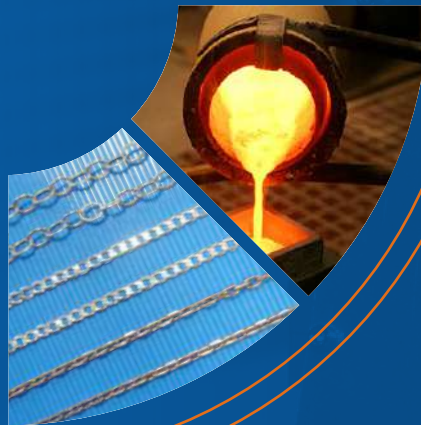




SuperbMelt®

Gold And Jewellery Machinery Expert



SUPERB ELECTROMACHINERY CO., LIMITED



Catalogue

01 Introduction

Catalogue.....	01
Certificate.....	03
Who we are.....	04
Why choose us.....	05
Development history.....	06

02 Solution

Jewelry Casting Line.....	07
Bullion Casting Line.....	09
Hollow Bangle Making Line.....	11
Hollow Beads Making Line.....	13
Chain Making Line.....	15
Minting Line.....	17
Platinum Casting Line.....	19

03 Melting

1-2kg Gold Melting Furnace.....	22
3-10kg Gold Melting Furnace.....	23
10kg Gold Melting Furnace.....	24
20-30kg Gold Melting Machine.....	26
Platinum Melting Furnace.....	28
IGBT Induction Melting Furnace.....	30
Vacuum Induction Melting Machine.....	32

04 Casting

Vacuum Pressuring Casting Machine.....	33
Vacuum Investment Powder Mixer.....	34
Wax Burnout Oven.....	35
After Burner Wax Burnout Oven.....	36
Mini Vacuum Jewelry Casting Kit.....	37
Mini Vacuum Pressurized Casting Machine.....	38
Centrifugal Casting Machine.....	40
Vacuum Bullion Casting Machine.....	42
Tunnel Bar Casting Machine.....	43
Granulating Machine.....	44
Vacuum Granulating Machine.....	46
Continuous Casting Machine.....	48
Vacuum Continuous Casting Machine.....	50
Water Metal Atomizer.....	51
Metal Shredder.....	52

05 Auto Stone Setting

3D Scan Auto Stone Setting Machine.....	53
Mini Auto Wax Setting Machine.....	54

06 XR Analyzer

Xr1200 Desktop Gold Analyzer.....	55
XR2800 Desktop Gold Analyzer.....	56
XR3800 Desktop Gold Analyzer.....	57
XR5000 Handheld Gold Analyzer.....	58
XR5800 Handheld Gold Analyzer.....	59

CATALOGUE



Catalogue

07 Laser Welding& Making

Mini Laser Welding Machine.....	60
150w Vertical Laser Welding Machine.....	61
200w Laser Welding Machine.....	62
Laser Cutting Machine.....	63
Portable Laser Engraving Machine.....	64
Vertical Laser Engraving Machine.....	65

08 3D Printing

Jewelry Resin 3D Printers.....	66
Jewelry Wax 3D Printers.....	67
4K Jewelry 3D Printers.....	68

09 Rolling Mill

5,6 Track Continuous Sheet Rolling Machine.....	69
Continuous Wire Rolling Machine.....	70
Rolling Machine.....	72
Tablet press series.....	74

10 Chain Weaving

Chain Weavi.....	75
Cable Chain Making Machine.....	76
Rope Chain Making Machine.....	78
Parameter.....	79

11 Minting Press

Hydraulic Stamping & Blanking Machine.....	80
Traditional Coin Press.....	81
Servo Coin Press.....	82
Speeding Automatic Minting Machine.....	83
Automatic Coin Press Machine.....	84

12 Auxiliary

Single Line Wire Drawing Machine.....	85
Wire Drawing Machine.....	86
Tube Drawing Machine.....	87
Coiling Machine.....	88
Hollow Tube Forming Machine.....	89
Hollow Ball Making Machine.....	90
Hollow Ball Splitting Machine.....	91
Hollow Ball Grinding Machine.....	92
Ball Diamond Cutting Machine.....	92
Ring & Bangle Forming Machine.....	93
Sheet Splitting Machine.....	94
Belt Annealing Furnace.....	95
Tempering Furnace.....	96
Jewelry 3D Scanner.....	97
Dot Peen Marking Machine.....	98
Coin Riming Machine.....	100
Automatic Wax Injector Machine.....	101
Chiller.....	102
Crucible.....	104
Gold Coin Packing Machine.....	105
Coin Die/Jewelry Die.....	106

CATALOGUE

Certificate

From the day of establishment till now, our company has passed ISO9001:2015 quality management system. We have got the CE certificate, SGS certificate, AAA credit rating certificate, and various of patents.

These certifications reveal our quality management in scientific processes, refinement, standardization, product adumbration that conform with the international standards. We will continue to introduce products that meet the market demand and provide customers with expected satisfaction.





Why Choose Us

Advantages

- **AAA CREDIT AUDITED ENTERPRISE**
The government audited Superb as AAA credit company (top level).
- **HIGH QUALITY**
We only choose famous brand main electric components for our production.
- **ISO CE SGS APPROVED**
Professional certification bodies certify that our machines are of high quality.
- **SOLUTION FOR CASTING LINE**
We will provide one-stop service for your precious metal casting line.
- **STRONG AFTER SALE SERVICE TEAM**
We will respond within 24 hours by sending our professional engineers to solve whatever problems you may have.
- **PROFESSIONAL DEVELOPMENT TEAM**
We work with universities and institutes to keep the technology up-to-date.
- **FAST DELIVERY**
We have sufficient induction melting furnaces in stock, which greatly shortens our delivery cycle.

Honor customers



Who We Are

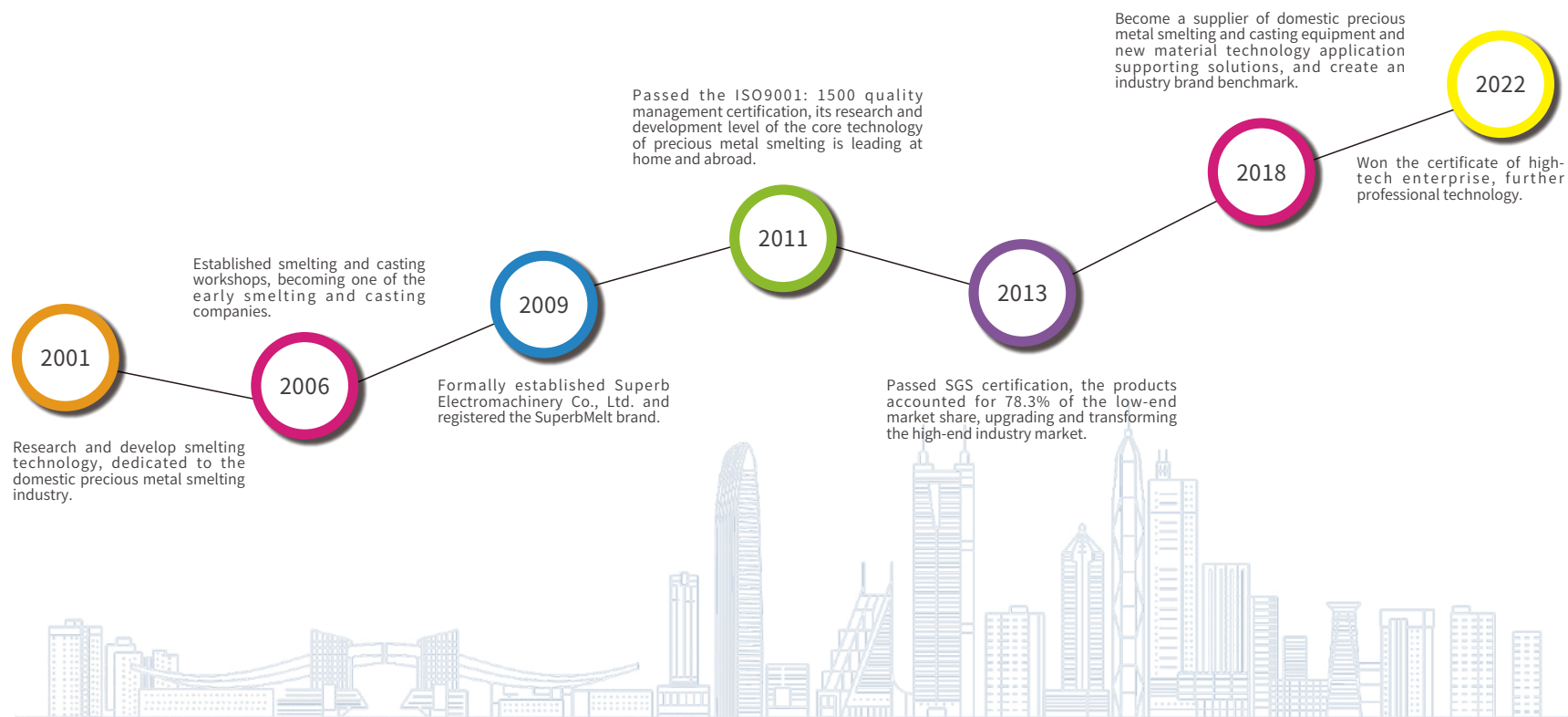


AAA Credit Enterprise

-
- Superb is a top-notch professional manufacturer and exporter of precious metal melting, casting and forming machines which are used in fields like precious metal, Rapid Prototyping, Jewelry and Artistic Sculpture.
- We take pride in the consistent and exceptional quality of our machines. Our mission is to build the most innovative melting and casting equipment for jewelry and precious metal manufacturing, providing you with the highest reliability in your daily operations that guarantees the best quality.
- As a leading precious metal melting and casting solutions provider, the provision of timely technical support for our manufacturers is an essential part of our services. With a strong technical support team that comprises of qualified and well trained (in China) local technicians, we are committed to solving any problems that you may have. Our professional sales engineer team will provide you with your required solutions. In addition, we delegate a permanent technical support team that will offer you useful, stable support.



Development history



-Jewelry Casting Line-



① 3D Printer
-P68-



② Automatic Wax Injector Machine
-P101-



③ Wax Setting Machine
-P56-



④ Vacuum Investment
Mixer-P34-



⑤ Wax Burnout oven
-P36-



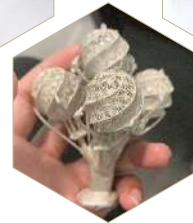
⑥ Vacuum Casting Machine
-P33-

Introduction

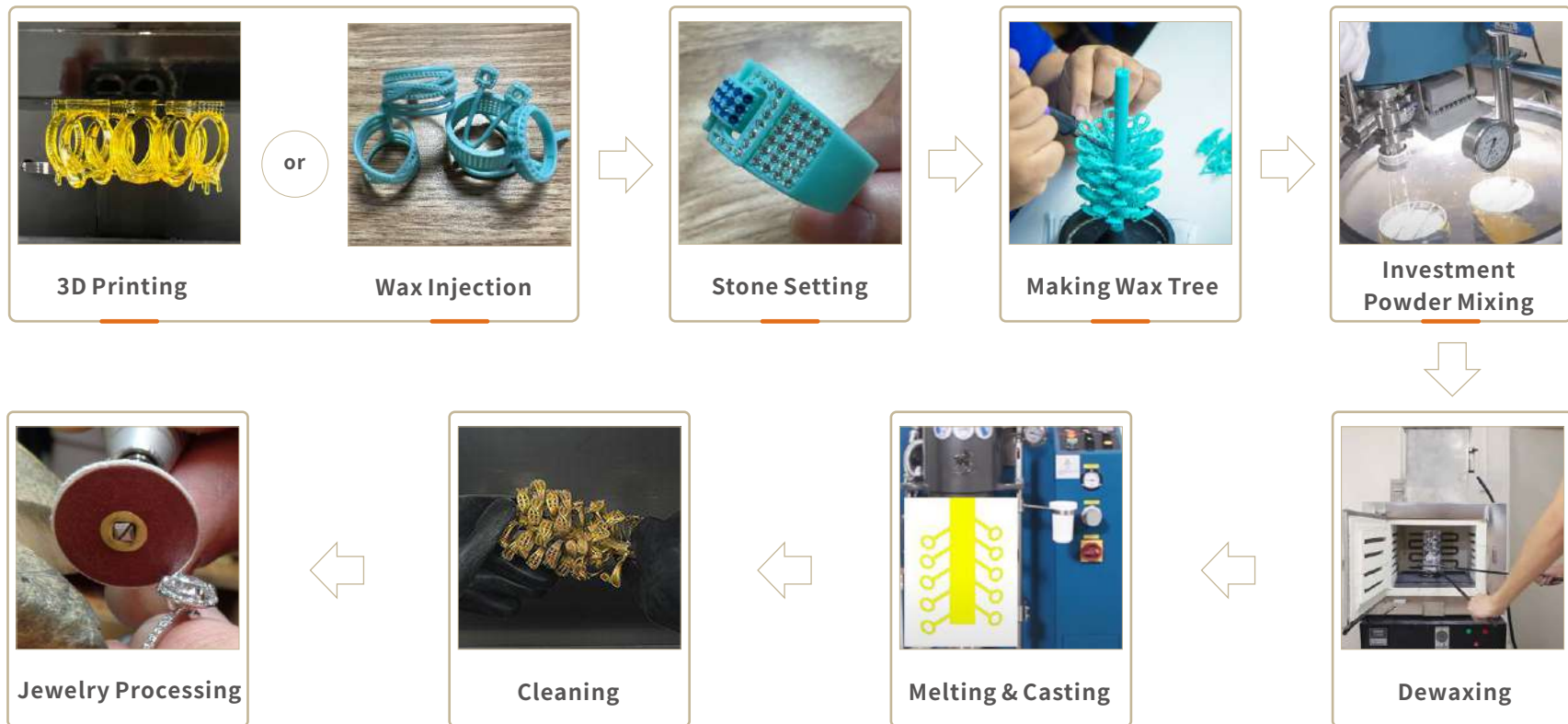
SuperbMelt jewelry casting production line adopts the method of lost wax casting to produce jewelry such as gold, silver, copper through vacuum technology.

The production line is form by wax mold making, jewelry stone setting, wax tree forming, investment, wax burnout, casting, washing.

The vacuum technology used in the casting process help to remove any air bubbles, so the results is in a denser and higher-quality effect.



Manufacturing Process



-Bullion Casting Line-



① Vacuum Granulating Machine
-P46-



② Gold Bar Casting Machine
-P31-



③ 20Ton Hydraulic Press
-P80-

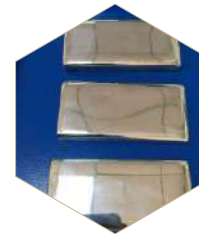


④ Dot Peen Marking Machine
-P100-

Introduction

SuperbMelt ingot production line adopts vacuum technology to produce high-quality gold and silver ingots.

Compared with the traditional ingot casting method, our production line is more mature and high-end, which can ensure the high precision of the finished product to meet the requirements of refineries and precious metal bullion sales.



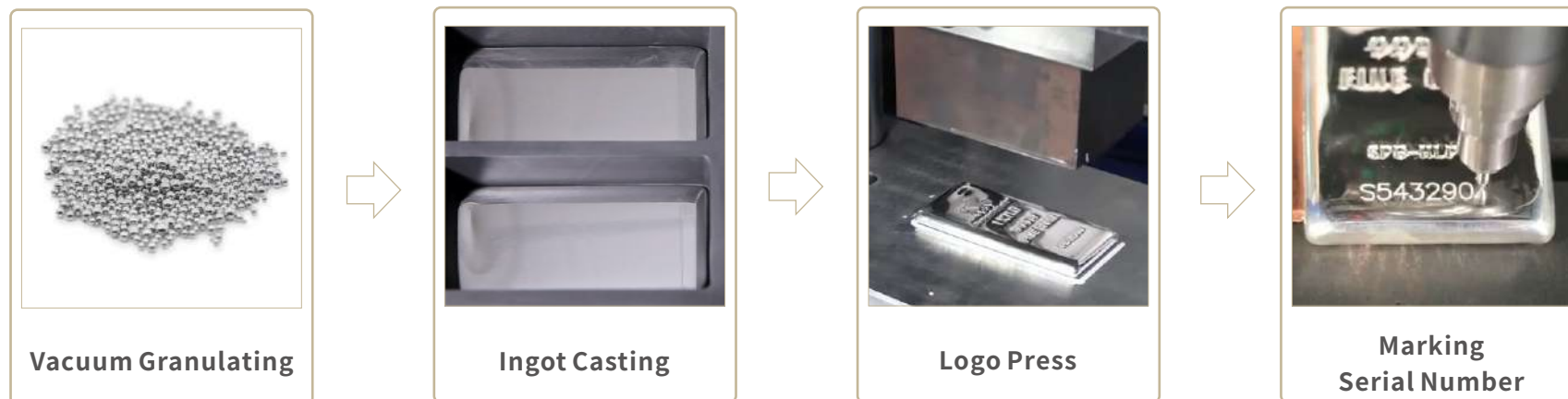
Manufacturing Process



Description

The casting of vacuum gold bar is usually done in a refinery because they usually need to produce gold bullion with very good surface quality and very bright. The gold is placed in a granulator, through which it is made into small granules for weighing. Place the gold granules in the bar mold, and finally place the mold in the vacuum bar casting machine.

Under the protection of vacuum and inert gas, it can avoid gold oxidation, shrinkage, and water ripples on the surface. After casting, place the gold nugget under the logo stamping machine to press out the required patterns and text. Then use dot peen marking machine to number the gold bars.



-Hollow Bangle Making Line-



Introduction

SuperbMelt bangles production line can provide one-stop solution machine equipment for various metal like gold silver and copper hollow bracelets, engraved bracelets, round and flat bracelets, etc.



