

1-2kg Gold Melting Furnace

Description

This gold melting machine is mainly designed to melt a small quantity of gold. Desktop design is compact and portable. Comparing with resistance heating and propane melting, it adopts induction technology to improve melting efficiency dramatically.

This machine has features including extremely speedy melting within 2 minutes per batch, durable advanced power design for 24 hours continuous working.

And it has the advantages of simple operation, good smelting effect, and low investment. It is the best choice for schools, laboratories, jewelry stores, research institutes, and goldsmith.

Parameter



SPB-DH1/DH2



Model number	SPB-DH1	SPB-DH2
Power source	Single phase 220V, 50/60Hz	Single phase 220V, 50/60Hz
Power	3.5 kw	3.8 kw
Applicable metal	Gold, Silver, Copper, Brass, and their alloys	Gold, Silver, Copper, Brass, and their alloys
Melting time	2 minutes	2 minutes
Max capacity	Gold: 1.0 kg ; Silver: 0.6 kg	Gold: 2.0 kg ; Silver: 1.2 kg
Max temperature	1600 C	1600 C
Temperature control k-type	Optional	Optional
Dimension	520*400*330mm	520*400*330mm
Weight	21 kg	22 kg
Heating technology	Induction heating	Induction heating
Cooling way	Water cooling	Water cooling

Parameter

Model number	SPB-H1	SPB-H2
Power source	Single phase 220V, 50/60Hz	Single phase 220V, 50/60Hz
Power	3.5kw	3.8kw
Applicable metal	Gold, Silver, Copper, Brass, Bronze, and their alloys	Gold, Silver, Copper, Brass, Bronze, and their alloys
Melting time	2 minutes	2 minutes
Max capacity	24K Gold: 1.2 kg ; 18K Gold: 1.0 kg ; 925 Silver: 0.6 kg	24K Gold: 2.6 kg ; 18K Gold: 2.0 kg ; 925 Silver: 1.2 kg
Max temperature	1600 C	1600 C
Temperature control k-type	Optional	Optional
Dimension	320*280*550 mm	340*380*680 mm
Weight	20 kg	25 kg
Heating technology	Induction heating	Induction heating
Water pump	Optional	Optional
Cooling	Water cooling	Water cooling



SPB-H1/H2

Features

- Extremely speedy melting within 2 minutes per batch;
- Compact and portable design, lightweight, economic space occupation, and easy installation;
- Energy saving, environmental protection, and low pollution;
- 100% duty cycle, 24-hour continuous working ability at maximum power.


Protective board
 Fire and high temperature resistance

Water inlet and outlet
 Connect to tap water to cool directly

Durable crucible
 Save cost and increase service life

Control panel
 Convenient operation, Multi-protection warning light

4 direction wheels and 2 fixed wheel
 Easy to move and fixed

3-8kg Gold Melting Furnace

Features

- Based on the latest and most advanced IGBT induction technology, it can melt gold, K-gold, silver, copper, aluminium and various alloys at a max temperature of 1600 °C;
- Top-speed melting could be achieved within 4 minutes;
- 100% duty cycle, 24 hours continuous working ability at maximum power.
- Energy saving, environmental protection, and low pollution level;
- Portable size, lightweight, and easy installation;
- Enhanced monitoring and diagnostics system, guaranteed machine's high stability, reliability, and security



Parameter

SPB-H8

Model number	SPB-H5	SPB-H8
Power source	3 phase 380V/Single phase 220V, 50/60hz	3 phase 380V, 50/60Hz
Power	15kw/8.5kw	25kw
Applicable metal	Gold, Silver, Copper, Brass and their alloys	Gold, Silver, Copper, Brass and their alloys
Melting time	4 minutes	4 minutes
Max capacity	Gold: 3.0-6.0 kg ; Silver: 1.5-3.0 kg	Gold: 7.0-8.0 kg ; Silver: 3.5-4.0 kg
Max temperature	1800 °C	1800 °C
Temperature control k-type	Optional	Optional
Dimension	530*530*900 mm	680*500*1180mm
Weight	72 kg	92 kg
Heating technology	IGBT induction heating	IGBT induction heating
Water pump	Equipped	Equipped
Cooling way	Water cooling	Water cooling



SPB-H5



Tilting Gold Melting Furnace

Description

This furnace adopts medium frequency induction heating to melt max 12kg gold or 6kg silver for one batch.

Medium frequency power does not only provide speedy melting but also produce strong electromagnetic stirring in the melting process to make alloy more uniform.

It is very easy to maintain, convenient for crucibles replacement, and it is safe and flexible to pour because of the design of manual tilting control.

Parameter

Model number	SPB-TB5
Power source	3 phase 380V, 50/60Hz
Power	15 kw
Applicable metal	Gold, Silver, Copper, Brass and their alloys
Melting capacity	6kg Silver / 12kg gold (customized)
Max time	5 minutes
Max temperature	1800 C
Dimension	740*500*1360mm
Weight	95 kg
Heating technology	IGBT induction heating
Water pump	Equipped
Cooling way	Water cooling



Features

- Extremely speedy for melting one batch of 12kg gold;
- Strong electromagnetic stirring to make alloy highly homogeneous;
- 100% full load, 24 hours of continuous working ability improves production rate;
- Rapid rising temperature and power consumption saving lead to high cost efficiency;
- Omni-bearing protection warning functions: Over-heating, over current, over voltage, short circuit, water shortage, improper frequency.

