



**Zhengzhou CY Scientific Instrument Co.,Ltd**

China Laboratory Equipment Manufacturing and Solution Specialist

This product is a vacuum induction furnace with induction heating, and the melting temperature of the equipment can reach 2000°C. The induction furnace adopts a stainless steel water-cooled chamber and is equipped with a quartz observation window to observe the sample melting condition. It is suitable for sample melting and heat treatment, phase diagram research. The equipment adopts high-quality high-frequency induction power supply and supports customized maximum 60KW high-frequency induction power supply. The equipment is equipped with a high-vacuum molecular pump set, which can effectively improve the vacuum degree of the substrate and thus improve the quality of the melting. The equipment is also equipped with a lifting platform and a flip handle to facilitate the operator to carry out the casting and sampling operations after melting.



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The equipment is comprehensive in function, fast in melting, easy to use, energy-saving and environmentally friendly, and is very suitable for laboratory research on metal samples.

It can strictly control the alloy composition, and has the ability of electromagnetic stirring and high vacuum degassing. Smelting and casting of nickel-based, iron-based, cobalt-based and other advanced precision alloys or high-purity metals can be performed under high vacuum conditions or

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under a protective atmosphere. If a graphite crucible is used, low-resistivity metals and their alloys can be melted by indirect heating, such as gold, silver, copper, aluminum, bronze, etc.

Technical Parameters of vacuum induction melting furnace:

Power Requirements	30KW,380V,3 phase, 50Hz
Max operating temperature	2000C
Crucible capacity	3Kg
Vacuum chamber	500*500mm, SS304 material
Heating coil size	Diameter 220mm with height 180mm
Molecular pump	5.0*10E-6 mbar
Protect atmosphere	N2, Ar
Window view	2 glass window view
Temperature measurement	Infrared temperature measurement
Temperature control accuracy	±3C
Temperature control	PID control
Control ways	PLC touch screen
Cooling method	Integrated cold trap
Crucible	Can be able to tilt to 95 degree for tilt cast
Out dimension	1350*1100*1500mm
Chamber size	500mm diameter *500mm height
Vacuum pump	Molecular pump included

Standard Packing list :

Item	name	unit	quantity
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1	High vacuum chamber	set	1
2	Vacuum system( mechanical pump+molecular pump+high vacuum valve+composite vacuum machine with communication	set	1
3	Rotary casting system	set	1
4	Induction heating coil 3kg	set	2
5	Crucible insulation jacket	set	2
6	Graphite crucible	set	2
7	Cooling system	set	1
8	Electric control,touch screen+PLC	set	1
9	Infrared temperature measurement	set	1
10	Manual book, quality certificate	set	1