① Continuous Casting Machine
-P40-



② Sheet Rolling Mill
-P74-



③ Sheet Splitting Machine
-P94-



④ Hollow Tube Welding Machine
-P89-



⑤ Tube Drawing Machine
-P87-



⑥ Coiling Machine
-P88-



⑦ Circle Cutting Machine

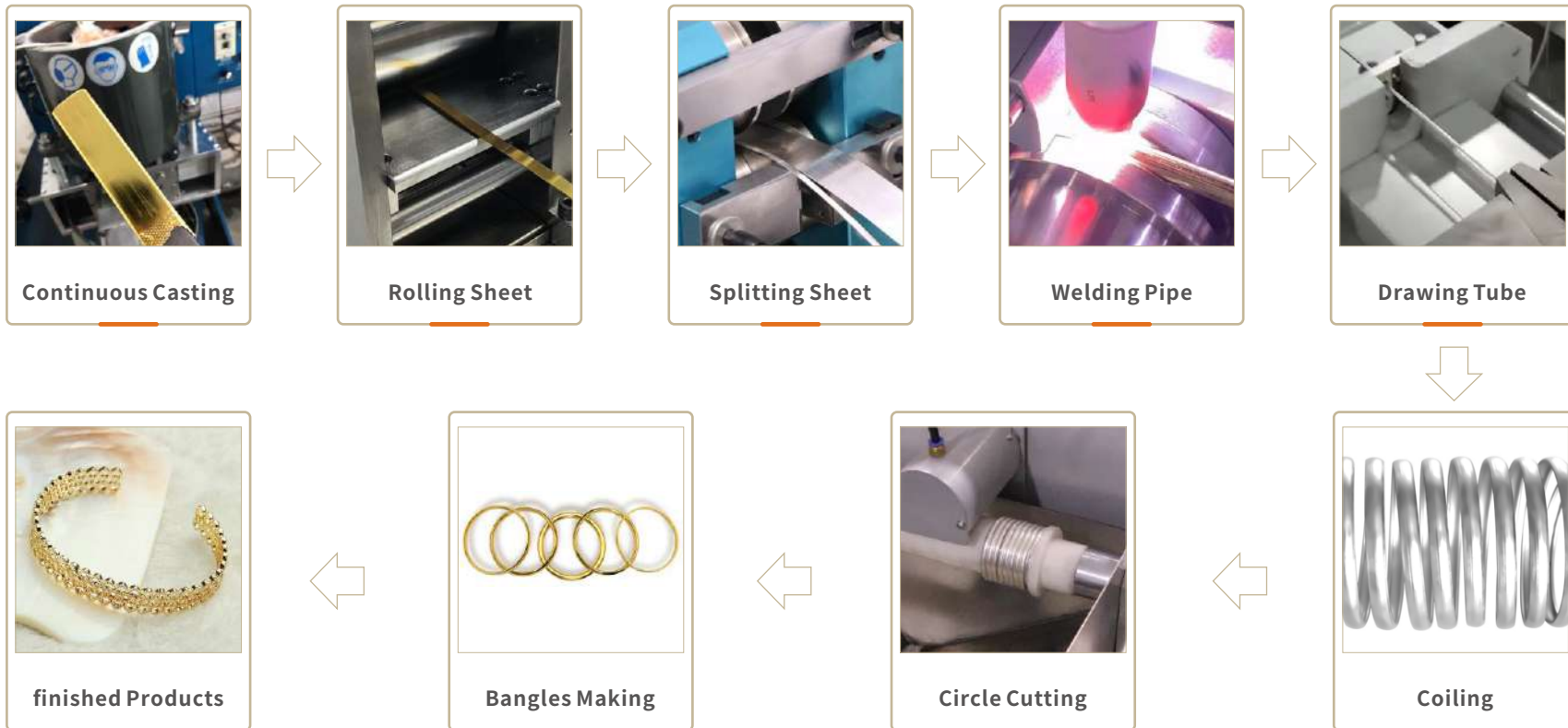


⑧ Rin&Bangle Forming Machine
-P93-



⑨ CNC Bangle Faceting Machine

Manufacturing Process



-Hollow Beads Making Line-



Introduction

ExcellentMelt hollow bead manufacturing solution is used in the production of jewelry beads made of gold, silver, copper, and other metals.

It is capable of producing beads ranging in size from 2 mm to 14 mm, as well as abacus balls, olive balls, and other unique shapes. Each of our machines guarantees that you can produce hollow balls quickly, effectively, and precisely.



① Rolling Mill
-P74-



② Splitting Machine
-P94-



③ Hollow Tube
Making Machine-P89-



④ Tube Drawing Machine
-P87-



⑤ Beads Hammer Machine
-P90-



⑥ Hollow Ball
Splitting Machine-P91-

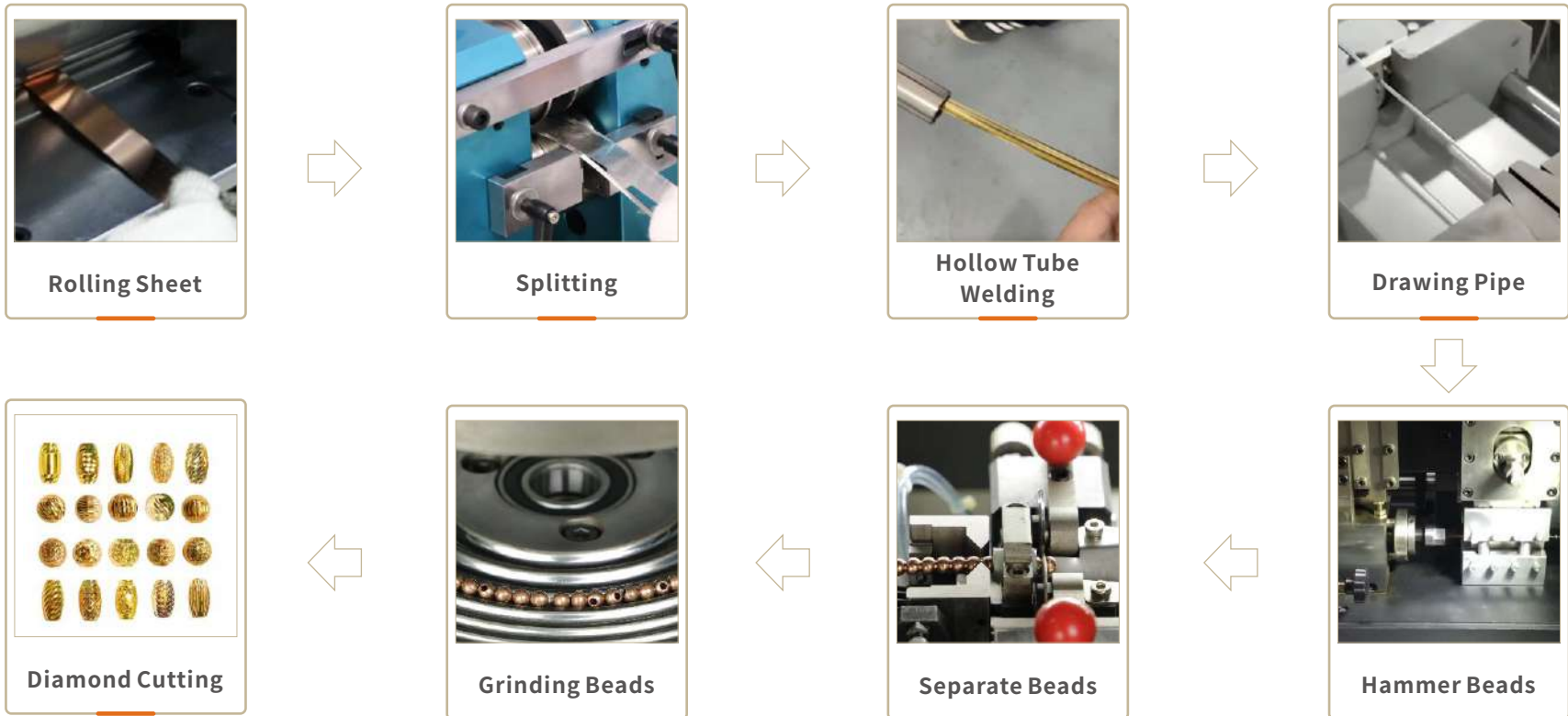


⑦ Ball Grinding Machine
-P82-



⑧ Beads Diamond Cutting Machine
-P93-

Manufacturing Process



-Chain Making Line -



Introduction

SuperbMelt offers more than ten years of experience as a reputable provider of precious metal jewelry chain fabrication solutions.

Trace chain, belcher chain, curb chain, hayseed chain, snake chain, bead chain, rope chain, Figaro chain, etc. are some of the jewelry chain varieties we may create.



① Continuous Casting Machine
-P40-



② Wire Rolling Mill
-P62-



③ Wire Drawing Machine
-P86-



④ Annealing Furnace
-P96-



⑤ Chain Weaving Machine
-P78-



⑥ Chain hammering machine
-P79-

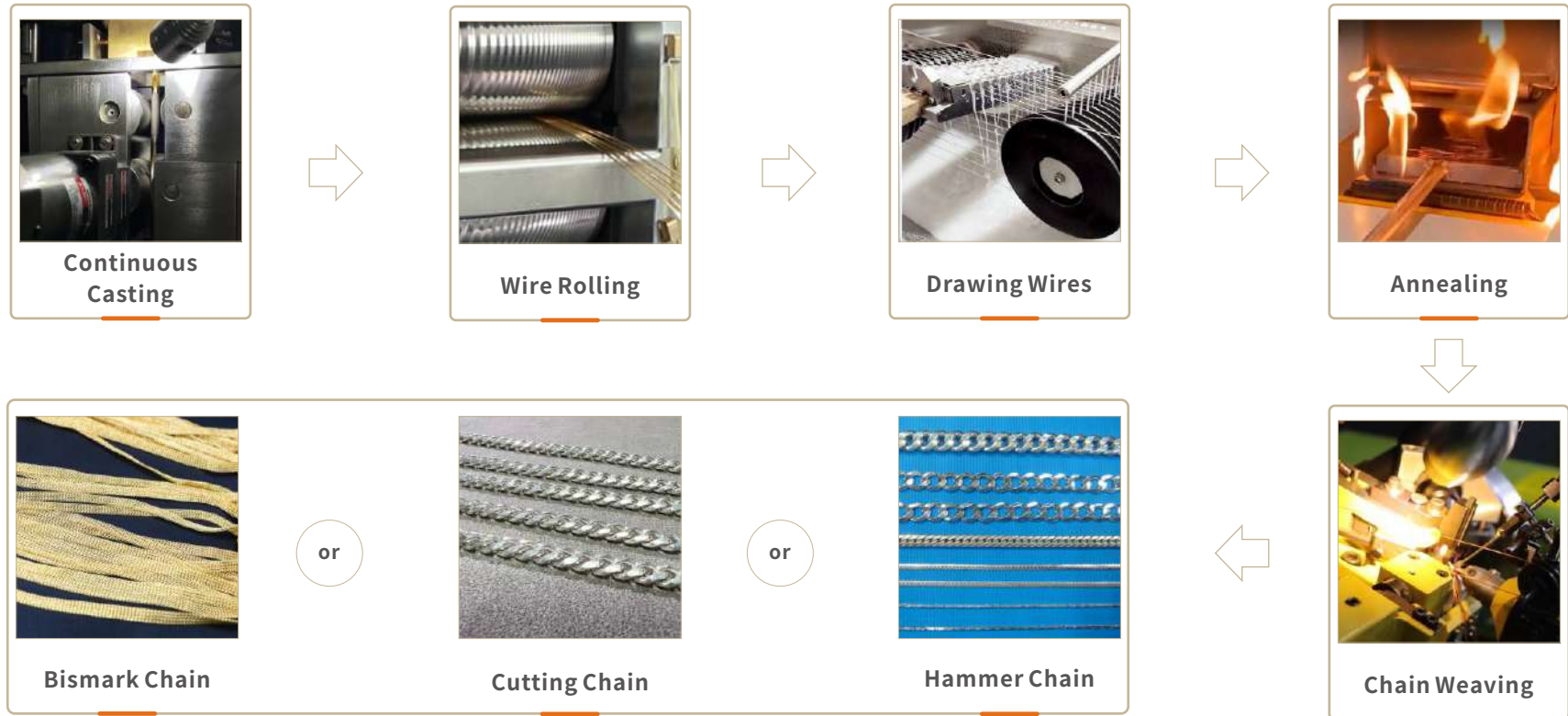


⑦ Chain Diamond
Cutting Machine -P79-



⑧ Chain bismark machine
-P79-

Manufacturing Process



-Minting Line -



① Continuous Casting Machine
-P40-



② Rolling Mill
-P72-



③ 20Ton Hydraulic Press
-P78-



④ Coin Rimming Machine
-P100-



⑤ Annealing Furnace
-P102-



⑥ Polishing Machine

Introduction

SuperbMelt has constructed a number of coin manufacturing lines all around the world as a reputable provider of precious metal coin minting solutions.

The round, square, and octagonal coins come in weights ranging from 0.6g to 1kg of pure gold. There are also other metals like copper and silver accessible.

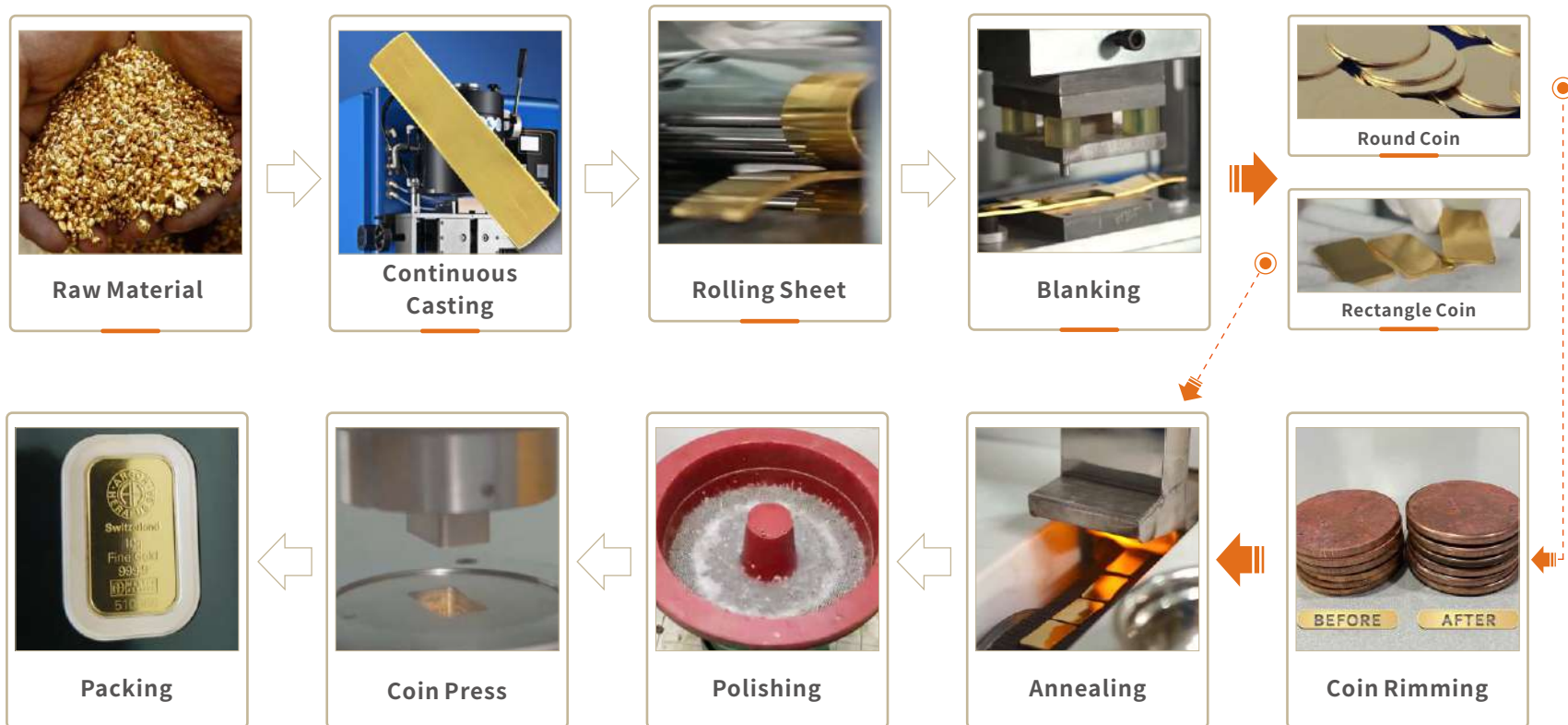


⑦ Automatic Coin Press Machine
-P84-



⑧ Gold Coin
Packing Machine-P105-

Manufacturing Process



-Platinum Casting Line -



① 3D Printing Machine
-P66-



② Wax Injector



③ Vacuum
Investment Mixer-P39-



④ Wax Burnout oven
-P36-



⑤ Mini Vacuum
Jewelry Casting Machine-P38-



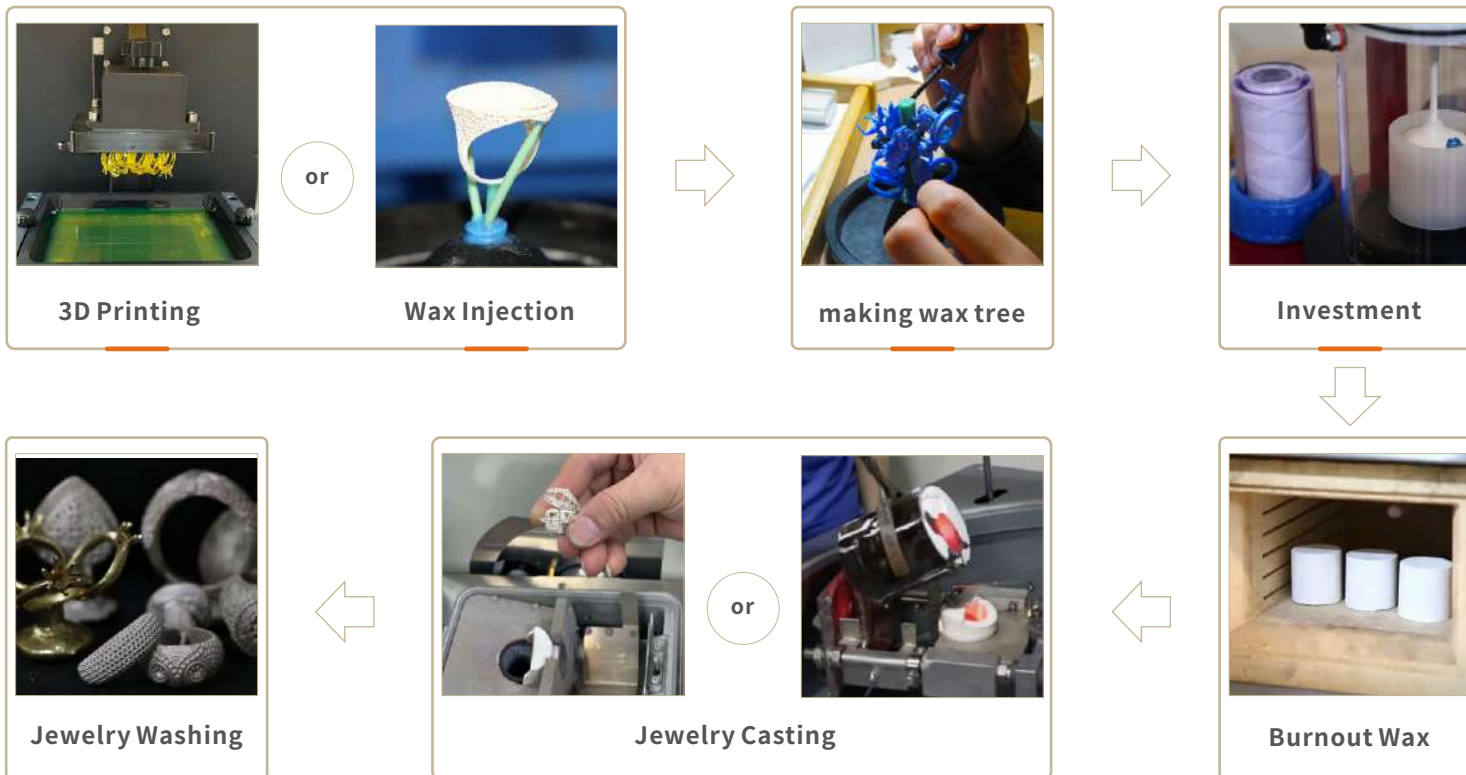
⑥ Centrifugal Casting Machine
-P40-

Introduction

Customers that need premium platinum jewelry, such as rings, bracelets, and pendants, can choose the SuperbMelt platinum casting solution.

