

**IKS****沈阳爱科斯科技有限公司**
IKS PVD TECHNOLOGY(SHENYANG)CO.,LTD

Vacuum induction melting furnace



1. Application:

Used for smelting and purifying stainless steel, high temperature alloy and magnetic materials, producing alloy bars for precision casting.

2. Features:

2.1 The furnace body and door are double-layer stainless steel water-cooled furnace walls to extend the service life of the equipment.

2.2 The heating power supply adopts IGBT medium frequency power supply, and the inverter is a new IGBT module, which can be used for efficient induction heating.

2.3 Single-chamber or multi-chamber structure: casting room, mold loading room, feeding room.

2.4 Realize the system of tamping, sampling, filling and alloy composition adjustment, which can be directly and quickly smelted under vacuum state.

2.5 Computer and PLC automatic control system.

2.6 Add alloy, sample, measure temperature and pour material under vacuum state.

3. Technical indicators:

3.1 Limit vacuum: 6.0×10^{-2} Pa

3.2 Pressure rise rate: 1.0 Pa/h

3.3 Medium frequency power: 50-1000KW

3.4 Maximum temperature: 1800℃

3.5 Load: 50-800kg

4. Selection reference

Model:	Charge batch(kg)	Exothermic material	Heating power(kw)	Maximum temperature(℃)	Temperature uniformity(±℃)	Limit Vacuum(Pa)	Pressure Rise Rate(Pa/h)
VOTM-50KG	50kg	IGBT	80kw	1800℃	±10℃	6.0×10^{-2} Pa	1.0Pa
VOTM -150KG	150kg	IGBT	200kw	1800℃	±10℃	6.0×10^{-2} Pa	1.0Pa
VOTM -200KG	200kg	IGBT	250kw	1800℃	±10℃	6.0×10^{-2} Pa	1.0Pa
VOTM -300KG	300kg	IGBT	350kw	1800℃	±10℃	6.0×10^{-2} Pa	1.0Pa
VOTM -500KG	500kg	IGBT	600kw	1800℃	±10℃	6.0×10^{-2} Pa	1.0Pa
VOTM -800KG	800kg	IGBT	900kw	1800℃	±10℃	6.0×10^{-2} Pa	1.0Pa

IKS PVD Technology (Shenyang) Co., Ltd

<http://www.ikspvd.com> iks.pvd@foxmail.com

No.83-42,Puhe Road,Shenbei New District,Shenyang,110122,Liaoning,China

