BITSUN

JEWELRY MACHINERY

Bitsun is a leading manufacturer of high-precision jewelry machinery, dedicated to providing advanced solutions for gold, silver, and precious metal processing. From melting and casting to polishing, laser engraving, and coin minting, Bitsun offers a complete range of innovative equipment designed for efficiency, accuracy, and reliability. Combining modern technology with professional craftsmanship, Bitsun ensures every piece of jewelry is created with perfection. Trusted by global jewelers and manufacturers, Bitsun continues to deliver excellence through superior engineering and long-lasting performance — making it the trusted partner in every stage of jewelry production.

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MELTING

CASTING FURNACE

BITSUN

TYPE BTS-CF-DH1/DH2

The Bitsun Casting Furnace is designed for small to medium-scale gold and jewelry production. With a melting capacity of 1–2 kg, it quickly reaches a maximum temperature of 1600°C, ensuring efficient melting for gold, silver, copper, and aluminum. Built with advanced temperature control and energy-efficient heating elements, this compact furnace guarantees stable performance and uniform metal purity. It's perfect for gold refining, jewelry recycling, and metal testing laboratories. The durable design and precise digital display make operation safe and user-friendly. Whether for professional jewelers or small workshops, the Bitsun Casting Furnace delivers reliability, precision, and speed for all your metal melting needs.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model Number	BTS-CF-DH1	BTS-CF-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*330 mm	520*400*330 mm
Weight	21 kg	22 kg
Heating Technology	Induction Heating	Induction Heating
Cooling Way	Water Cooling	Water Cooling

MELTING

CASTING FURNACE

TYPE BTS-CF-H1/H2

The Bitsun Casting Furnace is designed for small to medium-scale gold and jewelry production. With a melting capacity of 1–2 kg, it quickly reaches a maximum temperature of 1600°C, ensuring efficient melting for gold, silver, copper, and aluminum. Built with advanced temperature control and energy-efficient heating elements, this compact furnace guarantees stable performance and uniform metal purity. It's perfect for gold refining, jewelry recycling, and metal testing laboratories. The durable design and precise digital display make operation safe and user-friendly. Whether for professional jewelers or small workshops, the Bitsun Casting Furnace delivers reliability, precision, and speed for all your metal melting needs.

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.

BITSUN

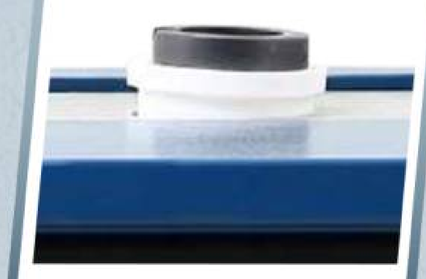
Durability & **Reliability**

High Precision **Technology**

User-Friendly **Operation**

Protective board
Fire and high temperature resistance

Dater inlet and outlet
Connect tap water to cool directly



Durable crucible
Save cost and increase service life

Control panel
Convenient operation, Multi-protection warning light

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

SPECIFICATION		
Model Number	BTS-CF-H1	BTS-CF-H2
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, 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

MELTING

METAL MELTING FURNACE

BITSUN

TYPE BTS-MMF-B5

The Bitsun Metal Melting Furnace is engineered for efficient and consistent melting of various metals, including gold, silver, copper, aluminum, and brass. Designed for both jewelry workshops and industrial applications, it reaches a maximum temperature of 1600°C with rapid heating and precise digital temperature control. The furnace ensures uniform melting, excellent thermal stability, and energy-efficient performance. Its compact structure and durable insulation make it safe and easy to operate, even in continuous use. Ideal for metal refining, alloy preparation, and casting processes, the Bitsun Metal Melting Furnace delivers professional-grade results with outstanding reliability and precision, making it an essential tool for modern metalworking environments.

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model Number	BTS-MMF-B5
Power Source	3 phase 380V, 50/60Hz
Power	15 kw
Applicable Metal	Gold, Silver, Copper, Brass and their alloys
Melting Time	4 minutes
Max Capacity	Gold: 10 kg; Silver: 5 kg
Max Temperature	1800°C
Temperature Control K-type	Optional
Dimension	680*500*1180 mm
Weight	92 kg
Heating Technology	IGBT induction heating
Water Pump	Equipped
Cooling Way	Water cooling

MELTING

METAL MELTING FURNACE

BITSUN

TYPE BTS-MMF-H5

The Bitsun Metal Melting Furnace is engineered for efficient and consistent melting of various metals, including gold, silver, copper, aluminum, and brass. Designed for both jewelry workshops and industrial applications, it reaches a maximum temperature of 1600°C with rapid heating and precise digital temperature control. The furnace ensures uniform melting, excellent thermal stability, and energy-efficient performance. Its compact structure and durable insulation make it safe and easy to operate, even in continuous use. Ideal for metal refining, alloy preparation, and casting processes, the Bitsun Metal Melting Furnace delivers professional-grade results with outstanding reliability and precision, making it an essential tool for modern metalworking environments.