Quartz vacuum casting process with an integrated furnace. It has a 2600°C maximum temperature range of heating capacity. enabling the casting of hard metals like gold, platinum, palladium, and silver with this product.

Manufacturing Process



Casting Furnace

Description

SuperbMelt mini gold melting furnace (SPB-DH) is suitable for any of your small-scale gold production. It is capable of melting any gold piece whose weight fall in the range 1-2Kg.

This small gold smelting machine can in no time reach a maximum temperature of 1600°C. This features also makes this machine for melting other metals. Metals such as silver, copper and aluminum, just to mention a few.

SuperbMelt mini gold melting furnace also finds application in jewellery recycling. It also very suitable for gold diggers in deals in collecting gold and its alloys.

If you wanna check gold melting furnaces with bigger capacity, Please click [here](#).



SPB-DH1/DH2



Parameter

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

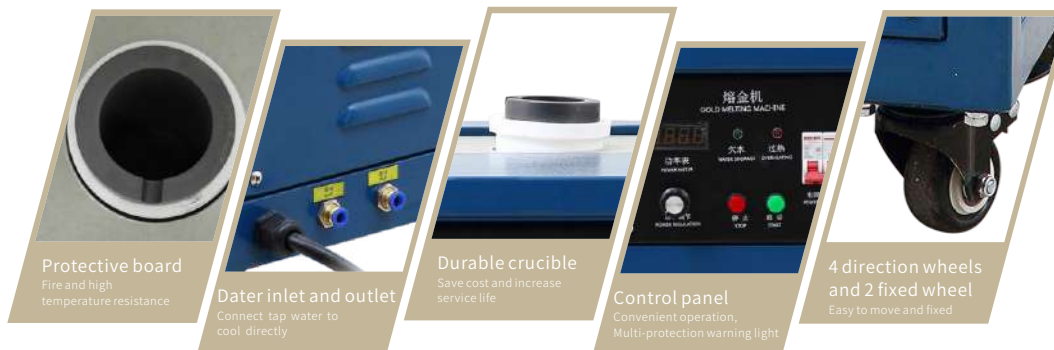
Model number	SPB-H1	SPB-H2
Power source	Single phase 220V, 50/60Hz	Single phase 220V, 50/60Hz
Power	3.5kw	3.8kw
Applicable metal	Gold, Silver, Copper, Brass, Bronze, and their alloys	Gold, Silver, Copper, Brass, Bronze, and their alloys
Melting time	2 minutes	2 minutes
Max capacity	24K Gold: 1.2 kg ; 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.



Metal 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.



SPB-B5



SPB-H5



Parameter

Model number	SPB-H5	SPB-B5
Power source	3 phase 380V/Single phase 220V, 50/60hz	3 phase 380V, 50/60Hz
Power	15kw/8.5kw	15kw
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: 10kg ; Silver: 5 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



Induction Melting Furnace



Description

SuperbMelt gold melting equipment (SPB-TB) can reach a maximum temperature of 1800°C (the max temperature of tilting platinum smelter is 2600°C) with a power rating of 15kw. This provides an ultra-high heating effect capable of melting either 4kg of platinum or 12kg of gold or 6kg of silver (and similarly commensurate weights of other metals) within a period of 2-5 minutes.

SuperbMelt platinum and gold smelting equipment can heat your raw metals very fast. It speeds up your operations with the ultimate effect of increasing the profit margin. The gold melting machine is suitable for jewelry foundry and old jewelry refining plants.

Click here to see more gold melting furnaces with different capacity



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 time	5 minutes
Max capacity	6kg Silver / 12kg gold (customized)
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.

Gold Smelting Furnace

Description

SuperbMelt gold smelting furnace unlike any other product on the market comes with awesome specifications. It has the capability of melting 20-30kg of non-ferrous metals like gold, silver, copper, aluminum. It can melt any metal up to a temperature of about 1800°C based on an induction power supply of 25-35kw. All within a short time frame of 6 to 8 minutes.

Induction gold smelting furnace split design enhances easy tilting. This feature which gives the room for pouring of liquefied metal without splashing or spillage.

Click here to see more metal melting furnaces with different capacity





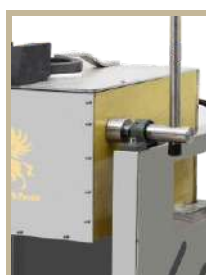
Parameter

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 fixed

Platinum Furnace

Description

SuperbMelt platinum melting furnace (SPB-B) is a totally ingenious technological creation which is designed with the aim of providing superior melting action on precious metals like platinum, gold, palladium or alloys of these metals.

This platinum smelting furnace can reach a temperature of about 2600°C (It is about 900°C higher than the platinum melting point.) in no time. This is suitable for melting metals (which may be in any form such as solid, dust, scrap, ingot or powder) weighing between 1kg and 4kg in a record time of less than 5 minutes.

SuperbMelt platinum melting furnace is your best bet if you run a scrap metal refinery business or an old jewelry refining plant. This furnace is just the machine you need to boost your production and overall efficiency.

Click here to see more metal melting furnaces with different capacity

Parameter



SPB-B1

Model number	SPB-B1	SPB-B2	SPB-B4
Power source	3 phase 380V \pm 10%, 50/60Hz	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	15 kw	15 kw	15 kw
Applicable metal	Platinum, palladium, gold and copper	Platinum, palladium, gold and copper	Platinum, palladium, gold and copper
Melting time	2 minutes	2 minutes	3 minutes
Max capacity	1kg Platinum	2kg Platinum	4kg Platinum
Max temperature	2600°C	2600°C	2600°C
Dimension	680*500*1180mm	680*500*1180mm	680*500*1180mm
Weight	88 kg	90 kg	92 kg
Heating technology	IGBT induction heating	IGBT Induction heating	IGBT Induction heating
Water pump	Build-in	Build-in	Build-in
Cooling way	Water cooling	Water cooling	Water cooling

Features

- Adopt solid-state IGBT inverter and power regulation, soft switch three double regulation, and frequency automatic tracking technology;
- It is with 100% full load capacity and 24 hours of continuous working ability;
- Electromagnetic stirring makes alloy liquid highly homogeneous;
- The occupied land for the platinum melting furnace is less than 1 square meter;
- Omni-bearing protection warning functions: overheating, over current, over voltage, short circuit, water shortage, and improper frequency;
- Modular design and ease of maintenance lead to low operation cost, low pollution and noise;
- Split type design, manual pouring after smelting to complete casting.

Parameter

Model number	SPB-TB2	SPB-TB4
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	15 kw	15 kw
Applicable metal	Platinum, palladium, gold and copper	Platinum, palladium, gold and copper
Melting time	2 minutes	3 minutes
Max capacity	2kg Platinum	4kg Platinum
Max temperature	2600°C	2600°C
Dimension	740*500*1360mm	740*500*1360mm
Weight	95 kg	100 kg
Heating technology	IGBT induction heating	IGBT induction heating
Water pump	Equipped	Equipped
Cooling way	Water cooling	Water cooling



Tilting



Induction Metal 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 number		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	23A	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℃							

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.

Tilting Melting Furnace

With a quick melting speed, the SuperbMelt silver melting furnace can melt 10-100kg of silver.

SuperbMelt is a company that specializes in the manufacture and supply of precious metal processing equipment. This chapter is about the Silver Smelter, a product of SuperbMelt.

The Silver Smelter from SuperbMelt uses induction heating technology, which can quickly and effectively dissolve silver, resulting in fully dissolved and refined silver. This technology is also extremely safe.



Patent No.: 2018SR1081273

SPB-RTF

Gold Melting Induction Furnace

SuperbMelt small induction furnace (SPB-CTF) can be used to melt any metal of choice. Both your ferrous and non-ferrous metals such as gold, silver and lead can easily be processed in no time. This small induction machine (SPB-CTF) can accommodate metals in the weight range of 10kg to 50kg.

SuperbMelt small induction furnace (SPB-CTF) also comes with a digital Simen control system (PLC) It gives more precision and accuracy to your readings.

Have you got a small foundry, such as copper foundry, iron foundry, precious metal recovery plant, precious metal foundry? With the best price, SuperbMelt induction melting furnaces are got you covered.

[Click here to see more metal melting furnaces with different capacity](#)



Patent No.: 2018SR1079895

SPB-CTF

Hydraulic Tilting Induction Furnace

The SuperbMelt Induction Furnace is an electric furnace that melts metal using induction heating. It works by creating a magnetic field that induces eddy currents in the metal, causing it to heat up and melt.

SuperbMelt This type of furnace (50-250kg) is commonly used in the jewelry foundry industry for melting and casting all types of metals, including precious metals such as gold, silver and platinum, and other non-ferrous metals such as copper, brass and aluminium.

SuperbMelt is an induction furnace manufacturer offering a range of models to meet different melting needs from small scale to large scale production.



SPB-HTF

Vacuum Induction Melting Machine

Description

A vacuum induction melting furnace is used for melting gold, silver, platinum, nickel, cobalt, palladium, and other precious metals. It employs vacuum melting and anti-oxidation technologies to melt high-quality and high-purity precious metals.

Vacuum melting furnaces are commonly used for producing specialty alloys, superalloys, and high-purity metals in luxury jewelry. They provide precise control over the melting process, enabling manufacturers to achieve specific compositions and desired properties in the final product.



Parameter

Model number	SPB-VTB15
Power source	3 phase 380V, 50/60Hz
Power	15 kw
Applicable metal	Gold, Silver, Platinum, Palladium, and their alloys
Melting time	7-10 minutes
Max capacity	Platinum: 2 kg Gold: 3 kg Silver: 1.6 kg
Max temperature	2600°C
Water cooling requirement	$\geq 0.3\text{Mpa}$, flow rate $\geq 20\text{L/min}$, $\leq 45^\circ\text{C}$
Dimension	690*1200*1100mm
Weight	220 kg
Heating technology	Induction heating

Features

- Small batch, flexible melting, low environmental pollution, easy control of melting temperature;
- Ease of handling, ability to melt high temperature metals, reduces loss of metals and alloys;
- It can use all the heat to melt in the vacuum chamber, and can eliminate the gas in the metal;



Antioxidant
The melt does not need to be in contact with air



Copper mold
Custom shape molds are available



Control panel
Convenient operation,
Multi-protection
warning light



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

Vacuum Pressure Casting Machine

Description

The jewelry melting and casting is under vacuum with argon pressure to protect your precious jewelry from oxidation. It achieves high density, high compactness, with almost no air bubble and reaches basically non-shrinkage cavity casting.

Has an accurate digital temperature control system with the temperature control errors of $\pm 2^{\circ}\text{C}$.

Any precise jewelry and metal artworks could be perfectly done by SuperbMelt vacuum pressurized casting machine.

Parameter

Model number	SPB-DM2	SPB-DM4	SPB-DM6
Power source	Single phase 220V / 3 phase 380V, 50/60hz		3 phase 380V, 50/60Hz
Power	8.5 kw	15kw	25 kw
Casting system	Vacuum pressure casting system		
Applicable metal	Gold, Silver, Copper, Brass, Bronze, and their alloys		
Melting time	3-5 min		
The Max capacity	24K Gold: 2.0 kg 18K Gold: 1.5 kg 925 Silver: 1.0 kg	24K Gold: 4.0 kg 18K Gold: 3.0 kg 925 Silver: 2.0 kg	24K Gold: 6.0 kg 18K Gold: 4.0 kg 925 Silver: 2.0 kg
Max heating temperature	1600°C		
Max temp control K-type	1100°C (Standard configuration)		
Accuracy of temperature	± 2 degrees Celsius		
Dimension	720×700×1150 mm	720×700×1150 mm	720×800×1150 mm
Weight	210 kg	215 kg	250 kg
Control of temperature	By PID	By PID	By PID
Protective gas	Nitrogen or argon		
Max flask size	D101*H254 mm	Normal D101*H254 mm (Customized available)	Normal D160*H254 mm (Customized available)



Patent No.: 2018SR1066478

Vacuum Mixer

Parameter

Model number	SPB-IPM2
Power source	3 phase 380V, 50/60Hz
Power	500w
Applicable	Mix investment powder
Flask chamber size	Φ350*H300
Mixer chamber size	Φ300*H400
Max capacity	5 pcs of 4*10 inch flask
Powder weight	15kg
Dimension	180*650*1500mm
Weight	150kg
Mixing time setting	Available
Vacuum time setting	Available
Water auto feeding	Available

Features

- Vacuum gypsum powder mixer is used for making plaster molds for metal casting;
- Mixing and pouring can be done under vacuum status, which helps to save time and avoids water drops and bubbles. It realizes perfectly smooth of finished castings;
- Reduces exposure to potentially harmful silica dust particles because of reduced dust release from closed rooms. Consistent investment and control environment;
- Low scrap rate, ensures production efficiency and increases production;
- It is preferred for Jewelry making and meets the needs of fine casting.



Wax Burnout Oven

Features

- Make use of advanced temperature control instrument, digital display and (8-30 section) automatic temperature program with distant clear observation, accurate temperature control;
- There is over-temperature protection and thermocouple protection. When the temperature exceeds the setting value or thermocouple meets failure, the oven stops working automatically to avoid the risk of machine damage and fire;
- It is equipped with intermittent power-on and off function to control the heating-up speed, so as to ensure the sintering quality of plaster mold for ensuring the quality of casting;
- The heating chamber is made of advanced high-temperature ceramic plate. The advantages are high-temperature resistance, good heat conduction, thermal shock resistance, environmental safety and so on;
- The furnace door is equipped with a safety device. When the doors open, the furnace will shut down automatically to ensure the safety of the operators.



Parameter

Model number	Power source	Power	Capacity	Operation temperature	Chamber size	Dimension
SPB-WF2	Single phase 220V	2.5kw	2 pcs of 4*9 inch flasks	850°C	300*150*270mm	700*400*750mm
SPB-WF4	Single phase 220V	3kw	4 pcs of 4*9 inch flasks	850°C	300*300*270mm	700*550*750mm
SPB-WF6	Single phase 220V	4kw	6 pcs of 4*9 inch flasks	850°C	450*300*270mm	800*550*750mm
SPB-WF12	3 phase 380V, 50/60Hz	6kw	12 pcs of 4*9 inch flasks	850°C	450*300*520mm	800*550*750mm
SPB-WF18	3 phase 380V, 50/60Hz	9kw	18 pcs of 4*9 inch flasks	850°C	450*300*520mm	800*720*750mm
SPB-WF24	3 phase 380V, 50/60Hz	9kw	24 pcs of 4*9 inch flasks	850°C	570*440*520mm	900*720*750mm
SPB-WF32	3 phase 380V, 50/60Hz	12kw	32 pcs of 4*9 inch flasks	850°C	580*580*530mm	900*840*850mm
SPB-WF40	3 phase 380V, 50/60Hz	12kw	40 pcs of 4*9 inch flasks	850°C	700*580*530mm	1040*840*850mm

Burnout Oven

Features

- Make use of advanced temperature control instrument, digital display and (8-30 section) automatic temperature program with distant clear observation, accurate temperature control;
- There is over-temperature protection and thermocouple protection. When the temperature exceeds the setting value or thermocouple meets failure, the oven stops working automatically to avoid the risk of machine damage and fire;
- The machine has an automatic on-off setting;
- It is equipped with intermittent power-on and off function to control a heating-up speed, so as to ensure the sintering quality of plaster mold for ensuring the quality of casting;
- The reasonable layout of heating elements uniforms the temperature in the whole chamber. It is convenient for water evaporation and improves the life of heating elements;
- The heating chamber is made of advanced high-temperature ceramic plate. The advantages are high-temperature resistance, good heat conduction, thermal shock resistance, environmental safety and so on;
- The furnace door is equipped with a safety device. When the doors open, the furnace will shut down automatically to ensure the safety of the operators;
- Wax after-burning design will re-collect wax fumes during the top burner to burn again during the dewaxing process. It could reduce the bad wax flavor as much as possible to improve the working condition.



Parameter

Model number	SPB-HWF12	SPB-HWF24
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	5kw	11.5kw (9kw+2.5kw)
Capacity	12 pcs of 4*9inch flask	24 pcs of 4*9inch flask
Max temperature	999°C	999°C
Operation temperature	850°C	850°C
Chamber size	450*290*520mm	420*550*500mm
Dimension	800*550*830mm	850*1200*1900mm
Weight	183kg	230kg

Mini Vacuum Jewelry Casting Kit



Description

SuperbMelt vacuum jewelry casting kit (SPB-MVC150) is a top-quality product that is specifically designed to hold metals whose weight do not exceed 300g gold, platinum or 150g silver.

The mini vacuum metal casting machine comes with a quartz and an inbuilt furnace. It is capable of heating up to a maximum temp of 2600°C. The above features makes this product suitable for casting tough metals such as gold, platinum, palladium and silver. etc.

Jewelry casting kit (SPB-MVC150) is equipped with a gas chamber. The gas chamber that releases pressurized inert gases which completely eliminate any form of porosity and oxidation during the casting process. This feature that gives your final cast as touch of class and quality.



Vacuum Pressure Casting Machine

Parameter

Model number	SPB-MVC150
Power source	220V
Power	4.5kw
Maximum temperature	2600°C
Melting method	Induction Heating
Capacity	300g Gold/150g Silver
Application	Gold, silver, platinum, palladium, steel, copper
Control system	PLC
Melting time	5-6 mins
Gas pressure	Max. 3.5 MPa
Pressurized atmosphere	Argon
Ultimate vacuum	-0.1 MPa
Type of crucibles	Graphite or quartz crucibles
Cooling system	Water cooling
vacuum pump	built-in
Automatic vacuum function	Y
Casting method	Automatic flip and vacuum casting



Patent No.: ZL201721322065.3
2018SR1076984

Features

- Inert gas protection: Avoid oxidation of precious metals;
- Vacuum and pressure casting: No porosity and no shrinkage;
- Compact vacuum design: Cost saving and space saving;
- PLC control: Intelligent operation;
- Auto-casting: Reduce the failure of manual casting.



Investment Powder Mixing Machine

This equipment is a perfect match for mini vacuum casting machine. It omits the operation of mixing powder, vacuum pumping, powder injection and vacuum re-vacuuming. Integration of vacuum pumping, powder mixing and powder injection, it works in one motion to minimize bubbles.

Features: space saving, fast speed, multi-function.

Model number	SPB-MIPM1
Power source	220V
Power	4.5kw
Dimension	540*510*390mm
Weight	18kg



Mini Wax Burnout Oven

SuperbMelt Is A Professional Manufacturer Of Wax Melting Machines, Focusing On Melting Wax Flowing In Plaster Molds. A Hollow Plaster Mold Is Obtained During Jewelry Casting.

Special Design For Secondary Combustion; Re-Collect The Incomplete Combustion During The Dewaxing Process, Let It Burn Again And Fully Burn It, And Reduce The Wax Smell In The Environment As Much As Possible.

