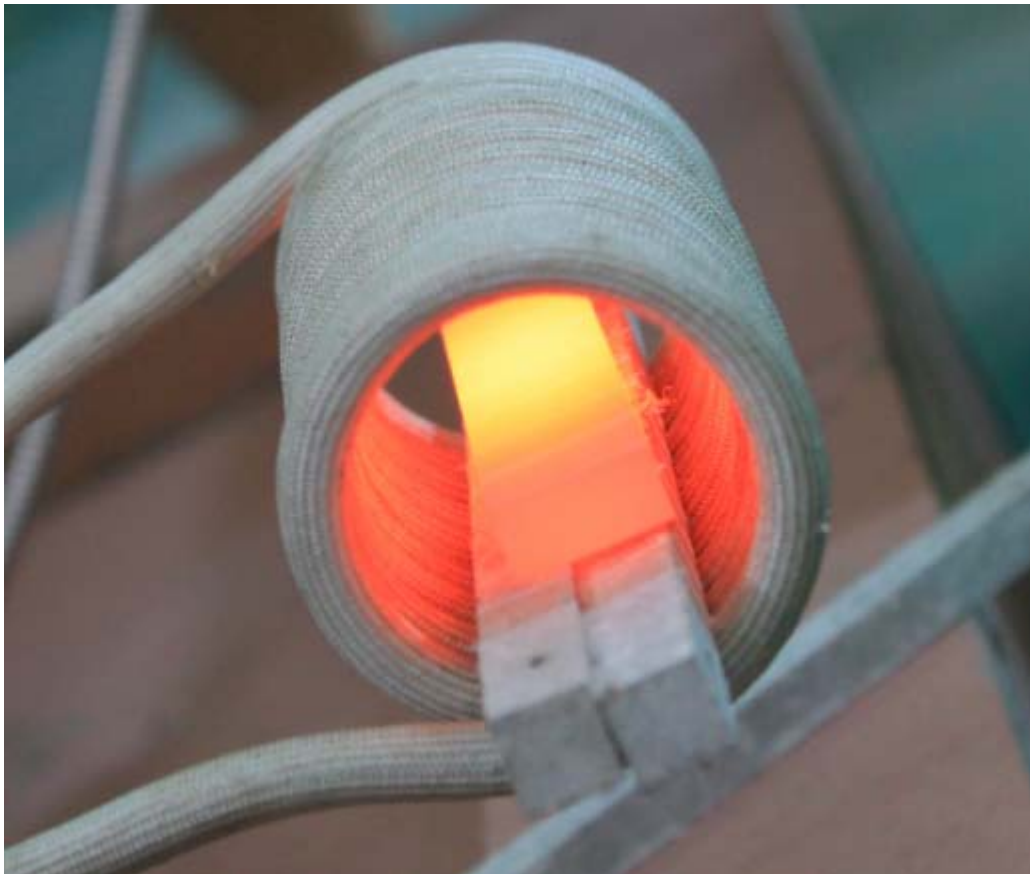




HengXin Science And Technology Limited of China

Product Catalog



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Induction Heating is a method of **non-contact heating** for conductive especially metal materials, when an alternating electrical current is applied to the primary of a transformer; an alternating magnetic field is created. According to **Faraday's Law**, if the secondary of the transformer is located within the magnetic field, an electric current will be induced.

In a basic induction heating setup, a solid state RF power supply sends an AC current through an inductor (often a copper coil), and the part to be heated (the workpiece) is placed inside the inductor. The inductor serves as the transformer primary and the part to be heated becomes a short circuit secondary. When a metal part is placed within the inductor and enters the magnetic field, circulating eddy currents are induced within the part.

These eddy currents flow against the electrical resistivity of the metal, generating precise and localized heat without any direct contact between the part and the inductor. This heating occurs with both magnetic and non-magnetic parts, and is often referred to as the "**Joule effect**", referring to **Joule's first law** – a scientific formula expressing the relationship between heat produced by electrical current passed through a conductor.

Secondarily, additional heat is produced within magnetic parts through hysteresis – internal friction that is created when magnetic parts pass through the inductor. **Magnetic materials** naturally offer electrical resistance to the rapidly changing magnetic fields within the inductor. This resistance produces internal friction which in turn produces heat.

In the process of heating the material, there is therefore no contact between the inductor and the part, and neither are there any combustion gases. The material to be heated can be located in a setting isolated from the power supply; submerged in a liquid, covered by isolated substances, in gaseous atmospheres or even in a vacuum.

[HengXin Science And Technology Limited](#) is experienced in producing Induction Heating Machine and Induction Heating Power Supply, induction heating equipments now can be used in induction heating hardening, induction heat treatment, induction brazing, induction hardening, induction welding, induction forging, induction quenching, induction soldering induction melting and induction surface treatment applications, all of our induction heating machines are produced under CE standard, quality is top in China.



