

# HLQ Induction Equipment Co.,Ltd

(BRANCH: Quanzhou Shuimu Induction Equipment Co., Ltd)

## Company Information:

1. HLQ Induction Equipment Co.,Ltd is located in Quanzhou National High & New Technology and Industrial Development Zone.
2. The company has 25-year experience in the R&D, design, production of high frequency and medium frequency induction heating machines. Products have won great reputation among clients.
3. Leading products include IGBT medium frequency induction heating equipment, IGBT super audio induction heating equipment, CNC quenching machine tool, IGBT medium frequency induction melting furnace, KGPS medium frequency induction melting furnace, open type water cooling tower, closed water cooling tower, etc.
4. Our products have been exported to the UK, Australia, Pakistan, Egypt, Singapore, India, Vietnam, Mexico, Uganda, Ukraine, Serbia, Russia, Germany, Turkey, South Korea, Malaysia, the Philippines and other countries.
5. We have senior engineers and technical researchers. Engineers are available to service overseas if needed.

If you have any interest in our products, please feel free to contact us. We will offer you the best service in the shortest time.

## Heating principle:

Electromagnetic melting furnaces use electromagnetic induction heating to convert electrical energy into thermal energy through an electromagnetic induction heating controller. First of all, through the internal rectifier filter circuit to AC power into DC, and then through the control circuit to convert DC power into high-frequency magnetic energy. High-speed changing current through the coil will produce a high-speed changing magnetic field. When the magnetic field lines in the magnetic field pass through the crucible, numerous small eddy currents will be generated inside the crucible, so that the crucible itself will be heated at a high speed, and the heat will be transferred to the aluminum alloy and melted into a liquid state.

## Product Description:

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Super-audio frequency induction melting furnace is an induction heating machine. Alternating current in the coils melts the metals in the crucible and then heats the hot metal to the temperature needed. It is the heat treatment prior to forging, sintering and hot rolling in casting and melting industries.

## 1. Melting capacity of SMJD series induction melting furnace:

Type	Input Power	Melting Capacity			Max Temperature
		steel, stainless steel	copper, gold, silver (scrap, Slag)	aluminum, aluminum alloy, Aluminum scrap, Aluminum slag, pop can	
SMJD-463	60 KW	200 KG	500 KG	200 KG	1800°C
SMJD-480	60 KW	150 KG	500 KG	150 KG	
SMJD-580	80 KW	200 KG	600 KG	200 KG	
SMJD-600	60 KW	230 KG	560 KG	230 KG	
SMJD-900	120 KW	300 KG	900 KG	300 KG	
SMJD-905	80 KW	300 KG	900 KG	300 KG	
SMJD-1250	80 KW	400 KG	1200 KG	400 KG	
SMJD-1250	120 KW	450 KG	1350 KG	450 KG	
SMJD-1500	120 KW	500 KG	1500 KG	500 KG	
SMJD-1550	120 KW	520 KG	1560 KG	520 KG	
SMJD-1700	160KW	600 KG	1700 KG	600 KG	
SMJD-2300	160KW	800 KG	2000 KG	800 KG	
SMJD-3100	200KW	1200 KG	3000 KG	1200 KG	

## 2. Advantages of medium frequency induction melting furnace:

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- (1) High efficiency: Induction power, heat transfers to the furnace in a short time.
- (2) Energy saving: Compared with traditional melting ways (gas & oil), saving 20%~30% power.
- (3) Easy and safe to use: All-round indicator lights controller, much safer and easier for workers to operate.
- (4) Stable in use: Our products have been tested at every level, reducing the rate of failure to a great extent.
- (5) Environmentally friendly: Electricity-powered, no air pollution, no dust and little noise.
- (6) Easy to install: Portable, saving much more room.