Model number	SPB-MWF1
Power source	220V
Power	4kw
Chamber size	300*200*120mm
Max temperature	1100°C
Weight	75kg



Vacuum Pressure Casting Machine

To spray off casting surface particles to make it clean, to reach certain brightness on the surface.

Application: small hardware accessories, craft gifts, gold and silver jewelry, engraving surface of small workpieces and so on.

Features: light and flexible spay gun, low investment, high efficiency, simple operation and convenient maintenance.

Model number	SPB-PS-A
Power source	220V
Power	250w
Dimension	490*410*360mm
Weight	75kg

Centrifugal Casting Machine

Description

Superbmelts centrifugal casting machine is used to cast high temperature metals such as palladium, platinum, stainless steel etc. These metals are high temperature metals which makes the centrifugal casting machine the right equipment for melting and casting these metals. The melting temperature reaches up to 2600 degree celsius.

The process of casting involves molten liquid being poured into a rotating mold at a specific temperature. Basically, the molten metal must have a specific temperature to reach the designed length and thickness prior to freezing. The mold rotates at a certain speed controlled by an electric motor, causing the molten metal to rotate in its central axis.

Centrifugal casting machines are usually applied in jewelry making, casting crowns and bridges for dental purposes, mineral processes, etc. Casting with a centrifugal machine is very easy and economical for business advancement.

Parameter

Model number	SPB-CPC250
Power source	Three phase AC 380V
Power	6kw Adjustable
Applicable metal	Pt, Pd, Stainless Steel
Max flask	4*8 inch
Crucible size	D65.5mm*H130mm
Centrifuge method	Crankshaft
Cooling method	Water Cooling
Elevation ways	Pneumatic
Dimension	140*140*120CM
Weight	500kg



Features

- In centrifugal casting, a permanent mold made from steel, cast iron, or graphite is typically used.
- Metals cast with centrifugal casting machines have a very fine grain on the outer surface and possess mechanical properties approximately 30% higher than other parts formed with static casting methods.
- The finished products have smoother surface, durable and long lasting.
- Minimizes the risk of formation of weak points or areas of porosity within the metal, leaving a highly pure end-product.
- Increased product purity has its effects on production cost-efficiency. High quality products reduce material waste.

Silver Casting Machine

Description

SuperbMelt silver casting machine (SPB-JD1) is designed for casting 1-2kg quality silver and gold bars. This casting machine comes with the flexibility to customize your silver and gold bar, ingot and bullion bars to any of your desired LMBA approved deal specifications.

The pressurized inert gas chamber of this silver and gold bar casting machine ensures that you have a final cast with top quality and impeccable appearance by completely eliminating all forms of porosity, water waves or shrinkage in your final piece.

Compared with the traditional method. Your whole casting process will be done under vacuum. This prevents ripples and further oxidation of your final piece. Thereby giving your product a touch of quality. With the above features the safety of your operators is better guaranteed.

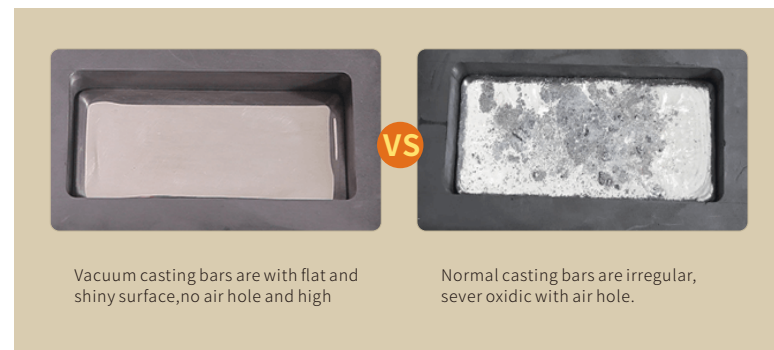
[Click here if you need a big capacity gold bar casting machine with higher efficiency](#)

Parameter

Model number	SPB-JD1
Power source	3 phase 380V, 50/60Hz
Power	15 kw
Applicable metal	Gold and silver
Casting time	About 12 mins
Max capacity	2kg gold bar or 1kg silver bar
Dimension	1000*800*1350 mm
Weight	205 kg
Protective gas	Nitrogen or argon
Vacuum pump	63 m ³ /hour
Heating technology	Induction heating
Casting mode	Auto and manual mode switch



SPB-JD1



Features

- It is flameless to ensure worker safety;
- It could cast your fine gold with mirror face to enjoy the market;
- 24 hours continuous working improves your bar production mostly;
- One button realizes fully automatic casting process to save labor cost;
- The entire smelting and casting process is fully sealed, smokeless, and environmentally friendly;
- It works under vacuum to avoid bullion's oxidation, shrinkage, and water wave, which helps reduce the loss of precious metal;
- The machine provides the following advantages: Quiet operation, High efficiency, Self-diagnostics, low pollution, and low noise.



Patent No.: ZL201721322076.1
2018SR1066467

SPB-JD4/JD10

Parameter

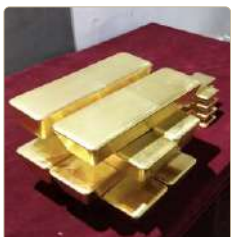
Model number	SPB-JD4	SPB-JD10
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	45 kw	75 kw
Control system	PLC	PLC
Applicable metal	Gold and silver	Gold and silver
Casting time	About 15 mins	About 12mins for kilobar or 25mins for 400oz bar
Max capacity	4 pcs of 1kg bar	4 pcs of 1kg bar or 400oz gold bar
Dimension	1450*620*1080 mm	1510*750*1250mm
Weight	285 kg	360 kg
Protective gas	Nitrogen or argon	Nitrogen or argon
Vacuum pump	63 m ³ /hour	63 m ³ /hour
Heating technology	Induction heating	Induction heating
Casting mode	Auto and manual mode switch	Auto and manual mode switch



Tunnel Bar Casting Machine

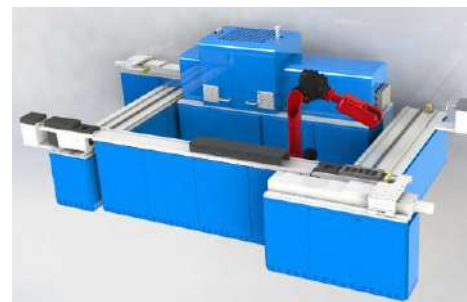
Description

SuperbMelt tunnel casting machine use high automation technology, it realizes the casting of 1-12.5kg gold and silver ingots, and the size can be customized according to requirements. Under the protection of nitrogen or argon, the finished product is flat and smooth.



Parameter

Model number	SPB-JDS
Voltage	380V
Power	180kw
Control system	PLC control
Applicable metals	gold, silver
Protective gas	nitrogen, argon
Output	60 pieces of 1kg gold/hour
Capacity	5 pieces of 1kg gold/furnace
Cooling method	water cooling
Maximum temperature	1600°C
Dimensions	5300*4200*1650mm



Features

- High Efficiency**
The automation level is high. After the raw materials are put into the mold, they are transported through the tunnel, so that the melting and casting can be realized at one time.
- Good Product Quality**
There is an inert gas protection during work to avoid the generation of air bubbles and ensure the smoothness of the finished product.
- Multiple Specifications**
The size of gold and silver ingots can be customized according to requirements to achieve multi-standard production.
- Easy to Operate**
PLC touch screen control, with manual and automatic modes optional, the operation is more simple and convenient.
- Continuously Working**
The performance of the equipment is stable, it can work continuously and realize mass production easily.

Granulator Machine

Features

- Smooth appearance and line of whole machine, automatic tracking frequency without noises, and rapid granulating;
- Adopt solid-state technology which is the latest and most advanced IGBTs modules available worldwide;
- Super low-voltage design of induction coil and perfect self-protection function of the machine body;
- Good grain effect of casting.



Parameter

Model number	SPB-JL15	SPB-JL25	SPB-JL35
Power source	3 phase 380V, 50/60Hz		
Power	15 kw	25 kw	35kw
Applicable metal	Gold, K-gold, Silver, Copper		
Casting method	Gravity granulation		
The Max capacity	24K Gold: 6.0 kg ; 925 Silver: 3 kg	24K Gold: 15.0 kg ; 925 Silver: 8.0 kg	24K Gold: 30.0 kg ; 925 Silver: 16.0 kg
Casting material	Particles		
Dimension	1200*530*1200mm		
Weight	150KG	180KG	220KG

Vacuum Granulating Machine

Description

Vacuum metal granulators are used to granulate various precious metals such as gold, silver, copper and alloys. It works by first heating the metal material to its melting point in a vacuum chamber, then passing through a multi-hollow crucible as a current breaker, and finally flowing into a circulating water groove to cool into regular metal particles without oxidation.

SuperbMelt vacuum metal granulator performs smelting work under the environment of full vacuum inert gas, and is equipped with an electromagnetic automatic stirring device, so that the finished product of the metal particles can not be oxidized and has uniform spherical shape and luster.

It is most commonly used in precious metal refinery and jewelry manufacturing plants with high quality requirements.



Patent No.: 2018SR1066453



Parameter

Model number	SPB-VS55P	SPB-VS10P	SPB-VS20P
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60H	3 phase 380V, 50/60H
Power	15 kw	25 kw	35kw
Casting system	Vacuum casting system		
Applicable metal	Gold, K-gold, Silver, Copper, Brass, Bronze, and their alloys	Gold, K-gold, Silver, Copper, Brass, Bronze, and their alloys	Gold, K-gold, Silver, Copper, Brass, Bronze, and their alloys
Melting time	5-6 min		
Max capacity	24K Gold: 5.0 kg; 925 Silver: 2.5 kg	24K Gold: 10.0 kg; 925 Silver: 5.0 kg	24K Gold: 20.0 kg; 925 Silver: 10.0 kg
Max heating temperature	1600°C		
Max temp control K-type	1100°C		
Casting chamber size	D275*H1100mm	D330*H840mm	D385*H1000mm
Dimension	730*935*1600mm	800*1020*1700mm	850*1050*1800mm
Weight	175KG	235KG	265KG
Protective gas	Argon		
Vacuum pump (Optional)	63 m ³ /hour		
Control of temperature	by PID		
Accuracy of temperature	±2 degrees Celsius		
Vacuum filter	Y		
Vacuum leakage detector	Y		
Casting chamber auto lift	Y		

Features

- Heating coil with low-voltage design, insulated heating, safe, and reliable;
- The induction generator is designed to allow the homogenization of the alloy thanks to the stirring effect of the magnetic field which works while the metal is being melted in the crucible;
- Water in the tank is continuously circulating and it is cooled by a powerful chiller to keep the process variables under control and obtaining consistency and quality in the produced grains;
- Easy to get materials from granulating barrel and can supplement cooling water.



Non-vacuum casting: The granules are not uniform, water wrapped and poor quality.



Vacuum casting: The granules are smooth, shiny, no air hole and high density.

Copper Continuous Casting Machine

Description

The purpose of a continuous casting machine is to produce metal shapes with a constant cross-section, while minimizing waste and reducing costs in comparison to traditional methods such as ingot casting.

SuperbMelt continuous casting machines are specially designed for casting high-density metals such as gold, silver and copper. With this continuous casting equipment, you can cast any metal into any desired shape.

You have the flexibility to cast in the following shapes: rectangular, cylindrical, round and rod. This machine also adopts gas melting protection technology. This technology allows for precise and automated temperature control and stirring. This feature helps you achieve a high-quality end product.





Parameter

Model number	SPB-LS4	SPB-LS8
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	15 kw	25kw
Applicable metal	Gold, Silver, Copper, Brass, Bronze, and their alloys	Gold, Silver, Copper, Brass, Bronze, and their alloys
Max capacity	24K Gold: 4.0 kg ; 18K Gold: 3.0 kg ; 925 Silver: 2.5 kg	24K Gold: 8.0 kg ; 18K Gold: 6.0 kg ; 925 Silver: 4.0 kg
Melting time	5 min	8 min
Casting Application	Rod: Φ4-Φ30mm Tube: Min Φ9*12mm Max Φ27*30mm Strip: Min T5*W10mm Max T20*W30mm	Rod: Φ4-Φ30mm Tube: Min Φ9*12mm Max Φ52*60mm Strip: Min T5*W10mm Max T20*W70mm
Max temperature	1600°C	1600°C
Max temp control K-type (Standard configuration)	1100°C	1100°C
Dimension	1120×840×1560 mm	1120×840×1560 mm
Weight	195 kg	205 kg
Protective gas	Nitrogen or argon	Nitrogen or argon
Heating system	Induction heating	Induction heating
Control of temperature	By PID	By PID
Accuracy of temperature	±2 degrees Celsius	±2 degrees Celsius



Features

- The fully integrated system ensures consistent casting quality and complete inert gas protection of crucible and die system;
- 24H continuous working yields high production rate;
- Automatic control of the casting parameters which can produce alloys or semi-finished products in different shapes and sizes in the shortest time;
- Unique induction heating with auto stirring function to strengthen the power and to make even colored items and big casting capacity in order to improve production efficiency.

Vacuum Continuous Casting Machine



Description

The Vacuum Continuous Casting Machine is specifically designed for high-density gold, K-gold, silver, and other reinforced precious metal sheets, rods, rectangular bars, round tubes, and other special-shaped products. By controlling the vacuum environment, the casting can avoid porosity, oxidation, and other defects, resulting in higher density and material uniformity.

Through advanced casting technology and top-notch mechanical engineering, it achieves optimal metallurgical and high-precision standards. The SuperbMelt Vacuum Continuous Casting Machine offers excellent speed, reliability, and cost-effectiveness.





Parameter

Model number	SPB-LS4V	SPB-LS8V
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	15 kw	25kw
Applicable metal	Gold, K gold, Silver, Copper and their alloys, Etc.	Gold, K gold, Silver, Copper and their alloys, Etc.
Max capacity	24K Gold: 4.0 kg ; 18K Gold: 3.0 kg ; 925 Silver: 2.5 kg	24K Gold: 8.0 kg ; 18K Gold: 6.0 kg ; 925 Silver: 4.0 kg
Melting time	10 min	10 min
Casting Application	Rod: Φ4-Φ30mm Tube: Min Φ9*12mm Max Φ27*30mm Strip: Min T5*W10mm Max T20*W30mm	Rod: Φ4-Φ30mm Tube: Min Φ9*12mm Max Φ52*60mm Strip: Min T5*W10mm Max T20*W70mm
Max temperature	1600°C	1600°C
Max temp control K-type (Standard configuration)	1100°C	1100°C
Dimension	900X1150X2000mm	900X1150X2000mm
Weight	260 kg	265kg
Protective gas	Argon/Nitrogen	Argon/Nitrogen
Heating system	Induction heating	Induction heating
Control of temperature	By PID	By PID
Accuracy of temperature	±2 degrees Celsius	±2 degrees Celsius



Features

- The fully integrated system ensures consistent casting quality and provides complete inert gas protection for the crucible and die system.
- With 24-hour continuous operation, it yields a high production rate.
- Casting parameters are automatically controlled, allowing for the production of alloys or semi-finished products of various shapes and sizes in the shortest possible time.
- The system utilizes unique induction heating and vacuum anti-oxidation technology, resulting in enhanced power, uniform coloring of products, increased casting capacity, and improved production efficiency.

Water Atomization Metal Powder

Description

SuperbMelt uses a combination of melting furnace and water metal atomizer to achieve the pulverization of most metals and alloys. Especially some refractory metals with high melting point and high reactivity characteristics, including Au, Ag, Pd, Pt, Co, Cu, Ni, Fe, Zn, etc.

In the traditional metal milling process, limited by physical factors, the powder cannot be changed according to the cleanliness and fineness required by customers.

Under the use of ultra-high pressure water system, the metal liquid can be broken into fine metal droplets, and a large number of sub-spherical and irregular particles can be formed after rapid cooling of water, and under the protection of inert gas, the finished powder can be made very meticulous.

Parameter

Model number	SPB-VPM4	SPB-VPM10	SPB-VPM30	SPB-VPM50	SPB-VPM100
Voltage	380V				
Power	45kw	25kw	50kw	70kw	100kw
Max Temperature	1600-2600°C				
Melting Time	15Min				20Min
Max Capacity	4kg(Pt)	10kg(Au)	30kg(Au)	50kg(Au)	100kg(Au)
Applicable Metals	Au、Ag、Cu、Pt、Pd、Rh				
Milling specifications	50-200Mesh				
Cooling Method	Water Cooling				
Milling Time	20Min		35Min		60Min
Dimensions	1500*1300*2100mm				
Weight	800kg		850kg		900kg



Features

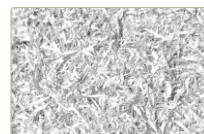
- High Efficiency**
 The configuration of the high-pressure water system greatly improves the atomizing efficiency, and 25kg of metal powder can be produced one hour;
- Adjustable Meshes**
 The number of meshes can also be adjusted according to process requirements. 80% of metal powder can reach less than 50 mesh;
- PLC Control System**
 Equipped with touch-screen PLC control system and can realize fully automatic operation. After setting the parameters, it can be smelted automatically.

Small Scrap Metal Shredder

Description

The metal shredder is an efficient device that can crush metal into small flakes or pieces. The shredded precious metal scraps can undergo refining without any loss, thereby expediting the refining process. This method of shredding not only enhances production capacity but also reduces costs.

By utilizing the metal shredder, precious metal scraps can be processed and refined rapidly and effectively, providing manufacturers with advantages of increased productivity and reduced expenses. The application of this innovative equipment not only improves production efficiency but also contributes positively to environmental sustainability and resource conservation.






Parameter

Model number	SPB-SP30	SPB-SP50	SPB-SP100
Voltage	380V		
Power	120kw		
Maximum temperature	2600℃	1600℃	
Melting time	12 min	15min	20min
Gas used	argon/nitrogen		
Maximum capacity	30KG (platinum)	50KG(gold)	100KG(gold)
Applicable metals	platinum, palladium, gold	gold, silver, copper	
Cooling method	water cooling		
Flap thickness	0.15-0.35mm		
Shaking time	about 20 min	about 35 min	about 60 min
Dimensions	2500*2000*2200mm		
Body weight	about 900KG	about 1000KG	about 1100KG



Features

-  **Dry Flakes**
 In an anhydrous working environment throughout the process. The finished product does not need to be dried and can be used directly, saving time and cost.
-  **Uniform Finished**
 Product The finished flake size and thickness are moderate, which is very suitable for refining applications.
-  **High Efficiency**
 Fully automatic and fast work, can complete 25 kg of gold flakes per hour, high production efficiency.

Automatic Diamond Setting Machine

Description

The automatic diamond setting machine is a fully automatic jewelry machine based on intelligent vision, which can set stones on jewelry such as rings, necklaces and earrings. The automatic stone setting machine integrates gluing and stone setting. The machine can set 7 diamonds in one second. The spray gun is above the stonehole. After the crystal nozzle takes the stone from the glue hole, it is quickly set on the wax mold.

This machine helps customers to realize the technology of setting diamonds in different shapes of molds, such as single channel, double channel, plate, tube, etc., and can also synthesize gemstones.