Split Tilting Gold Melting Machine

Description

Adopt medium frequency induction heating method to melt a big quantity of gold and silver. Digital technology makes Superb furnaces low noise, versatile, and reliable.

Maintenance of the furnace is very easy. It allows rapid changing of the crucible and the safety refractory shell.

An accurate study of the coil guarantees a very high heating efficiency while medium frequency magnetic field stirs the molten metal and leads to high homogeneity of the alloys.



Parameter

Model number	SPB-TB25	SPB-TB35
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	25 kw	35 kw
Applicable metal	Gold, Silver, Copper, Brass, Bronze, and their alloys	Gold, Silver, Copper, Brass, Bronze, and their alloys
Melting time	6-8 mins	6-8 mins
Max capacity	24K Gold: 20.0 kg; 925 Silver: 10.0 kg	24K Gold: 30.0 kg; 925 Silver: 15.0 kg
Max temperature	1800 C	1800 C
Power size	690*500*1210mm	690*500*1210mm
Furnace size	650*520*1800mm	650*520*1800mm
Weight	200kg	215kg
Heating technology	IGBT induction heating	IGBT induction heating
Water pump	Build-in	Build-in
Cooling way	Water cooling	Water cooling



Features

- It adopts solid-state technology which is the latest and most advanced IGBT modules available worldwide;
- The current between the coil and the power source is insulated to ensure safety for the user;
- 24 hours continuous working produces high production rate;
- Efficient circuit with low energy consumption is easy to maintain, and simple to install and operate.



Tilting type

To pull the controller when the melting is completed, simplifies the steps



Pump built-in

Connect the water can be cooled



Durable crucible

Save cost and increase service life



Control panel

Convenient operation, Multi-protection warning light



4 direction wheels and 2 fixed wheels

Easy to move and

IGBT Induction Melting Furnace

Features

- Comparing with SCR/KGPS technology, IGBT technology can save 15%-30% energy and is much more efficient than gas-fired and coal-fired method;
- 100% successful start-up rate, power factor > 95%;
- The comprehensive full load design is available for 24-hour continuous operation;
- Perfect and complete protection functions, increasing machine's reliability & stability;
- A maximum ten types of fault protection and display of over-current, over-voltage, water shortage and phase missing can provide higher reliability and durability.

Parameter

Power supply parameters

Model	MF-15	MF-25	MF-35	MF-45	MF-70	MF-90	MF-110	MF-160
Max. input power	15KW	25KW	35KW	45KW	70KW	90KW	110KW	160KW
Max. input current	23A	36A	51A	68A	105A	135A	168A	240A
Input voltage	3 phase 340V ~420V 50/60Hz							
Oscillation frequency	1K~20KHz							
Requirement of cooling water	Hydraulic pressure	≥0.2Mpa		≥0.3Mpa				
	Flow rate	≥6L/Min			≥20L/Min			
Temperature of water	≤45 C							

Melting Parameters

Model	Fe, ss	Cu, Au, Ag	Al, Al-alloy	Model	Fe, ss	Cu, Au, Ag	Al, Al-alloy
MF-15	3kg	10kg	3kg	MF-70	25kg	80kg	25kg
MF-25	5kg	20kg	5kg	MF-90	40kg	120kg	40kg
MF-35	10kg	30kg	10kg	MF-110	50kg	150kg	50kg
MF-45	18kg	50kg	18kg	MF-160	100kg	250kg	100kg

Remark: Above melting capacity sheet for general reference;
Melting duration: When the crucible is hot, 20~30min./workload;
When the crucible is cold(first melt),40~50min./ workload.



Motor Tilting Melting Furnace

This type of metal melting furnace is designed for 10-100kg ferrous and non-ferrous metal smelting.

Control the switch of the tilting motor to complete the pouring process by one-man hand, the furnace body can be set in any position when tilting.

According to ferrous melting or non-ferrous melting, the crucibles will be taken use of different material.

Graphite crucible is special for non-ferrous metal like copper, gold, silver, aluminum.

Silicon crucible is suitable for ferrous metal.

The small land occupied, fast melting and energy-saving are its obvious features.



Patent No.: 2018SR1081273

SPB-MMF

Chain Tilting Melting Furnace

It is designed for 10kg – 50kg non-ferrous metal melting, especially for precious metal melting like gold and silver.

The ingenious construction brings the convenience for the tilting controller. The machine set the tilting joystick with tilting speed adjustment. The graphite crucible replacement could be well finished within 1min.

The power utilize advanced IGBT technology to realize energy saving and speedy melting. It ranges from 15kw to 90kw. The Simens PLC control is optional to meet your strict requirement.



Patent No.: 2018SR1079895

SPB-CMF

Hydraulic Tilting Melting Furnace

This type of hydraulic furnace is designed for 50-250kg metal melting. The medium frequency induction power supply ranges from 15kw to 160kw with advanced IGBT technology.

The steel frame construction ensures the furnace with lifelong working and reliability.

The tilting function is controlled by a hydraulic box with remote panel trolley. It highly improves the furnace stability and operator's safety.

Comparing others, this type of furnace is combined with the magnetic yoke to improve melting efficiency much.

If you request high-quality performance in the melting process, this furnace will be your ideal choice.



SPB-HMF