### 3. Applications of SMJD series induction melting furnace:

Electromagnetic Induction Melting Furnace used for Melting of Aluminum, Copper, Zinc ETC



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#### 4. Main technical parameters of SMJD series melting furnace:

Type	Output Power	Input current	Input voltage	Oscillation frequency
SMJD-463	60 KW	90 A	3-phase 380 V, 50~60 Hz	1 KHz ~ 100 KHz According to customers request custom frequency
SMJD-480	60 KW	90 A		
SMJD-580	80 KW	120 A		
SMJD-600	60 KW	90 A		
SMJD-900	120 KW	180 A		

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SMJD-905	80 KW	120 A		
SMJD-1250	80 KW	120 A		
SMJD-1250	120 KW	180 A		
SMJD-1500	120 KW	180 A		
SMJD-1550	120 KW	180 A		
SMJD-1700	160KW	240 A		
SMJD-2300	160KW	240 A		
SMJD-3100	200KW	300 A		
+N				

## Specification model of Crucible:

Type	Specification	Upper mouth outer diameter(A) ±10mm	Upper mouth inner diameter (B) ±5mm	Bottom outer diameter (C) ±10mm	total height (H) ±10mm
SMJD-463	463#	565	500	310	617
SMJD-480	480#	510	420	400	710
SMJD-580	580#	420	360	300	840

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SMJD-600	600#	620	525	620	470
SMJD-900	900#	520	425	510	960
SMJD-905	905#	620	530	620	650
SMJD-1250	1250#	620	535	620	850
SMJD-1500	1500#	735	640	460	900
SMJD-1550	1550#	775	682	400	750
SMJD-1700	1700#	610	500	610	1200
SMJD-2300	2300#	880	775	355	1000
SMJD-3100	3100#	780	645	780	1400



## Packaging & Shipping:

Electromagnetic 5 - 5000kg aluminum induction melting furnace

### As for packaging:

1. The induction melting furnace is always wrapped with a film layer for waterproof, and then packed with a paper box.
2. Then put the wrapped machine into a wooden case (standard exporting carton), and wrap the machine with foam around for shockproof.

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1. If you have shippers in China, we can send the induction melting furnace to them for free.
2. If you want us to send the induction melting furnace to you directly, we can send it to any main port of China promptly.

## Our Services:

As a manufacturer with 25 years' R&D experience in China, we would like to offer any support you need as follows:

1. Immediate reply to your inquiry.
2. Detailed information of our products, and our company if you need.
3. Best quotation.
4. Immediate reply to your questions about our products.
5. Technical support, or alternative accessories if necessary.

## Storage:

Clean, dry environment

Temperature at -20 ~ 60 °C

Humidity must be in the range of 0% to 95%, and no dew

Avoid contain corrosive gases, liquids

Warranty: The heating power wins 12months since contract signed date.

You can following your order at any time

**Test maching runing:** Our technical staff are test machine running.

## FAQ:

### 1: Are you the Manufacturer or a trading company?

We are direct manufacturer specialized in produce in machinery for 25 years. Our factory located in high industry zone, Quanzhou city, Fujian province, where is the biggest industry machinery manufacturing base in china.

### 2: Why should we choose SMJD? How do you ensure the quality?

We have professional research staff and strict in Production, inspection and debugging and package

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process. We always insist on supply good pre-sales, order following, after sell service for our customers. We have professional QC person inspect machinery production. After production finished, all machines will be testing & debugging carefully before shipment.

### 3: Which kind of power supply do you supply? Electricity or gas?

Electricity.

### 4: How can I trust your company and machine?

Our factory have been in producing machinery for around 25 years ,our machine have exported to East Asia, South Asia, the middle East Asia, Africa etc. areas and have a good feedback with no complaints. Welcome to visit us, and have a face to face negotiation.

### 5: How do you control the quality?

We have QC team comply with TQM to ensure the quality. Each step is in compliance to the standards. At the same time, we will take photos and shoot video for you if you need.

### 6: Which county do you exported to ?

We have already exported our machines to many famous company in many countries, such as Vietnam, Indonesia, Myanmar, Qatar, Iran, Ukraine etc . Welcome customers to visit our factory.

### 7: How about your after sales service?

After customers get machines, We will send our engineers to customer's workshop. We will supply installation & debugging & training service for customers till machine normal production.