Parameter

Equipment name	3D Scan Auto Stone Setting Machine
Equipment Model	SPB-5DZ1000
Table structure	flat table & double rotary axis table structure
Drilling speed	6000-10000 drills / hour
Number of suction drill head	4 suction nozzles
Drill plate fixing method	movable force magnet on the upper side of the platform
Spot drilling accuracy	±0.02mm
Control system	industrial grade five-axis motion controller
Main operating system	Yupont's self-developed system
Main operati	High-end servo
Transmission method	high precision screw guide
Z*Y*Z/A/C effective stroke	300*250*120mm/180 degrees/360 degrees
Working power	AC220V/50Hz
Rated voltage	1.5kw
Working air pressure	80psi(0.5Mpa)
Equipment size	length 1150 * width 800 * height 1530mm
Equipment weight	about 500KG



3D Automatic Wax Setting Machine

Description

SuperbMelt mini wax setting machine can automatically set diamonds on jewelry wax models, and is used for post-production of gold, silver, copper and other diamond jewelry, such as rings, bracelets, earrings, pendants, etc.

Parameter

Equipment name	Mini Automatic Diamond Setting Machine
Equipment Model	SPB-3DZ500
Workbench structure	Five-axis linkage workbench
Spot drilling speed	9000-12000 drills / hour
Number of suction drill head	3 suction nozzles
Fixing method of drill head	Embedded
Spot drilling accuracy	±0.02mm
Control system	industrial five-axis motion controller
Main operating system	Self-research system of SuperbMelt Technology
Drive system	High-end servo
Transmission method	high precision screw guide
Z*Y*Z/A/C effective travel	300*250*120mm/150 degrees-90 degrees/360 degrees
Working power	AC220V/50Hz
Rated voltage	1.3kw
Working air pressure	80psi(0.4Mpa)
Equipment size	length 780 * width 730 * height 1400mm
Equipment weight	About 350KG

Features

1. The machine runs at a very high speed and can reach 9000-12000 pieces per hour. One machine is equivalent to the production capacity of 8 experienced employees. Mass production can be easily realized, which is very suitable for large-scale jewelry processing and manufacturers.

2. 5 axes work at the same time, can achieve 540-degree rotation, and inlay complex and diverse 3D, curved and flat wax models. One machine can solve most wax mold inlay problems, and the cost performance is higher.



3. It can achieve monochrome or multi-color mosaic, up to 4 colors. The size of diamonds can be between 0.8-3.0mm, which can realize the diversification of a wax model, without the need for separate inlays, which saves more time.

4. The machine adopts intelligent recognition technology. When the suction nozzle detects that the diamond is misplaced or there is no blank, it will skip to the next diamond, which can ensure the quality of the wax model and avoid the occurrence of missing and wrong diamonds.

Xr1200 Analyzer for Jewelry

Description

Superbmelt XRF analyzer for jewellery is used to analyze precious metal purity and authenticity. The best XRF analyzer can perform a quick and accurate analysis of precious metals such as gold, silver, platinum, palladium and copper. Superbmelt XRF analyzer for jewellery can be used by customers in pawn shops, jewellery making industries, scrap recycling, laboratory testing, etc.

Parameter

Model	SPB-XR1200
Analysis Range	ppm to 99.99%
Accuracy	0.1%(Average)
Sample Form	Solid, powder, liquid
Tube Voltage	5KV ~ 50KV
High Voltage Power Supply	0 ~ 50KV
Camera	HD camera
Filters	Selectable customized switches
Detector Type	Proportional counter tube
Analyzer	Multi channel simulation
Sample Chamber Size	380 * 380 * 60 (mm)
Test Time	5sec ~ 60sec
Detection Elements Range	Au, Ag, Pt, Pd, Cu. (Zn and Ni will be in Cu; Cd in Ag)
Standard Accessory	Jewelry holder*1, power cable*1, calibration samples*1
Analysis Software	Qualitative and quantitative analysis software
External Dimensions	480 * 480 * 390 (mm)
Weight	38Kg



Features

- High Precision**
Accurate analysis of precious metal purity, such as gold, silver, platinum and palladium, at an analytical tolerance range of 0.01% to 0.03%.
- Fast Testing**
Testing and analysis time with the XRF gold tester is very fast, analysis is usually completed within 5 to 60 seconds.
- High Accuracy**
Adopting a unique optical technology and calculation method to ensure the accuracy of results.
- Various Shapes**
SuperbMelt jewellery analyzer can measure different sizes and shapes of metal. Which makes it suitable for use in pawn shops, jewellery making industries, scrap recycling, etc.



Xr2800 XRF Gold Tester

Description

SuperbMelt XRF gold tester is used for the analysis and detection of precious metals, such as the purity test of gold, silver, copper, platinum, palladium, iridium and other elements. Usually gold is the most commonly measured metal, so it has quite a wide range of applications in jewelry, precious metal recycling and pawn industry.

Superbmelt XRF gold tester performs a non-destructive and accurate analysis of precious metals in order to determine their authenticity. The process is testing takes between 5 to 60 seconds.

Parameter

Model	SPB-XR2800
Analysis Range	0.01% to 99.99%
Accuracy	0.05% ~ 0.1%
Sample Form	Solid, powder, liquid
Tube Voltage	5KV ~ 50KV
High Voltage Power Supply	0 ~ 50KV
Camera	HD camera
Filters	Selectable customized switches
Detector Type	Proportional counter tube
Multichannel Analyzer	Digital multichannel
Sample Chamber Size	310 * 270 * 90 (mm)
Test Time	5 ~ 60sec
Measuring Element	Au Ag Pt Pd Ir Cu
Analysis Software	Qualitative and quantitative analysis software
External Dimensions	510 * 400 * 420 (mm)
Weight	36Kg
Ambient Temperature	5 °C ~ 30 °C (Suggested that in air conditioning room)
Relative Humidity	15% ~ 85%
Power Requirements	AC 220V ± 5V, 50/ 60 Hz
No high power electromagnetic and vibration interference sources nearby	



Features

- SuperbMelt gold testing machine has Microsoft Windows software that is easy to use. The software requires no standard samples for calibration.
- The light reflected from the sample is captured by x-ray spectrum technology, and then the value is automatically read by the computer, and the accuracy can reach 0.05%-0.1%. And the result of testing is close to fire assay.
- SuperbMelt XRF gold analyzer has a camera that allows you to see the x-ray spot position from your computer for a more effective analysis.
- SuperbMelt XRF testing equipment is safe to use through the unique design that seals the x-ray within the chamber. The x-ray does not escape the chamber to harm the operator.
- There is no need to directly contact the sample during measurement, and XRF technology does not require any physical and chemical treatment, so it will not damage precious metal samples such as gold and silver.

Xr3800 XRF Gold Analyzer

Description

SuperbMelt XRF Gold Analyzer (model XRA3800). It can be used to examine 72 metals including solid/liquid/metal powders such as 7 copper, zinc, platinum, palladium, platinum niobium and gold.

The SuperbMelt XRF gold tester provides fast, accurate and non-destructive analysis of metals. the XRF precious metal analyser' s built-in and user-friendly software makes it simple to use in the pawn industry, refineries, gold mines.

A wide variety of j-metal items, including jewellery chains, rings, gold bars, liquids, powders and mineral rocks, can be tested with this machine. This XRF gold analyser performs qualitative analysis in less than 30 seconds.

Parameter

Model	SPB-XR3800
Analysis Range	ppm to 99.99%
Accuracy	0.03%
Sample Form	Solid, powder, liquid
Tube Voltage	5KV ~ 50KV
High Voltage Power Supply	0 ~ 50KV
Camera	HD camera
Filters	Selectable customized switches
Detector Type	Proportional Counter Tube
Resolution	145 + 5 ev
Multichannel Analyzer	Digital multichannel
Sample Chamber Size	310 * 270 * 80 (mm)
Test Time	3sec ~ 60sec
Measuring Element	72 elements from sodium (Na) to uranium (U) except (Na, Mg, Al, Si, P, S, Cl, Ar, K, Ca) light elements
Analysis Software	Qualitative and quantitative analysis software
External Dimensions	460 * 390 * 360 (mm)
Weight	38Kg



Features

- High Accurate**
Analysis results close to fire assay result.
- Rapid Analysis**
Only takes several seconds for qualitative analysis, and 1 to 2 minutes for quantitative analysis.
- 25 Element Display**
SuperbMelt XRF precious metal analyzer can display over 72 elements at the same time on the high-resolution screen.
- High Precision**
Has an analytical tolerance of 0.01%-0.3%.



Xr5000 XRF Gold Tester

Description

A non-destructive analytical tool, the SuperbMelt XRF Gold Tester can not only find and analyze gold, but also find and analyze metal elements dating back to No. 12-92. The XRF Gold Tester has a detection accuracy of up to $\pm 0.05\%$, although the accuracy decreases with decreasing content.

When a sample is excited by a primary X-ray source, the XRF Gold Tester measures the fluorescent X-rays that are released by the sample. Every element that is present in a material creates its own distinct fingerprint, or specific set of fluorescence. Because each material's fingerprints are unique, handheld XRF gold analysis is a fantastic tool for both quantitative and qualitative evaluations.



Parameter

Model	SPB-XR5000
Analytical Method	Energy dispersive X ray fluorescence analytical Method
Elements Measuring Range	Atomic number from 12 to 92 [elements from magnesium(Mg) to uranium (U)] can be measured
Simultaneous detector elements	Simultaneous analysis 40 elements
Microcomputer system	Customized system; CPU: 1G ; system memory: 1G ; extended stored maximum support 32G ; standard 4G for mass storage data
The content range	ppm~99.99%
The detection time	1-60 seconds (a second report results)
A built-in system	GPS, WIFI, Bluetooth
Power Supply	Rechargeable lithium battery, standard is 9000mAh, sustainable work up to 12 hours; optional is 27000mAh superbattery with wide voltage 110V ~ 220V universal adapter for recharging power supply
Detection Objective	Solid, liquid, powder
Detector	SDD detector or Fast-SDD detector (optional)
Detector resolution	Minimum can reach 128eV
The excitation source	50KV/200uA- silver target end window integrated miniature X ray tube and high voltage power supply
Collimator and filter	Collimator diameters are 4.0mm and 2.0mm, 6 kinds of filters with automatic switching functions
Video system	500W pixel high resolution camera
Display screen	Brand new 5 inch transreflective LCD touch screen, the resolution is 1080 × 720
Detection limit	The minimum detection limits at 1 ~ 500 ppm
Operating ambient humidity	≤ 90%
Operating environmental temperature	-20°C~+50°C
Instrument dimension	244mm (Length) x 90mm (Width) x 330mm (Height)
Instrument weight	1.7Kg

Xr5800 Gold Tester Gun

Description

The Superbmelt gold tester gun is specifically designed for performing a nondestructive reading or detection of elements present in materials. It is able to detect elements in solid, liquid and powder form.

The Superbmelt gold tester gun can identify elements present in gold, silver, stainless steel, cobalt alloys, bronze, zinc, zinc alloy, nickel alloy, etc.

The Superbmelt gold tester gun is used in industries such as; metal and scrap recycling, pharmaceuticals, aerospace, food processing, mining and exploration, precious metal and jewelry, etc.

Parameter

Model	SPA-XR5800
Analysis	1 PPM to 99.99%
Sample form	Solid, powder, liquid
High voltage power supply	0 ~ 50 kv
Light control current	0 μ A ~ 100 μ A
Detector type	Proportional Counter Tube
Resolution of Si - pin	≤ 180 eV
Multichannel analyzer	Multichannel analyzer DMCP
Test time	3 SEC ~ 30 SEC
Measuring element	72 elements from sodium (Na) to uranium (U) except (Na, Mg, Al, Si, P, S, Cl, Ar, K, Ca) light elements
Analysis Software	Qualitative and quantitative analysis software
Shape size	290 * 230 * 90 (mm)
Weight	1.58Kg (with battery)
Ambient temperature	-5 °C ~ 45 °C
Relative humidity	< 90%



Features

Compact Design

SuperbMelt gold tester gun for sale by SuperbMelt is lightweight, portable in size, comfortable hand design that is easy to grasp and work in any environment.

High Accuracy

The brand new 5 inch transfective LCD touch screen with a resolution of 1080×720 and the 500W pixel high resolution camera contributes to the analyzer's accurate analysis of materials.

Various forms

SuperbMelt's gold tester gun has an Sipin detector that is able to detect and analyze materials in the form of solid, liquid or powder.

Safety

The gold tester gun is completely safe with its multiple safety protection, no tests, no radiation, radiation level when in use are far below the international safety standards, automatic shut X light tube function.

Mini Laser Welding Machine

Description

The mini laser welding machine is a compact size jewelry welding machine that is used to weld noble metals together in the jewelry making industry.

The mini laser welder uses an amplified beam of light to produce a solid weld with an invisible spot within seconds. The beam of light emitted from a jewelry laser welder is concentrated, adjusted and controlled by the user.

When adding metal or repairing jewelry using the jewelry welding machine, the same noble alloy is welded. The heat used in the welding process is localized such that the result of welding is seamless or result in no discolouration of the welded spot.



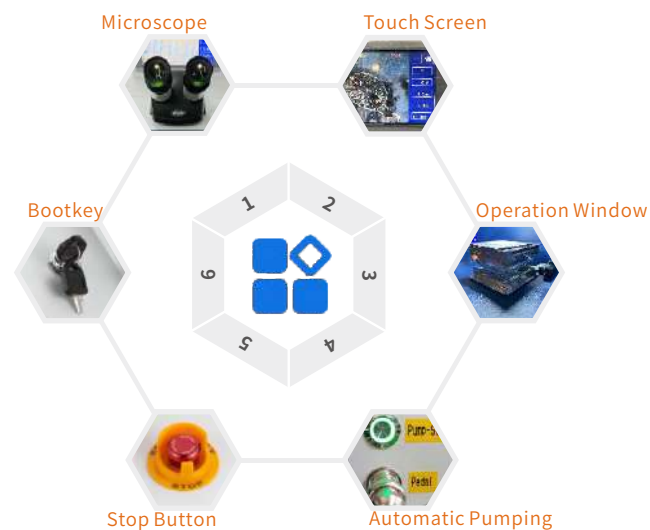
SPB-80WB



SPB-150WB

Parameter

Model number	SPB-80WB	SPB-150WB
Wavelength	1064nm	1064nm
Pump Source	Single Lamp	Single Lamp
Pulse Width	0.1-15ms	0.1-20ms
Pulse Frequency	<=10Hz	<=50Hz
Aiming and Positioning	Microscope + Camera System	Microscope + Camera System
Cooling System	AC220V±5%/60Hz	AC220V±5%/50Hz
Electricity Demand	Air Cooling	Built-in Water+ Air Cooling
weight	32KG	61KG
Dimensions	L:510mm*W:295mm*H:420mm	L:765mm*W:490mm*H:560mm

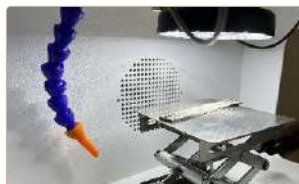


150W Small Laser Welding Machines

Description

150w 80J Laser welders mini jewelry laser welding machine for gold silver jewelry laser welding machine.

The superbMelt jewelry laser spot welder is widely used in the welding of the following products: electrical components, batteries, electrodes, weld socket connectors, motor covers, connecting lines, integrated circuits, clocks, small stamping parts and castings, and jewelry.



Parameter

Model number	SPB-S150W
Wavelength	1064nm
Pump Source	Single Lamp
Pulse Width	0.1-20ms
Pulse Frequency	<=50Hz
Aiming and Positioning	Microscope
Cooling System	AC220V±5%/60Hz
Electricity Demand	Built-in water cooling
weight	65KG
Dimensions	L:880mm*W:600mm*H:1100mm

Application

The laser welder can be used to weld the following non-metal and metal parts:

- Gold jewelry repair laser welding
- Electronic components laser welding
- Lithium battery laser welding
- Mobile phone parts laser welding
- Precision connector laser welding

200W Jewelry Laser Welder

Description

SuperbMelt laser welding machines weld jewelry with incredible speed. The welding process has high precision and almost flawless welding, which can be realized at 1064nm wavelength. The welding process is also easily controlled via the LCD display. Parameters such as current, frequency, pulse, and light spot can be automatically increased or decreased. The binocular microscope and camera unit allow the user to view the welding process to prevent errors during the welding process. The maximum output power is 200W.



Parameter

Model number	SPB-200WBC	SPB-S200WB
Wavelength	1064nm	1064nm
Pump Source	Single Lamp	Single Lamp
Pulse Width	0.1-20ms	0.1-20ms
Pulse Frequency	<=50Hz	<=50Hz
Aiming and Positioning	Microscope + Camera System	Microscope + Camera System
Cooling System	AC220V±5%/50Hz	AC220V±5%/50Hz
Electricity Demand	Built-in Water+ Air Cooling	Water + Air Cooling
weight	178KG	218KG
Dimensions	L: 1050mm*W:620mm*H: 1250mm	L:1050mm*W: 620mm*H:1250mm Chiller L:620*W:480*H:710mm



SPB-200WBC

Features

The whole machine is ergonomically designed, which is more suitable for the jewelry industry. The products are fine, beautiful, and stable in performance, suitable for long-term continuous work.

- Continuous working ability
- CCD monitorable system
- LED ring shadowless lamp



SPB-S200WB

Features

This type of welding machine is particularly popular in the dental and jewellery industry because it provides aesthetic welding.

- Easy to use
- High level of automation
- Environmentally safe

Small laser Cutting Machine

Description

SuperbMelt metal cutting machine can cut gold, silver, copper, platinum and other materials into various design patterns and shapes, and is widely used in jewelry hardware industry and other metal products, gold and silver cutting and processing industries.



Parameter

Model	SPB-LC2000
Power	2000W
Laser Wave Length	1064mm
Processing Format	400x250mm
Transmission Mode	ball screw/linear motor
Repeat Positioning Accuracy	±0.01mm
Working Temperature	0~40° C
The Maximum Load of the Workbench	100kg
Cutting Speed	Depends on the Thickness of the Material
Working Environment Humidity Range	< 70% non-condensing

Features

- Laser cutting machine is a laser processing equipment integrating light, machinery and electricity. It adopts laser technology, computer control technology and high-performance numerical control laser power supply system, and can process various specifications of metal plates quickly and efficiently.
- Small-format metal laser cutting machine is a new generation of safety, high efficiency, energy saving, environmental protection, precision, fast processing, small gap, and small thermal effect, especially suitable for metal sheet processing and simple, flexible and convenient operation.
- It can cut various metal sheets and pipes, mainly suitable for stainless steel, carbon steel, eridium steel, galvanized sheet and various alloys.

China Fiber Laser Engraving Machine

Description

SuperbMelt mini laser marking machine is mainly used for marking metal materials, such as jewelry made of gold, silver, copper and stainless steel, handicrafts, glasses clocks, electronic chips and other products.

It can sculpture logo, code, QR code, barcode, etc. The laser beam is mainly output through the fiber laser, then the set picture or content is etched on the metal material.