Parameters of Ultra-High Frequency Induction Heating Machines:

Type	Power Supply	Input Current	Output Power	Max. Frequency	Input Power	Cooling Water	Normal Size (cm)	Net Weight (kg)
HX-05AB-UHF	6KVA	23A	5KW	1.5MHz	220VAC, 50Hz, Single Phase	>0.2 MPa, 2-5 L/Min, <40 °C	Main: 43 X 35 X 13 Head: 23 X 10 X 12	10+6
HX-06A-UHF	6.5KVA	27A	6KW	1.1MHz	220VAC, 50Hz, Single Phase	>0.2 MPa, 5 L/Min, <40 °C	58 X 26 X 50	23
HX-06AB-UHF	6.5KVA	27A	6KW	1.1MHz	220VAC, 50Hz, Single Phase	>0.2 MPa, 5 L/Min, <40 °C	Main: 52 X 24 X 50 Head: 14 X 14 X 10	17+6
HX-10A-UHF	12KVA	15A	10KW	900KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 5 L/Min, <40 °C	58 X 26 X 50	30
HX-10AB-UHF	12KVA	15A	10KW	900KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 5 L/Min, <40 °C	Main: 52 X 24 X 50 Head: 14 X 14 X 10	26+6
HX-20AB-UHF	23KVA	30A	20KW	600KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 5 L/Min, <40 °C	Main: 55 X 25 X 45 Head: 49 X 26 X 37	29+24
HX-30AB-UHF	34KVA	45A	30KW	500KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 5 L/Min, <40 °C	Main: 55 X 25 X 45 Head: 49 X 26 X 37	32+25
HX-40AB-UHF	45KVA	61A	40KW	400KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 7.6 L/Min, <40 °C	Main: 65 X 34 X 55 Head: 51 X 30 X 45	49+28
HX-60AB-UHF	66KVA	90A	60KW	400KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 10 L/Min, <40 °C	Main: 65 X 34 X 55 Head: 51 X 30 X 45	52+30



Parameters of High Frequency Induction Heating Machines:

Type	Power Supply	Input Current	Output Power	Max. Frequency	Input Power	Cooling Water	Normal Size (cm)	Net Weight (kg)
<u>HX-05A-HF</u>	6KVA	23A	5KW	250KHz	220VAC, 50Hz, Single Phase	>0.2 MPa, 6 L/Min, <40 °C	18 X 33 X 41	16
<u>HX-15A-HF</u>	15KVA	36A	8KW	100KHz	220VAC, 50Hz, Single Phase	>0.2 MPa, 7 L/Min, <40 °C	54 X 20 X 45	24
<u>HX-15AB-HF</u>	15KVA	36A	8KW	100KHz	220VAC, 50Hz, Single Phase	>0.2 MPa, 7 L/Min, <40 °C	Main:54X20X45 Head:32X30X35	11+13
<u>HX-25A-HF</u>	25KVA	27A	18KW	100KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 7.6 L/Min, <40 °C	56 X 22 X 51	29
<u>HX-25AB-HF</u>	25KVA	27A	18KW	100KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 7.6 L/Min, <40 °C	Main: 56X22X51 Head: 32X30X35	18+14
<u>HX-30AB-HF</u>	30KVA	39A	26KW	100KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 7.6 L/Min, <40 °C	Main: 60 X 26 X 54 Head: 45 X 25 X 39	35+30
<u>HX-40AB-HF</u>	45KVA	57A	38KW	100KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 7.6 L/Min, <40 °C	Main: 60 X 25 X 54 Head: 50 X 26 X 42	36+35
<u>HX-60AB-HF</u>	66KVA	78A	52KW	100KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 7.6 L/Min, <40 °C	Main: 61 X 28 X 54 Head: 51 X 26 X 42	37+36
<u>HX-70AB-HF</u>	72KVA	90A	60KW	100KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 9 L/Min, <40 °C	Main: 79 X 38 X 59 Head: 57 X 30 X 47	54+47
<u>HX-80AB-HF</u>	90KVA	120A	80KW	100KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 10 L/Min, <40 °C	Main: 72 X 60 X 100 Head: 85 X 42 X 65	85+65
<u>HX-100AB-HF</u>	110KVA	150A	100KW	100KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 10 L/Min, <40 °C	Main: 72 X 60 X 100 Head: 85 X 42 X 65	90+70



Parameters of Medium Frequency Induction Heating Machines:

Type	Power Supply	Input Current	Output Power	Max. Frequency	Input Power	Cooling Water	Normal Size (cm)	Net Weight (kg)
<u>HX-25AB-MF</u>	28KVA	37A	25KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 8 L/Min, <50 °C	Main:64X28X55 Head:51X26X41	38+32
<u>HX-40AB-MF</u>	42KVA	60A	40KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 8 L/Min, <50 °C	Main: 64X28X55 Head: 51X26X41	40+32
<u>HX-60AB-MF</u>	63KVA	91A	60KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 9 L/Min, <50 °C	Main:78X37X62 Head:56X26X47	54+42
<u>HX-80AB-MF</u>	89KVA	120A	80KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 10 L/Min, <50 °C	Main: 106X60X72 Head: 85X42X65	85+65
<u>HX-100AB-MF</u>	100KVA	150A	100KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 10 L/Min, <50 °C	Main:106X79X70 Head: 86X42X65	100+70
<u>HX-120AB-MF</u>	128KVA	180A	120KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 12 L/Min, <50 °C	Main:106X70X87 Head:85X42X75	115+75
<u>HX-160AB-MF</u>	170KVA	240A	160KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 15 L/Min, <50 °C	Main:106X70X87 Head:85X42X75	135+85
<u>HX-200AB-MF</u>	220KVA	300A	200KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 20 L/Min, <50 °C	Main:130X115X80 Head: 95X50X85	280+120
<u>HX-250AB-MF</u>	280KVA	375A	250KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 25 L/Min, <50 °C	Main:160X116X80 Head:156X50X85	340+150
<u>HX-300AB-MF</u>	320KVA	450A	300KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 30 L/Min, <50 °C	Main:200X130X80 Head: 160X60X90	400+200
<u>HX-500AB-MF</u>	550KVA	750A	500KW	20KHz	380VAC, 50Hz, Three Phase	>0.2 MPa, 50 L/Min, <50 °C	Main:260X130X90 Head:200X100X 0	520+260



Parameters of Medium Frequency Induction Heating Machines HX-1200KW-SCR-MF

Type	HX-1200KW-SCR-MF
Power Supply	1300KVA
Base On	SCR (thyristor)
Output Power	1200KW
Max. Frequency	2KHz
Duty cycle	60%
Input Power	AC 380V,50Hz, Triphase
Normal Size (cm)	Custom Build
Net Weight (kg)	1.8 Ton



Parameters of Medium Frequency Induction Heating Machines HX-1500KW-SCR-MF

Type	HX-1500KW-SCR-MF
Power Supply	1600KVA
Base On	SCR (thyristor)
Output Power	1500KW
Max. Frequency	2KHz
Duty cycle	60%
Input Power	AC 380V,50Hz, Triphase
Normal Size (cm)	Custom Build
Net Weight (kg)	2.2 Ton



HX-CNC auto saw tooth induction welding machine

Saw Blade OD	80~500mm	Working Power	6KW
Tooth Face Angle	-5° ~+25°	Total Power	6.5KW
Tooth Length	3.5~14mm	Working Pressure	6kg/cm2
Tooth Width	1.5~6.5mm	Ventilated Ability	>=5m3/Min
Tooth Thickness	1.5~3.0mm	Cooling System Power	1.5KW
Welding Ability	18t/Min	Cooling Water Flow Rate	22L/Min
Welding Accurate	<=0.05mm	Size	1200x960x1520mm
Power Supply	220V/50Hz	Net Weight	323kg



Technical Features:

- 1, Automatic choose gear, feeding, wire feed welding process
- 2, Accurate, welding firm, stable quality
- 3, New gear selection system
- 4, Temperature control the welding process can be fine-turning and auto-tempering function, to adapt to a variety of special welding requirements.
- 5, The whole process of computer control, with memory and query functions
- 6, CNC control, safe and reliable
- 7, Advanced UHF heating controller, small size, low power consumption and high efficiency
- 8, Graphical user interface, clear concise, easy to grasp the operation of the program
- 9, Can be designed according to customers' special requirements



Main types of Ultra-High Frequency Induction Heating Machines:



HX-10A-UHF Ultra-High Frequency Induction Heating Machine



HX-30AB-UHF Ultra-High Frequency Induction Heating Machine



HX-40AB-UHF Ultra-High Frequency Induction Heating Machine



HX-60AB-UHF Ultra-High Frequency Induction Heating Machine



HX-10AB-UHF Ultra-High Frequency Induction Heating Machine



HX-CNC auto saw tooth induction welding machine



HX-20AB-UHF Ultra-High Frequency Induction Heating Machine



HX-06A-UHF Ultra-High Frequency Induction Heating Machine



HX-06AB-UHF Ultra-High



HX-05AB-UHF Ultra-High



Main types of High Frequency Induction Heating Machines:



HX-25AB-HF Induction Heating Machine



HX-100AB-HF Induction Heating Machine



HX-80AB-HF Induction Heating Machine



HX-60AB-HF Induction Heating Machine



HX-40AB-HF Induction Heating Machine



HX-30AB-HF Induction Heating Machine



HX-25A-HF Induction Heating Machine



HX-15A-HF Induction Heating Machine



HX-15AB-HF Induction Heating Machine



HX-05A-HF Induction Heating Machine



HX-70AB-HF High Induction Heating Machine



Main types of Medium Frequency Induction Heating Machines:



HX-200AB-MF Induction Heating Machine



HX-40AB-MF Induction Heating Machine



HX-300AB-MF Induction Heating Machine



HX-250AB-MF Induction Heating Machine



HX-160AB-MF Induction Heating Machine



HX-120AB-MF Induction Heating Machine



HX-80AB-MF Induction Heating Machine



HX-60AB-MF Induction Heating Machine



HX-25AB-MF Induction



HX-100AB-MF Induction



HX-1200KW-SCR-MF



HX-500AB-MF Induction