading automatically.
- Workpieces is heating with induction, precise localize heat meet tight production tolerances.
- Multiple-segment settings for induction heating: There are 5 segment basically and can be customized according to customer requirements.
- Precise temperature control: In collaboration with the manufacturer, we have jointly developed infrared thermometers with a measurement accuracy of $\pm 1\%$ Measuring range; Closed-loop control system with PID controller, achieving precise temperature control during induction heating process.
- Accurate heating: Heating time can be accurate to 0.1 seconds.
- Data Storage: Multiple process parameters storage with one-click for data retrieval.
- Plentiful interfaces: Can be connected to industrial buses such as RS-485, Profibus, CAN etc.
- Induction heater is easier to integrated with other machine and achieve production automation.
- Customization available for different type of workpieces such as motor housing, stator and rotor, shaft, gear etc.

Shrink Fitting & Disassembly

Our Induction shrink fitting equipment use for parts fit or removal mainly in the automotive industry and the production of electric motors.



Automatic Shrink Fitting System for stator and rotor



Roller Shrink Fitting



Gear Fitting

Induction Hardening Machine

Feature

- Induction heating, shaft travel and cooling is under CNC Control to guaranty accurate heating and cooling.
- Fast heating increase the productivity.
- Flexible design and control adaptable to a wide variety of hardening parts.
- Customization is available for larger & small and various applications with induction hardening solution.
- Easy automation and work with production line.
- High heating efficiency & energy saving.



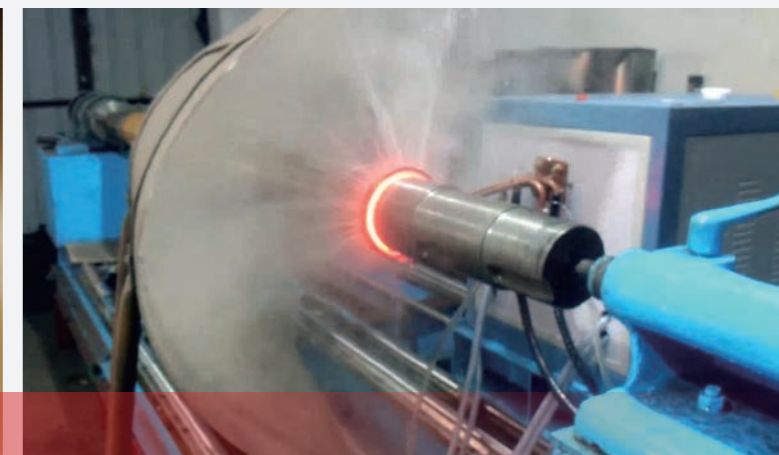
Automated Induction
Hardening System



Quenching Machine Tool



Induction Hardening



Other Integrated Automation Induction Heating Machine

Automated Induction Melting System

Melting capacity: 5kg to 50kg

Power output: 30-120kW

High heating efficiency and melting productivity

Hongchuang automation induction melting machine is customized for different metal melting material such as aluminum, brass, steel, iron ore, stainless steel, and other non-ferrous metals.



Induction Melting

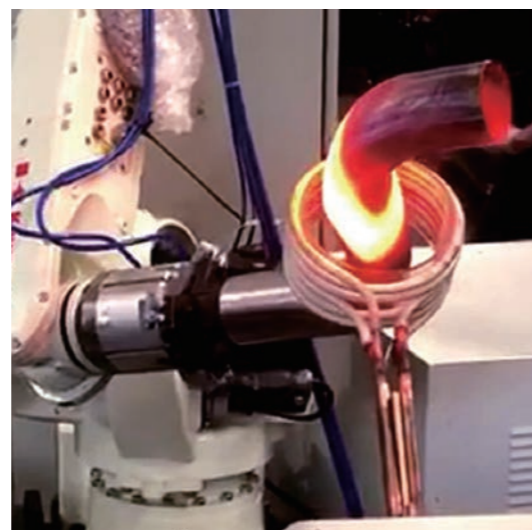
Automation Induction Annealing Equipment

Induction annealing for rods, pipes, threaded bar and other parts etc. Hongchuang automated

Induction annealing equipment can be custom design with various loading and feeding method, high efficiency induction heating for variety of automation induction annealing process.

Power output of machine: 10kW-200kW

Frequency of machine: 5KHz-60KHz



Induction Annealing

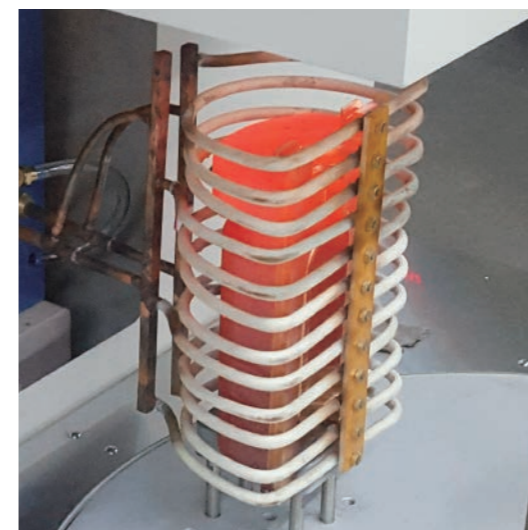
Turntable Induction Mould Heating Equipment

Hongchuang induction mold heating equipment is suitable for heating molds in various shapes.

Heating Temperature up to 1200°C

Power output of machine: 10kW-120kW

Frequency of machine: 10KHz-60KHz



Induction Mold Heating

Automation Induction Heater for steel welding

This machine is widely used for Preheating before welding and post-welding heat treatment of special steel, such as pipe, steel plate, etc. Preheating steel before welding can reduce stress, improve welding strength, and prevent cracking. Postheating is used for hydrogen elimination, annealing, tempering, normalizing and other processes.



Pre-heating & Post-heating