Parameter

Model Number	SPB-MFLM
Average Output Power	20W/30W/50W
Beam Quality	M ² :1.5(TEM00 mode)
Repeatability	0.01mm
Max Line Speed	12000mm/s
Min Line Width	0.017mm
Power Adjustment Range	1%-100%
Laser Wavelength	1064nm
Total Power	≤500W
Marking Range	110mm*110mm/175mm*175mm
Cooling System	Air Cooled
Laser Repetition Rate	20KHz-80KHz (Adjustable)
Equipment Working Environment	Clean or Less Dusty
Min Character	0.2mm*0.2mm
Equipment Operating Temperature	13°C-28°C
Marking Depth	0.01mm-1mm (Determined by material)
Power Requirements	AC220V/50Hz/2A



Features

- Compact and Portable**
 The size of the machine is very small, length and high is 740x620mm, even smaller than a computer host.
- High Quality Laser**
 The working stability is high, then amplitude noise is very low, it can work for a long time, which greatly improves the working efficiency. The life of this laser device is as high as 100,000 hours.
- High Precision**
 All need this high-precision marking machine to achieve, its accuracy can reach 0.002mm, for various complex fine patterns can be carved with it.
- Fast Marking Speed**
 Equipped with a high-level laser scanning system, it can quickly realize pattern marking in a short time, and the speed can reach a considerable 7000mm/s.

Vertical Laser Engraving Machine

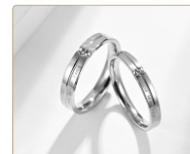
Description

SuperbMelt vertical fiber laser marking model is larger and has a simple appearance, which is suitable for medium and large jewelry processing or manufacturing plants.

The marking range can be adjusted and custom according to customer requirements, and the maximum can reach 110x110mm. Suitable for large pieces of jewelry and some metal work pieces.

Parameter

Model Number	SPB-FLM100
Laser Power	20w/30w/50w/100w
Laser Repetition Frequency	1- 4000KHz
Marking Range	70*70mm/100*100mm (option)
Marking Depth	1~5mm
Marking Speed	≤8000mm/s
Repeatability	+/- 0.002mm
Minimum Line Width	0.01mm
Electro-optic Conversion Rate	30%
Laser Life	about 100,000 hours
Machine Power	500W 3A
Net Weight	95kg
Packing Weight	120kg
Size	L800*W800*H1400mm



Features

- Good Stability&Fast Speed
The laser marking machine adopts Jinhaichuang high-speed scanning galvanometer and wavelength optical focusing field mirror, which has good stability and fast speed.
- Adopt Integrated Design
Small size, low power consumption, long life, high efficiency, maintenance-free, no consumables, air cooling and water cooling.
- Wide Range of Use
Marking of text graphics, QR codes, regular serial numbers, portrait images, etc.

3D Resin Printers

Description

3D resin printer is used for printing jewelry wax molds of castable and non castable materials.

SuperbMelt 3D resin printer subverts many complicated processes in the production process of the traditional manufacturing and processing industry, and directly manufactures complex structures.



Finished Products



Parameter

Model Number	SPB-DLP64	SPB-DLP96	SPB-DLP144
DLP resolution	1280*800	1920*1080	1920*1080
X/Y pixel	50μm	50μm	75μm
Light source	UV LED 405nm Texas Instruments DMD chip	UV LED 405nm Texas Instruments DMD chip	UV LED 405nm Texas Instruments DMD chip
Printing layer thickness	0.025-0.1mm	0.025-0.1mm	0.025-0.1mm
Forming size	64mm*40mm*120mm	96mm*54mm*120mm	144mm*81mm*120mm
Data format	STL/SLC	STL/SLC	STL/SLC
Machine power	240W	260W	300W
Input voltage	110-220VAC 50/60Hz	110-220VAC 50/60Hz	110-220VAC 50/60Hz
Printable Materials	Castable Resin, Ceramic Resin	Castable Resin, Ceramic Resin	Castable Resins, Ceramic Resins, Dental Mould Materials

Jewelry Wax 3D Printers

Description

SuperbMelt white wax 3D printer can achieve 100% ashless combustion, suitable for high-demand precision jewelry design, using Castable 50% Wax Resin is a mixture of wax and photosensitive resin, with similar performance and texture to wax. Due to the high wax content, this machine can be cast directly, and the effect is equivalent to that of wax.

It is more suitable for jewelry styles with large size and smooth and perfect surface. The printed products can be directly used for casting of jewelry, gold, karat gold, platinum, silver copper and other materials.



Parameter

Model Number	SPB-HD96W
DLP resolution	1920*1080
X/Y pixel	50μm
Light source	UV LED 405nm Texas Instruments DMD chip
Printing layer thickness	0.025-0.1mm
Forming size	96mm*54mm*120mm
Data format	STL/SLC
Machine power	350W
Input voltage	110-220VAC 50/60Hz
Printable Materials	Pewter Castable Materials



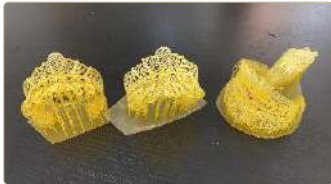
Features

- 100% Lost Wax Casting**
 SuperbMelt 3D wax printers for casting can deliver high resolution and fine detail down to 0.2mm to meet these demanding details.
- Fast Printing Speed**
 Long-term stable performance to meet mass production The Texas DMD control chip and high-end rail module are used to ensure the accurate operation of the equipment and ensure accuracy and stability. Using the new UV light source, the service life of the light source is more than 20,000 hours.
- Efficiency and Ease-of-Use**
 SuperbMelt 3D jewelry printers have a simple machine structure, an integrated computer design, easy operation, one-click printing, and material replacement in less than 2 minutes, all of which bring great convenience to customers.

Jewelry Resin 3D Printer

Description

SuperbMelt vertical 4k resin printer is based on the common desktop 3d printers in the market, with larger printing format and 4k high resolution than most small printers. This means more precise details and higher quality in the finished product. It is very suitable for the production of jewelry, pendants, rings, bracelets and other complex and diverse styles, as well as the customization of dental molds that require high precision.



Parameter

Model Number	SPB-4K192
DLP resolution	3840*2160 (4K)
X/Y pixel	50μm
Light source	UV LED 405nm Texas Instruments DMD chip
Printing layer thickness	0.025-0.1mm
Forming size	192mm*108mm*120mm
Data format	STL/SLC
Machine power	500W
Input voltage	110-220VAC 50/60Hz
Printable Materials	castable resin, ceramic resin, dental mold resin

Features

High Resolution

The use of 4K industrial-grade ultra-high-resolution projection optical engine makes the projected image clearer. Its resolution is 3840×2160, so the printing accuracy is also higher.

Large Format Print Size

The printing layout reaches 192mm*108mm*120mm, and 30-50 models can be formed at a time. Realized mass production, making production more efficient, suitable for medium and large jewelry factories.

Swing Trough

Every time it is completed, when it rises, the trough will also swing at the same time to assist in the separation of photosensitive resin, which can buffer the stripping process, improve stability, and ensure the quality of the finished product.

Remote Monitoring

Equipped with a remote monitoring system, you can clearly understand the printing process and status without standing next to the machine during printing.

Continuous Sheet Rolling Machine

Description

SuperbMelt continuous electric rolling mill for one time production of gold, silver, platinum and palladium sheets for the jewelry industry.

There are 5 to 6 sets of rollers pressed at the same time to achieve the required thickness of the material one time. This is very different from other electric rolling mills. It has obvious advantages in terms of efficiency and labor cost.



Parameter

Model	SPB-LY5D	SPB-LY6D
Power Supply	380V	380V
Power	7.5KW	45KW
Final Shaft Size(D*L)	120*80mm	140*210mm
Largest Thickness	5mm	5mm(Gold)
Thinnest Sheet Thickness	0.5mm (Gold)	0.5mm
Optimum Sheet Width	Within a 30mm	Within a 60mm
Speed	0-18RPM(Adjustable)	0-12m/min
Roll Passes	5 groups	6 groups
Overall Dimensions	1230*680*1250mm	3500*1150*1520mm
Machine Weight	700kg	4500kg



SPB-YP-60P-6

Features

- Multiple Rollers Work at The Same Time**
5-6 sets of rolls press and roll the material together, and it can be formed once in a short time, the efficiency is very high.
- Infrared Sensor**
When the infrared ray detects that there is no material entering, the rolling will stop.
- Remote Feeding**
There is no need to manually feed the sheet like traditional electric rolling mills, so the risk of job injury is avoided, and the remote control operation is more convenient and simple.
- Automatic Winding**
The machine is equipped with an automatic rewinding and unwinding device, which can be done automatically when the material is put into the slot.

Continuous Wire Rolling Machine

Description

SuperbMelt continuous electric wire rolling mill for one time production of gold, silver, platinum and palladium sheets for the jewelry industry. It can pressed at the same time to achieve the required size of the material one time.



Features

Efficient

20 sets of rolls are pressed at the same time to achieve one-time forming, and the wire diameter can reach 6-1.1mm, which can be customized.

No Loss

The material of the roll is of high quality and the surface is smooth, so the wires will not be damaged during pressing, and no loss can be achieved.

Remote Control

The threading is controlled by remote, which makes the operation more convenient and safe.

Automatic Wind&Rewind

High level of automation, can automatically take up the wires, saving human resources.

Parameter

Model number	SPB-20WDM
Type	Continuous Wire Rolling machine
Power source	380V
Power	11kw
Roller Size(D*L mm)	Tungsten Steel 110*80
Max Thickness(mm)	7
Revolving Speed(rpm)	0-75(Adjustable)
Lubricating System	Automatic Lubricating Oil Supply
Wire Rolling Size(mm)	6-1.1mm
Max Rolling Width	60MM
Dimensions(mm)	3300*830*1800
Weight(kg)	2200

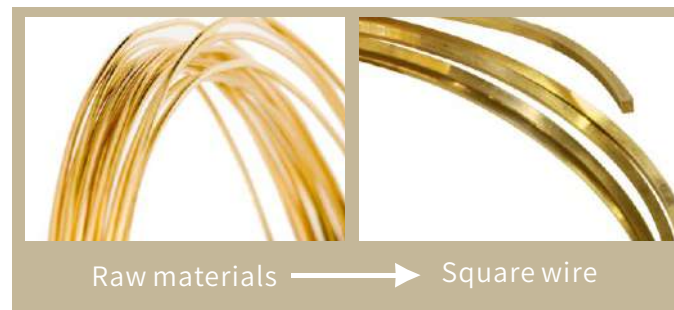
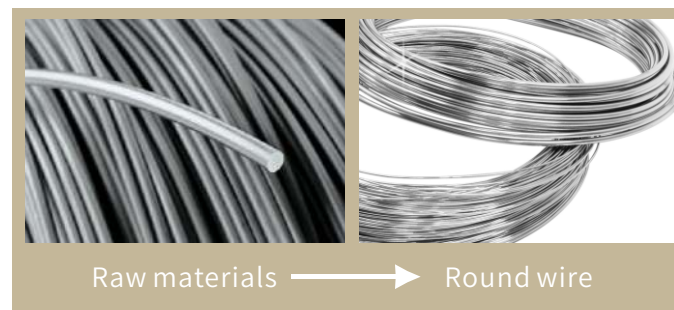
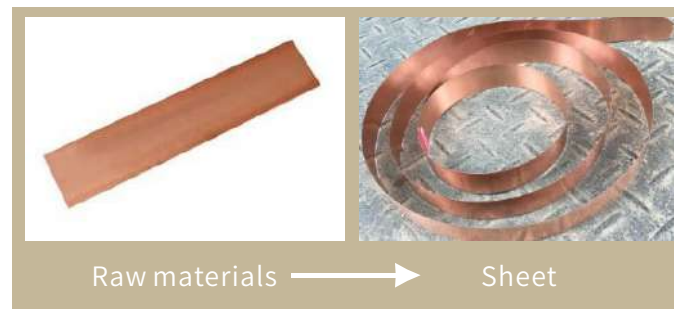
Rolling Machine

Description

SuperbMelt provides mostly various types of rolling machines to meet different width and thickness rolling requirements. They are widely used in semi-finished products of jewelry and gold artworks. High hardness roller material makes the sheet extremely flat and produces uniform thickness. Equipped with emergency stop mound layer and has a good safety protection performance. Roll different precious metals without excessive flash and losses; fast, highly accurate, and automatic fuel filling.

Features

- It is currently made of roll materials with high hardness having the advantages of simple and solid structure, less space demands, low noise, and convenient operation;
- It adopts link gears which are synchronous and can ensure the uniform thickness of process metals and the accuracy of finished products;
- Multiple drive and different drive structures are combined. The speed is moderate and jamming can be prevented;
- The thick and heavy machine body increases the stability of equipment in operation;
- The manufacturing accuracy of equipment parts would be controlled strictly. The spare parts of the machine can be processed according to the accuracy on the drawing. The parts of the same model can be replaced with each other and the repair is fast and convenient;
- Mirror roll tablet machine can roll on the surface of metals to achieve mirror effect;
- Automatic fuel filling and lubricating system; no manual lubricating needed, and it is more personalized.



Parameter

Model number	SPB-YX-5P	SPB-7.5P-S250	SPB-7.5P-S200
Type	5.5P Sheet rolling machine	7.5P Rolling machine (roller 250)	7.5P Rolling machine (roller 200)
Power source (V)	380	380	380
Power (kw)	4	5.5	5.5
Roller size (D * L mm)	105*200	120*250	120*200
Max thickness (mm)	9	11	11
Revolving speed (rpm)	22	22	22
lubricating system	Automatic lubricating oil supply	Automatic lubricating oil supply	Automatic lubricating oil supply
Max rolling width	50	50	50
Wire rolling size(mm)	/	14 - 0.8 (Customized)	14 - 0.8 (Customized)
Dimensions (mm)	530*600*1380	520*620*1470	520*620*1470
Weight (kg)	370	480	480



Parameter

Model number	SPB-YBP-10P	SPB-2YXP-10P	SPB-JM-5.5P	SPB-JM-7.5P
Type	10P Four roller sheet rolling machine	10P Double-head rolling machine	5.5P Tungsten steel sheet rolling machine B	7.5P Tungsten steel sheet rolling machine
Power source (V)	380	380	380	380
Power (kw)	7.5	7.5	4	5.5
Roller size (D * L mm)	Large shaft: 180*180 ; Small shaft: 48*180	120*200	Tungsten steel 110*80	Tungsten steel 120*100
Thickness (mm)	0.008~0.3	0.1~11	0.03~7	0.03~11
Revolving speed (rpm)	0~22 Adjustable speed	0~22 double-speed	12	12
lubricating system	Automatic lubricating oil supply	Automatic lubricating oil supply	Automatic lubricating oil supply	Automatic lubricating oil supply
Max rolling width (mm)	100	50	50	70
Wire rolling size(mm)	/	14~0.8mm (Customized)	/	/
Dimensions (mm)	250*1020*1520	980*650*1450	780*540*1470	820*450*1470
Weight (kg)	820	980	400	400



SPB-YBP-10P



SPB-2YXP-10P



SPB-JM-series

Parameter

Model number	SPB-YP-10PZQ	SPB-YP-12PZQ	SPB-YP-10PZQ-B	SPB-YP-12PZQ-B	SPB-YP-20A	SPB-YP-30A
Type	10P enhanced sheet rolling machine	12P Enhanced sheet rolling machine	10P Automatic sheet rolling machine	12P Automatic sheet rolling machine	20P Sheet rolling machine	30P Sheet rolling machine
Power source (V)	380	380	380	380	380	380
Power (kw)	7.5	9	7.5	9	15	22
Roller size (D * L mm)	140*180	150*210	140*180	150*210	200*300	200*300
Thickness (mm)	0.1~28	0.1~25	0.05~28	0.05~25	30	33
Revolving speed (rpm)	18	16	0~24 Adjustable speed	0~24 Adjustable speed	0~12	0~10
lubricating system	Automatic lubricating oil supply					
Max. width	60	80	60	80	200	200
Dimensions ~ (mm)	1030*715*1350	1130*775*1400	1250*1160*1350	1320*1200*1400	1630*770*1640	1630*770*1640
Weight (kg)	700	980	620	650	1800	2000



SPB-YP-10PZQ



SPB-YP-PZQ-B



SPB-YP-20A/30A

Chain Weaving



Description

SuperbMelt gold chain making machines produces chains with the basic links all same. The metal thread is spiraled before being sectioned during the creation process.

One can produce a variety of different styles in certain models with the combination of programmable link torsion allowing for the creation of new chain designs as these are particularly flexible gold chain making machine.



Features

- Achieved mass produced with the help of the jewelry chain making machines and the designs can be different.
- Can easily make thin hollow and lightweight chains.
- High effective to produce chains of every links and shapes, like cuban chains, cable chains, bismark chains and so on.
- Allows one to produce the dual execution spirals and other kind of chains with various combinations of the long and short links on top of the combination of the linking variables and torsion.

Gold Chain Making Machine

Description

Superbmelt gold chain making machines produces chains with the basic links all same. The metal thread is spiraled before being sectioned during the creation process. One can produce a variety of different styles in certain models with the combination of programmable link torsion allowing for the creation of new chain designs as these are particularly flexible gold chain making machine.

It is quite a versatile machine. The second air blower, the electronic speed regulator with brake, the low voltage lamp, and the chain density sensor is the endowment of this jewelry chain making machine. They are easy to operate and are responsible for the creation of gold, platinum, carat gold, silver, hard alloy chains.



Cable Chain Weaving



Parameter

Type	450 high speed single, double, cross chain making machine
Voltage	Single phase 220v
Power	200W
Wire size	0.19-0.45mm
Speed	100-150
Dimension	420*750*550mm
Weight	75KG

Rope Chain Making Machine

Description

SuperbMelt rope chain making machines can make the snail chains in gold, copper, karat gold, silver as well as copper. They are built rapidly as the rope chain making machine generally comes equipped with the additional motor being fixed with the main divider in terms of assembly with a separately adjustable speed controlled for the rotational speed that is within the ring as well as the bracelet that is lying under the protection of these machines for longer lifespan as well as interchangeable parts here. They can be crafted accordingly in order to cut off the designs on each kind of jewelry named bangles as well as the rings and the pendants.

Superbmelt jewelry chain making machines are able to manufacture myriad kinds of 925 silver, as well as the stainless steel chains having specializing in the manufacture of the jewelry machines and equipment. There are several models available for the rope chain making machine that can help build a robust chain effectively.

Parameter

Type	Rope chain making machine with laser welding
Voltage	Single phase 220v
Power	2000w
Wire size	0.3-0.8mm
Dimension	1000*650*1580mm
Weight	100kg



Rope Chain Making Machine



Parameter

Type	Cuban Chain Making Machine	Box Chain Making Machine
Voltage	Single Phase 220V	Single phase 220V/50HZ
Power	750W	400w
Wire size	0.5-2.5mm	0.8mm-1.5mm
Speed	/	400 rpm
Max. working pressure	/	/
Max. Chain Diameter	/	/
Dimension	600* 700* 1680mm	800*520*128mm
Weight	180KG	152KG



Cuban Chain Making Machine

Box Chain Making Machine

Parameter

Type	Bismark Chain Making Machine	Chain Hammering Machine	Chain Faceting Machine
Voltage	Single phase 220v	3-phase 380V 50Hz	220V/380V 50Hz
Power	500W	500W	1.5KW
Wire size	0.3mm~0.6mm	/	0.2-2mm
Speed	500times/min (Adjustable speed)	1000 rpm/min	0-25000rpm
Max. working pressure	/	15 tons	/
Max. Chain Diameter	/	/	12mm
Dimension	750*800*1600mm	70x75x162 cm	70x85x150 cm
Weight	124KG	610kg	350kg



Bismark Chain Making Machine



Chain Hammering Machine



Chain Faceting Machine

hydraulic stamping press

Description

SuperbMelt 20 ton hydraulic press is specially designed for embossing marks and logos on precious metal bars and other metals. The 20 ton hydraulic pressing machine makes use of hydraulic pressure that generates compressive force with the use of a hydraulic cylinder. The hydraulic press automatically stamps metals at controlled pressure and speed.

SuperbMelt stamping machine works by applying hydraulic pressure to a cylinder that is pressed against the ingot. This leaves texts and logos on the surface of the ingot. The rising and descending speed is about 68mm this makes the stamping process fast and efficient.

At SuperbMelt, our machines are designed to be highly automated and easy to use. With the push of a button, the hydraulic press automatically stamps the ingot with the programmed die. The pressure and speed of the hydraulic press can easily be adjusted to improve production speed. The total motor power is 3.75kw helps to save greatly on production costs.

Parameter

Model number	SPB-HLP5	SPB-20TS	SPB-50TS
Nominal/ton	5	5-20	15-50
Max stroke/mm	100	100-250	300
Opening height/mm	200	350	400
Descending speed/mm	/	68	38
Rising speed/mm	/	68	38
Worktable area/mm	350x260	500*400	600*500
Table height from the ground/mm	850	850	850
Voltage/V	380	380	380
Motor power/kw	2.2	3.75	5.5
Weight/kg	280	660	1200



Logo Stamping



Blanking



Features

- Adopting four-column and three-plate structure, the planar accuracy of the movable plate fish table is high, the four-axis precision linear self-lubricating guide sleeve is controlled, and the vertical accuracy is high.
- Imported high-quality hydraulic components, electrical components, low noise, high performance, stable operation.
- Simple operation, pressure, stroke and closing height can be adjusted by pressing process requirements.
- Two-handed operation, with emergency stop and inch movement function, infrared hand protector, optional three-sided cover, safe and efficient.

Coin Stamping

Description

Superb melt 100 ton hydraulic press is used for a wide range of applications apart from embossing marks on precious metal in the coin minting. The 100 ton hydraulic press is also used for shaping metals, clinching, moulding, blanking, punching, deep drawing and other metal forming operations. The hydraulic press works by exerting compression force against metals placed between dies. The 100 ton hydraulic has a pressing capacity of 100 tons, this means that Superb melt machine press is not only suitable for heavy industrial uses but also for small-scale applications.

Parameter

Parameter		Unit	Quantity		
Rated capacity		Ton	100	300	500
Max. system pressure		Mpa	25	24	25
Max. stroke of working table		mm	110	150	150
Open height		mm	320	380	450
Height of movable working table		mm	960	1080	1185
Upward speed of movable working table		mm/s	150	80	80
Returning speed of movable table		mm/s	140	90	80
Movable working table size	L-R	mm	420	580	710
	F-B	mm	420	540	640
Overall dimension	L-R	mm	920	1200	1440
	F-B	mm	810	1165	1370
	H	mm	1650	1895	2080
Motor power		kw	4kw	7.5	15
Weight (Approx.)		kg	1900	3300	5500



Features

- Allows users to stamp logos, texts and other symbols on precious metal coins and bars. With the hydraulic press machine, branding your products becomes easy for different industries.
- The maximum system pressure is 25mpa, this means that you can easily adjust the stamping pressure to determine the depth and the speed of pressing.
- The speed of the 100 ton hydraulic pressing machine enhances high productivity. Productivity increases by at least 40% which allows demands to be met on time.

Servo Coin Press

Description

Superb melt 300 ton hydraulic press machine is used for processing complex metal shapes in a short time and large volumes. It is suitable for high volume productivity of forging, clinching, moulding, punching and so on. For each of these applications, the press plate and dies may be different but the structure is the same. Superb melt 300 ton hydraulic press has the capacity of processing up to 300 tons of metals.

Superb melt hydraulic press machine works with metals such as titanium, silver, gold, aluminium, copper, iron, tin, tungsten, etc. The stroke of the working table and the system pressure helps to regulate the stamping process. The entire 300 ton pressing machine requires about 4kw to 11kw of energy for an effective stamping process.

Parameter

Parameter		Unit	Quantity		
Rated capacity		Ton	100	300	500
Max. system pressure		Mpa	25	24	25
Max. stroke of working table		mm	110	150	150
Open height		mm	310	400	450
Height of movable working table		mm	800	940	850
Upward speed of movable working table		mm/s	160	210	215
Returning speed of movable table		mm/s	145	210	200
Movable working table size	L-R	mm	430	560	600
	F-B	mm	430	560	560
Overall dimension	L-R	mm	980	1260	1480
	F-B	mm	1150	1340	1520
	H	mm	1930	2340	2300
Motor power		kw	11	16	23
Weight (Approx.)		kg	1500	3620	6700



Features

- Servo motor driven system**
 The product comes with servo motor driven system that is great for different speeds. This feature also ensures that the machine moves stably and that the noise is controlled.
- Energy-saving effect**
 Most users prefer this product due to its excellent energy saving effect. The servo-driven pump technology makes this hydraulic pump one of the best on the market.
- Enhanced Productivity**
 The product relies on servo hydraulic control, and this makes it highly productive. Compared to the CNC pressing machine, with this machine, you will boost the productivity of your company by at least 40%.

Automatic Coin Stamping Machine

Description

SuperbMelt coin stamper machine is a large capacity automated stamping machine that is convenient to use. Once the main switch is flipped, you can choose from the manual mode, semi-automatic mode or automatic mode. The coin stamping machine has automatic features that pick the blank coins, automatically stamps them and pushes the stamped coin from of the die and the next blank coin follows. This process is repeated for as long as possible without affecting the pressure or standard of stamping. This process is completed within seconds which is very suitable for a fast-moving minting industry. The stamping process is highly efficient and reliable for multiple blank coin stamping as the hydraulics does not deform blank coins or ingots.

Parameter

Item		Unit	SPB-AF150T	SPB-AF300T
Rated capacity		Ton	150	300
Max. system pressure		Mpa	20	25
Stroke of movable working table		mm	200	200
Height of movable working table		mm	1130	1180
Open height		mm	300	300
Workbench stroke speed	Approaching	mm/s	110-150	110-150
	Returning	mm/s	100-130	100-130
Movable working table size	L-R between column	mm	560	560
	F-B Rim	mm	600	700
Overall dimension	L-R	mm	1730	1750
	F-B	mm	1694	1694
	H	mm	2521	2611
Motor power		kw	11-4level	15-4level
Weight (Approx.)		kg	4300	5200



20Pcs/min



Features

- The process of stamping with the SuperbMelt coin stamping machine is fully automated where the machine itself arranges, selects, stamps and remove coins during the production process. You also have the opportunity to select other modes of operation like semi-automatic and manual modes.
- The process of stamping is very fast, each coin is stamped and ready in less than 4 seconds. This is particularly suitable for a fast-moving production in a minting company.
- SuperbMelt coin stamping equipment has a counting press that automatically counts stamped coins. You don't have to worry about counting or losing track of counting stamped coins.
- SuperbMelt coin press machine for sale is equipped with a sensor that detects material for finished minting. If the blank material escapes the die, the machine automatically stops.

Automatic Coin Minting Press

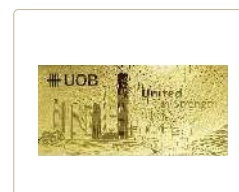
Description

SuperbMelt operator panel has the manual mode, semi-automatic mode and automatic mode that allows users to choose the mode of stamping best suitable for them. This means that irrespective of the level of expertise in coin minting, it can easily be used by anybody. Once the “start” button is pressed, the injector and feeding system picks the coins automatically and stamps them within a seconds. The entire process is fast allowing you to stamp large batches of gold, silver and copper coins and bars within few minutes.

Thereby, saving cost and time of production. The automatic coin minting press has an adjustable pressure controller that allows you to control the pressure of stamping easily. Superbmelt automatic hydraulic coin minting press is easy to maintain, therefore, ensure a long service life and a good return on investment. The stamping dies can easily be removed and replaced for proper cleaning after each use. The pressing machine by Superbmelt is made of high-quality materials that also ensures long-lasting use.

Parameter

Item		Unit	SPB-AH200T	SPB-AH300T	SPB-AH500T
Rated capacity		Ton	200	300	500
Max. system pressure		Mpa	24	24	25
Stroke of movable working table		mm	150	150	150
Height of movable working table		mm	940	940	840
Open height		mm	350	400	450
Workbench stroke speed	Approaching	mm/s	190	210	215
	Returning	mm/s	180	210	200
Movable working table size	L-R between column	mm	520	560	600
	F-B Rim	mm	500	560	560
Overall dimension	L-R	mm	1130	1260	1480
	F-B	mm	1120	1340	1520
	H	mm	2180	2340	2300
Motor power		kw	16	16	23
Weight (Approx.)		kg	2580	3620	6700



Features

- SuperbMelt automatic coin stamping machine has a sensor that is able to detect when there are no more materials for the stamping dies. The sensor is powerful enough to stop the coin stamping machine so that the stamping hydraulics does not hit the empty die.
- The automated coin minting press is easy to maintain. The stamping dies can easily be removed and replaced for cleaning, this practice also contributes to a long machine service life.
- Due to the fast stamping process of the SuperbMelt coin pressing machine, it helps to conserve energy use. Therefore saving you up to 40% of energy.

Single Line Wire Drawing Machine

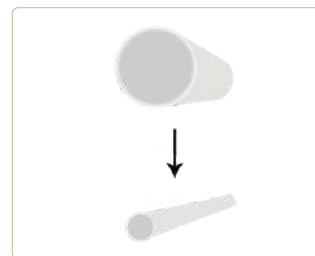


Features

- The wire is drawn through the wire die to obtain a smaller size;
- Smooth and stable operation, no shaking;
- The drawing speed is fast, and the finished product has a cable winding function.

Parameter

Model number	SPB-1WDM	SPB-2WDM
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	5.5 kw	5.5*2 kw
Application	Au, Ag, Cu wire shrinkage	Au, Ag, Cu wire shrinkage
Dies capacity	1 pcs per time	1 pcs per time
Wire diameter range	6mm→0.2mm	6mm→0.2mm
Drawing speed	0-20 m/min	0-20 m/min
Dimension	1400*800*1150mm	1400*800*1150mm
Weight	650 kg	650 kg
Cooling way	Automatic liquid cooling	Automatic liquid cooling



Wire Drawing Machine

Parameter

Model number	SPB-6WDM	SPB-12WDM
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	2.2 kw	4 kw
Application	Au, Ag, Cu wire shrinkage	Au, Ag, Cu wire shrinkage
Dies capacity	6 pcs per time	12 pcs per time
Wire diameter range	2.2mm→0.2mm	1.5mm→0.2mm
Drawing speed	0-50 m/min	0-50 m/min
Dimension	1800*700*1230mm	1800*700*1230mm
Weight	370 kg	390 kg
Cooling way	Automatic liquid cooling	Automatic liquid cooling



Features

- Wire drawing machine draws the thick wire into the thin wire after drawing processing, the wire diameter, roundness, internal microstructure, surface roughness, and straightening degree achieve the required standards for raw materials re-processing
- The machine has high working efficiency. Line wheel is made precisely of imported materials and the carburization on its wheel surface improves abrasive resistance;
- The motor adopts step-less speed modulation design and is equipped with automatic winding displacement and rewinding machine;
- The whole machine is equipped with an automatic cooling system.



Tube Drawing Machine

Parameter

Model Number	SPB-TDM3	SPB-TDM4
Power source	380V	380V
Power	3kw	4kw
Actual tube length	3m	4m
Air switch	≥20A	≥20A
Max tube diameter	10mm	10MM
Applicable metal	Gold, silver, copper, karat gold, alloy, etc.	Gold, silver, copper, karat gold, alloy, etc.
Max wire diameter	6mm(silver)	6mm(silver)
Operation mode	Linear guide slide	Linear guide slide
Clamping method	Automatic pneumatic clamp	Automatic pneumatic clamp
Frequency	0-8m/min	0-8m/min
way to stop	Travel switch control automatic stop	Travel switch control automatic stop
Dimensions	3400*550*900mm	6300*550*900mm
weight	480kg	600kg

Process



Features

- Suitable for diameter reduction and wall drawing of tubular rods;
- This machine is equipped with automatic speed regulation, and automatic return function;
- Using the start-up clamping mechanism, the pulling and translation are stable;
- The finished product has a small error in the degree of drawing and a high finish.

Coil Machines

Features

- Mainly wind the hollow wire and solid wire into a spring shape;
- Suitable for all kinds of metal coils with plastic deformation;
- Compact structure, with space, no noise;
- This machine can make finished products with uniform roundness, and can be automatically wound.



Parameter

Model number	SPB-YC02
Power	400W
Voltage	220V, single-phase
Rotating speed	Adjustable speed 0-50r/min
Coil diameter	1~8mm
Dimensions	700*500*1100mm
Weight	71kg
Application	less elastic coffin ; wire coil forming



Tube Making Machine

Description

The hollow tube forming machines from SuperbMelt are created to make it simple and effective for you to produce tubes of all different shapes and sizes. SuperbMelt hollow tube forming machines specialize in creating various metal hollow tubes, including hollow gold, silver, copper, and aluminum tubes.

Metal tubing may be produced using SuperbMelt's tubing equipment for a variety of uses, such as manufacturing, construction, and jewelry. Our equipment is made to last, with long-lasting components and meticulous engineering to guarantee reliable results each and every time.

Parameter

Model number	SPB-DHW-1	SPB-DHW-2
Power source	3 phase 220V, 50/60Hz	3 phase 220V, 50/60Hz
Power	1.5w	4kw
Diameter	range 4 to 10mm	3.2mm(Customized)
Thickness	0.25-0.45mm	0.32-0.5mm(Customized)
Efficiency	1000-2000MM/MIN	1000-2000mm/min
Operating way	By switch control	By switch control
Dimension	1450*800*1500mm	1450*800*1600mm
Weight	400kg	520kg



Hollow Ball Making Machine

Description

This equipment is widely used in jewelry, hardware industry, and can automatically hammer 2mm to 14mm balls, olive balls, abacus balls, and special-shaped balls. When the equipment is working, it can automatically complete the process of feeding, stamping, and so on. It is convenient and practical.

Features

- Making balls is fast and efficient; maximum, can produce 120 pieces per minute;
- Mechanical feeding to ensure the precision of each feeding;
- Shaft-type transmission, each ball presses 6 times, making the bead shape evenly;
- Whether the tube is straight or of any length, it can be processed directly;
- All the materials used are heat-treated;
- Low noise, no waste gas, no pollution, wear less, and the failure rate is minimal;
- Avoiding the line eye, the entrance is convenient.

Parameter

Model number	SPB-7BM	SPB-9BM	SPB-14BM
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	2.2 kw	3.7 kw	3.7 kw
Applicable material	Special for K gold	Special for K gold	Gold, K gold, silver, copper
Application	Jewelry ball making	Jewelry ball making	Jewelry ball making
Ball size	2-7mm	2-9mm	2-14mm
Hole size	2mm: 0~0.8mm; 6mm: 0~2.7mm	2mm: 0~0.8mm; 14mm: 0~5.2mm	2mm: 0~0.8mm; 14mm: 0~5.2mm
Material thickness	0.15~0.23 mm	0.08~0.45mm	0.15~0.45mm
Max Speed	120 pcs/min	120 pcs/min	50 pcs/min
Dimension	880*680*1480mm	790*900*1180mm	890*1000*1380mm
Weight	250kg	480kg	480kg



Hollow Ball Splitting Machine/Grinding Machine

Description

The hollow ball splitting machine is a special tool for separating a whole string of hollow beads in jewelry making.



Hollow Ball Splitting Machine

Parameter

Machine Name	Hollow Ball Splitting Machine
Cuting diameter	1.5-8mm
Appllication	different shape
Control System	PLC control
Funtion	Automatic stop after no material

Description

Jewelry ball grinding machines are specialized machines used in the manufacturing process of jewelry to produce perfectly round balls that can be used as decorative elements or as components of jewelry pieces.



Hollow Ball Grinding Machine

Parameter

Model number	SPB-BGM15
Power	1.5kW
Voltage	Three phrase 380V
Application	Ball shape Grinding
Rotation speed	280 r/min Weight: 140kg
Weight	140kg
Dimension	450*450*1200mm

Ball Diamond Cutting Machine

Description

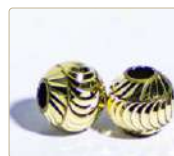
SuperbMelt ball diamond cutting machine is designed for cutting precious metals hollow balls get diamond shiny effect. The diamond cutting machine uses diamond technology that cuts the metal balls automatically using a 360-degree rotation.



Single



Double



Parameter

Model number	SPB-BC80	SPB-DBC85
Voltage	220 V	220V
Total power	4 kw	6.5 kw
Spindle speed	7500r/min	24000r/min
Processing specifications	Ø3.0- Ø10.0mm (round beads/olive)	Ø2.5-Ø10.0mm (round beads/olive)
Work efficiency	1-2 knives/S	1-2 knives/S
Appearance size	800(L)×1450(W)×1800(H) mm	950(L)×900(W)×1700(H) mm
Machine weight	720 kg	1085 kg
Operation mode	Touch screen	Touch Screen

Features

- Has over 10,000 designs that you can select from its software. This allows you to create as many designs as possible to meet your ball production needs.
- Equipped with an LCD control unit that makes it easy to set parameters for an automated ball making process. This allows you to control the process from start to finish.
- The precision and speed of cutting are high. This means that all the balls are cut accurately with no errors.
- Balls produced with SuperbMelt automated ball cutting machines have a smooth and shiny appearance.

Bracelet Making Machine

Parameter

Model number	SPB-RFM	SPB-BFM
Power source	Single phase 220V, 50/60Hz	Single phase 220V, 50/60Hz
Power	250 W	400W
Application	Ring forming	Bangle forming
Rotation rate	0~150 rpm	0~150 rpm
Forming diameter	Φ15~25 mm	Φ35~75 mm
Weight	36 kg	42kg
Dimension	420*310*400mm	520*310*400mm

Features

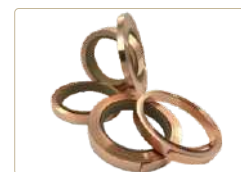
- Forming rings and bangle rapidly instead of traditional way;
- Can carry 4-8 products and greatly improve productivity;
- The product adopts variable frequency speed regulations, has higher efficiency, and can save more energy;
- Comparing speed regulation by gear, step less speed regulation can be achieved and the accuracy is higher;
- Compared with DC speed regulation, the whole reliability is higher and the maintenance costs are low;
- Low noise, similar to silent mode without load.



Iron Sheet Cutting Machine

Features

- This machine equips with the Multi-knife shearing unit which is applicable to trim various metal plates with customized width. The shearing knife is made of top quality steel which proceeds 20 steps of heat treatment to realize great hardness and sharpness. It could cut various metals like K-gold, gold, silver, copper, aluminum and so on;
- There are many benefits like adjustable width, stable transmission, low noise, high-level automation, simple and reliable operation.



Parameter

Model number	SPB-SSM
Power source	Single phase 220V, 50/60Hz
Power	0.5kw
Slice width	6-100mm
Slice thickness	0.05-0.6mm
Speed	0-140 rpm (Frequency Control)
Dimension	600*400*1030 (L*W*H mm)
Weight	150kg



Mesh Belt Furnace

Description

The Superbmelts mesh belt furnace is used for heating metal workpieces above its recrystallization temperature and then cooling once the workpiece has been maintained at required degree celsius for a suitable amount of time.

There are three stages in the mesh belt furnace; annealing, recrystallization, and grain growth under ammonia gas. The mesh belt furnace is an annealing oven used for chain welding, metal annealing, metal tempering, jewelry annealing. In the coin minting line, the mesh belt furnace to heat precious coins or bars to make them soft and ready for acid washing.

The mesh belt furnace is used for annealing K-gold and silver link parts, and welding of chains. The mesh belt furnace improves the machinability, mechanical and electrical properties of materials.



Parameter

Model number	SPB-AWF3.2	SPB-AWF4	SPB-AWF5
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	13kw	15kw	18kw
Max. temperature	950°C	950°C	950°C
Speed	Stepless speed regulation	Stepless speed regulation	Stepless speed regulation
Cooling way	Water cooling	Water cooling	Water cooling
Used gas	Ammonia	Ammonia	Ammonia
Working slot	W30*H70mm	W30*H70mm	W30*H70mm
network bandwidth	60mm	60mm	70mm
Dimension	3000*600*1500 (W*L*H mm)	4000*600*1300(W*L*H mm)	5000*600*1300(W*L*H mm)

Annealing Furnace



Features

- This machine is specialized for the heat treatment of jewelry, hardware, gold-silver-copper plate stamping parts;
- The whole heating process is completed under the gas protection to make sure that the tempering surface won't oxidize, change color or experience losses, and to meet common processing standards;
- The machine is equipped with high performance ammonia decomposition hydrogen system, PID intelligent temperature control, 24 hours timer switch, and various metals could be quenched at the set temperature.

Parameter

Model number	SPB-AWF2
Power source	3 phase 380V, 50/60Hz
Power	9kw
Ammonia decomposition Power	5kw
Heating time	40-60 minutes
Max. temperature	1100°C
Used gas	Ammonia gas
Working slot width	200*100*750 (W*L*H mm)
Dimension	850*1400*1600mm (W*L*H mm)
Weight	135kg



High Resolution Jewelry 3D Scanner

Description

SuperbMelt Jewelry 3D scanner is the perfect solution for anyone looking to capture high-precision data with ease. Our scanner records and stores beautiful 3D jewelry data, saving time in jewelry design, modification and production. By digitizing the jewelry industry with our cutting-edge technology, we can help promote innovation and upgrade the quality of jewelry products.

We use the latest technology to digitize the physical product, so as to help jewelers realize the digital storage of jewelry, help enterprises quickly respond to customer customization needs, and reduce design time costs.

Parameter

Model No.	SPB-5DS
Power source	AC100-220V, 50Hz
Camera	2*6.3MP
Light source	Blue LED
File format	STL,OBJ
Interface	2*USB3.0
Scan speed	≤ 3s
Scan accuracy	≤ 0.01mm
Single capture range	100×80×80mm
Supported OS	Win 7/10
Dimensions	330×317×456mm
Net Weight	15kg



Features

- Good Compatibility**
 One click to generate standard STL 3D format, compatible with various CAD design software and 3D printers.
- High Quality Data**
 The machine uses industrial-grade blue light, which can achieve strong anti-interference, ensure the accuracy of scanning results.
- High Precision**
 The 3D scanner adopts a 16mm 5MP standard optical measurement lens module, which has high precision and achieves intelligent fusion, and the single scanning accuracy can reach 0.01mm.
- Use Structured Blue Light**
 With contrast enhancers, this light is more professional when scanning complex geometry and exporting fantastic details. The service life of the light source is more than 30000h.

Dot Peen Marking Machine

Description

SuperbMelt dot peen marking machine is software-controlled marking peen that moves according to a specific guide rail in the X, Y two-dimensional plane. The marking peen performs high-frequency impact motion under the action of electric power, thereby engraving a mark with a certain depth on your product surface.

Superbmelt desktop metal marking machine is integrated design, extremely stable and easy to use, a good engraving depth, high speed direct parts marking, marking result clear, support some uneven surface marking.

The dot peen marking machine (SPB-DE) is mainly used for metal parts, cars and motorcycle parts, instrumentation, machinery, metal tag engraving, and other industries small and medium parts engraving and marking.

Parameter

Machine Name	Electric Dot Peen Marking Machine
Max Speed	40~50mm/s
Marking depth	0.01mm~0.5mm
Marking area	140mm x 90mm
Touch screen size	5 inch*7inch (100higher)
Lifting height	0~300mm
Rated power	125W
Power source	AC100V~240V/50HZ/60HZ
Control system	Integrated with touch screen and software
Package size	500*340*770mm
G.W	62kg



Features

- Integrated industrial 5-inch touch screen with software for increased machine stability and ease of operation.
- SuperbMelt dot peen marking machine series adopt HEF technology, which can support some uneven surface marking.
- This device does not need to be connected to a computer or to an air compressor, greatly reducing your later use costs.
- The equipment complies with the EMC electromagnetic compatibility specification and has an independent EMC processing module to filter the power system interference effectively. It can let the electrical system runs more stable.
- Powerful software can mark any characters, numbers, logo, vin code, 2D datamatrix code, graphic outline, variable data and so on.

Coin Rimming Machine

Description

The coin rimming machine is used for rolling the edges of various sizes of gold, silver, copper, platinum and other coin blanks before pressing coins. The machine forms an arc with a uniform diameter by extruding and rolling. The use of this step can well avoid the generation of gold coin edge capes and burrs, thereby saving subsequent processing steps and making the finished product smoother.

SuperbMelt has developed semi-automatic and fully automatic styles for manufacturers with different output and sizes. The fully automatic output machine has higher efficiency and is suitable for medium and large coin making factory, while the semi-automatic is suitable for smaller factories, which can greatly reduce costs while saving production time.

Parameter

Machine Type	Semi-auto Coin Rimming Machine
Model	SPB-CER3
Voltage	AC220V/50HZ
Power	0.4kw
Mold Diameter	Φ40mm
Product Size	Customizable
Molding Speed	0-12 pcs/min adjustable
Feeding Method	manual feeding
Weight	50kg
Size	L600×W560×H450 mm



Features

- Compact**
Semi-automatic coin reeding machines are small and do not occupy factory locations, which can save a lot of space.
- Custom Edge**
The edge shape can be customized, and the edge making of other shapes can be realized by changing the mold.
- Low Cost**
Cost-effective, suitable for small and medium-sized coin factories or large factories with more staffing.
- Fine Workmanship**
Semi-automatic edge rolling machine is manually discharged, and the workmanship can be more refined. It is suitable for precious metal coin making factories.

Full-automatic Rimming Machine

Features

High Efficient

The machine adopts full automatic operation, including feeding device, rolling disc, etc. Only the coin blank needs to be put into the feeding barrel, and the machine can run the whole process by itself after setting the speed and time, which saves time and labor.

Multiple Sizes

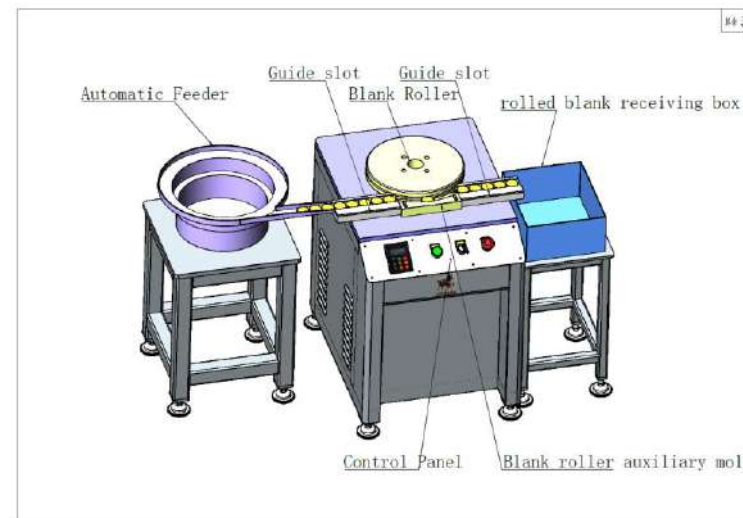
One disc of the fully automated device can customize three sizes of the track, which means a machine can roll gold coins with three diameter sizes. By adjusting the auxiliary mould, the size of the arc angle of the finished product can be changed, so that the whole mould does not need to be replaced, and the use is more convenient.

Fast

The fully automatic edging machine can achieve one step in finish. When the coins roll over, the trimming can be completed, and there is no need to roll repeatedly. Therefore, it is faster, and it only takes 1 second for each coin to complete the edging.

Automatic Feeding Device

The equipment cooperates with the automatic frequency modulation vibration disc to realize automatic feeding and glue spraying treatment on the surface of the vibration disc to avoid surface scratches.



Model number	SPB-ACER3
Voltage	AC220V/50HZ
Power	1.5kw
Roller diameter	Φ39mm
Product size	customizable
Molding speed	80-100 pcs/min adjustable
Feeding method	automatic feeding
Discharge method	automatic unloading
Automatic feeder vibration tumbler diameter	400mm
Weight	100KG
Size	L1350×W670×H720mm

Automatic Wax Injector Machine

Description

The automatic wax injector machine is used to make various types of jewelry wax molds, such as bracelets, rings, pendants, earrings, etc., also the mold of clocks and watches can be made. It can be directly used to cast gold, silver, copper, platinum and other materials.

It can be directly used to cast gold, silver, copper, platinum and other materials. As well as be made into a style that can be set with diamonds, and can be used with a wax setting machine to achieve rapid mass production.

Parameter

Machine Name	Automatic Wax Injector Machine
Dimension size (L*W*H)	W690*H790*510mm
Packing size of wooden case	L1500*W720*H1460mm
N.w	163kg
G.w	193kg
Power supply	AC220V 50/60Hz
Air pressure	0.45-0.65 Mpa
Power	1100W
Vacuum	±0.06~0.07
Mould size(L*W*H)	116*116*96mm
Waxtank capacity	9kg
Temp Accuracy	±0.2°C
Temperature range	40°C~90°C
Vacuum time range	0.5-8s
mould pressure range	0.5kg-2.5kg
Wax perssure range	0.3kg-2.5kg
Wax time range	0.5s-10s
Wax precision	1‰
Wax time	10S



Features

- Vacuum Melting Wax**
The wax tank adopts vacuum technology, which can melt the wax particles more fully and avoid the generation of air bubbles, thus ensuring the integrity and precision of the finished product.
- Temperature Control System**
The components of the automatic wax injector machine are all imported brands, equipped with a three-level digital wax temperature control system, and the temperature control accuracy can reach ±0.2 degrees.
- Large Capacity**
The wax tank has a capacity of 9kg, twice that of traditional wax injection. Therefore, frequent opening of the cover and waxing can be avoided, and wax models of different sizes and styles can be mass-produced at one time.

Chiller

Features

- The air cooling chiller is ideal for cooling induction furnace and casting machine;
- This chiller uses pure water. In the running process, the water circulation in the machine could avoid water pollution. It can work continuously and steadily for a long time;
- The machine does not need to change water frequently, about once a month. It highly reduces the trouble of manual water exchange operation;
- Perfect safe protection system and failure electronic signal assures that the unit operates without damage and run stably;
- Easy installation: All units have been completed and adjusted well, including frozen oil cooling added; Users can directly put it into use by connecting the pipe and circuits, saving debugging time.



Parameter

Model number	SPB-3AC	SPB-5AC	SPB-8AC	SPB-10AC	SPB-15AC	SPB-20AC
Cooling capacity	8.99KW (7742kcal/h 50hz)	13.9KW (11990kcal/h 50hz)	21.8KW (18748kcal/h 50hz)	28.1KW (24089kcal/h 50hz)	44.15KW (37965kcal/h 50hz)	59.05KW (50805kcal/h 50hz)
Compressor power	2.25KW(3HP)	3.75KW (5HP)	6KW (8HP)	7.5KW (10HP)	11.25KW (15HP)	15KW (20HP)
Pump power	0.37KW	0.75KW	0.75KW (Vertical pipe pump)	1.1KW (Vertical pipe pump)	1.5KW (Vertical pipe pump)	1.5KW (Vertical pipe pump)
Water tank capacity	40L	50L	110L	180L	290L	290L
Dimensions	1200*520*1200mm	1250*520*1260mm	1330*725*1445mm	1650*720*1500mm	1750*800*1650mm	1850*800*1750mm
Weight	160KG	180KG	280KG	350KG	600KG	700KG

Crucible

Features

- SuperbMelt selected quartz fused quartz as main raw materials, mainly used for melting platinum, gold and other high temperature alloy, high product purity, corrosion resistance, high strength, crushing strength more than 70MPa, high thermal shock resistance.
- SuperbMelt graphite crucible adopts special high purity, high strength and high density graphite material, and its service life is 2 times of ordinary materials.
- It also has the following characteristics:
 - Corrosion resistance, good impact resistance, high thermal stability;
 - Good thermal conductivity: it can greatly shorten the smelting time, save energy;
 - Less than 300pp ash, to ensure that precious metals in smelting is not contaminated.



Continuous casting machine crucible set

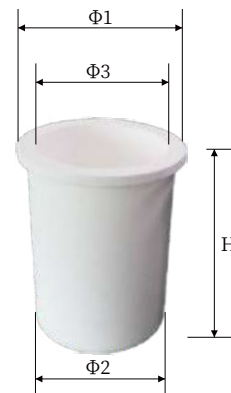


Jewelry vacuum pressurized casting machine crucible set



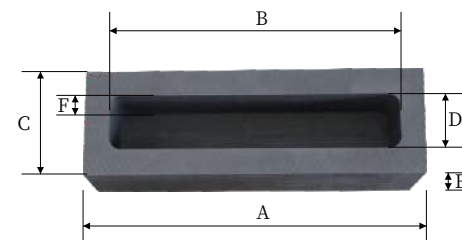
Vacuum bullion casting machine mold

Name	Φ1	Φ2	Φ3	H	Weight
1KG Graphite Crucible	58	46.5	35	88	170
2KG Graphite Crucible	68	57	43	108	280
2.5KG Graphite Crucible	68	58	43.5	120	310
3KG Graphite Crucible	72	66	51	110	390
4KG Graphite Crucible	85	77	60	130	380
5KG Graphite Crucible	100	88	69	132	680
5.5KG Graphite Crucible	104	92	69	155	860
6KG Graphite Crucible	112	100	79	178	1050
8KG Graphite Crucible	125	112	90	160	1000
12KG Graphite Crucible	150	134	100	210	1600
16KG Graphite Crucible	160	138	110	220	2000
25KG Graphite Crucible	165	165	135	220	1600
30KG Graphite Crucible	215	215	175	250	4700



Name	Φ1	Φ2	Φ3	H	Weight
1KG Quartz Coat	69	57	49	87	164
2KG Quartz Coat	81	70	60	110	275
2.5KG Quartz Coat	79	69	59	127.5	320
3KG Quartz Coat	82	78	68	110	335
4KG Quartz Coat	104	82	92	137	370
5KG Quartz Coat	118	100	89	135	700
5.5KG Quartz Coat	119	107	94	152	600
6KG Quartz Coat	125	111	100	175	725
8KG Quartz Coat	140	131	114	179	920
12KG Quartz Coat	155	146	133.5	207	1654
16KG Quartz Coat	175	162	145	212	1800
25KG Quartz Coat	190	190	165	230	1500
30KG Quartz Coat	243	243	224	260	4530

Name	Φ1	Φ2	Φ3	H	Weight
650g Platinum Melting Cup	46	30	39	64	80
700g Platinum Melting Cup	48	36	48	89	137
1kg Platinum Melting Cup	62	46	59	99	305
1kg Platinum Melting 3-mouth Cup	43	47	62	102	300
2kg Platinum Melting Cup	86	59	74	118	478
2kg Platinum Melting 3-mouth Cup	80	56	72	114	400
3g Platinum Melting Cup	88	64	80	126	498
4kg Platinum Melting Cup	90	64	86	149	951
6kg Platinum Melting Cup	112	90	118	175	2210
10kg Platinum Melting Cup	160	110	128	205	3402



Name	Model	Size (mm)					
		A	B	C	D	E	F
1kg Graphite cuvette	GVC-1000-MF	135	115	42	22	32	22
2kg Graphite cuvette	GVC-2000-MF	160	140	48	28	38	28
3kg Graphite cuvette	GVC-3000-MF	175	155	52	32	42	32

Gold Coin Packing Machine

Description

Gold coin packaging is the last important process in the sale of gold coins and bars, and the gold coin packaging machine plays a big role in this link. It not only displays supplier information and product specifications clearly, but also prevents wear and tear during transportation.

In the production and processing industries such as gold, silver coins and bars, the protective panel of the machine can reduce the safety hazards of employees during operation. The fully automatic machine greatly increases the production and reduces labor input.

SuperbMelt is committed to precious metal processing. In the production of gold coins and gold bars, we have a professional production line experience and equipment research and development team.

Parameter

Model	SPB-8KWRS
Power	8KW
Oscillation Tube	7T69RB
Max Pressure	750kg
Electrode Stroke	150mm
Electrode Size	250*350mm
Stress Mode	Pneumatic
Input Voltage	50/60HZ Ac380 3P
Frequency	27.12MHZ



Features

- Single and Double Operation Possible**
 Double-station can realize multi-employee operation, improve work efficiency, and manual turntable can ensure accurate position.
- Equipped with Safety Protection**
 Gold coin packing machine is equipped with a high-sensitivity device to prevent sparks, it can effectively protect the gold coin packaging mold.
- A Variety of Packaging Processes**
 One machine can realize a variety of packaging processes, and can do welding or edge tearing according to the customer's packaging design. It can also be changed to a pressurized cylinder to make a synchronous edge trimming process.

Coin Die

Description

As a coin die maker, we design your own coins with highly automated equipment to help you achieve fast and accurate die customization.

Coin dies are important stamping tools in the production of gold, silver, copper, zinc or other types of metal coins. Various customized logos, texts and shapes are embossed on coin dies which will in turn appear on both sides of the metal coins.



Jewelry Die

Description

Jewelry dies are specialized tools used in the jewelry manufacturing process.

They are made of hard materials such as steel and tungsten steel, and metal like gold, silver, copper and other materials are cut and formed into specific shapes and sizes during the hydraulic press process.