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model Number	BTS-MMF-B5
Power Source	3 phase 380V, 50/60Hz
Power	15 kw
Applicable Metal	Gold, Silver, Copper, Brass and their alloys
Melting Time	4 minutes
Max Capacity	Gold: 10 kg; Silver: 5 kg
Max Temperature	1800°C
Temperature Control K-type	Optional
Dimension	680*500*1180 mm
Weight	92 kg
Heating Technology	IGBT induction heating
Water Pump	Equipped
Cooling Way	Water cooling

MELTING

INDUCTION MELTING FURNACE

BITSUN

TYPE BTS-IMF-TB5

The Bitsun Induction Melting Furnace delivers exceptional performance with a maximum temperature of 1800°C and a power rating of 15kW. Using advanced induction technology, it melts up to 4kg of platinum, 12kg of gold, or 6kg of silver within 2–5 minutes. This ultra-fast heating system ensures efficient metal processing, ideal for jewelry foundries, gold refining, and industrial applications. Its precise temperature control guarantees uniform melting quality and reduced material loss. Built with high-efficiency coils and durable insulation, the Bitsun furnace enhances productivity and profitability. Designed for continuous use, it combines speed, safety, and precision, making it an essential tool for modern metalworking operations.

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model Number	BTS-IMF-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	6 kg Silver/12 kg gold (customized)
Max Temperature	1800°C
Dimension	740*500*1360 mm
Weight	95 kg
Heating Technology	IGBT induction heating
Water Pump	Equipped
Cooling Way	Water cooling

MELTING

GOLD SMELTING FURNACE

TYPE BTS-GSF-TB25/TB35

The Bitsun Gold Smelting Furnace is built for high-capacity metal melting with advanced induction technology. Operating at 25–35kW, it efficiently melts 20–30kg of non-ferrous metals such as gold, silver, copper, and aluminum within 6–8 minutes, reaching temperatures up to 1800°C. The split induction design allows easy tilting, ensuring smooth and safe pouring of molten metal without splashing or spillage. With durable construction, precise temperature control, and energy-efficient performance, the Bitsun Gold Smelting Furnace is ideal for refining plants, jewelry workshops, and metal casting facilities, delivering speed, safety, and superior melting quality in every operation.

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

Tilting type
To pull the controller when the melting is compeled,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

SPECIFICATION		
Model Number	BTS-GSF-TB25	BTS-GSF-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 minutes	6-8 minutes
Max Capacity	24K Gold: 20.0 kg; Silver: 10.0 kg	24K Gold: 30.0 kg; 925 Silver: 15.0 kg
Max Temperature	1800°C	1800°C
Power Size	690*500*1210 mm	690*500*1210 mm
Furnace Size	650*520*1800 mm	650*520*1800 mm
Weight	200 kg	215 kg
Heating Technology	IGBT induction heating	IGBT induction heating
Water Pump	Build-in	Build-in
Cooling Way	Water cooling	Water cooling

MELTING

PLATINUM FURNACE

BITSUN

TYPE BTS-PF-B1/B2/B4

The Bitsun Platinum Furnace is a high-performance melting system engineered for platinum, gold, palladium, and their alloys. Designed with advanced induction technology, it reaches temperatures up to 2600°C, exceeding the platinum melting point by 900°C. Capable of melting 1–4 kg of metal in under 5 minutes, it efficiently handles materials in solid, scrap, dust, or ingot form. Ideal for scrap refineries, jewelry recycling, and metal research labs, the Bitsun Platinum Furnace ensures rapid melting, precise temperature control, and minimal material loss. Built for durability and speed, it is the perfect solution to enhance productivity and efficiency in professional metal refining operations.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION			
Model Number	BTS-PF-B1	BTS-PF-B2	BTS-PF-B4
Power Source	3 phase 380V ±10%, 50/60Hz	3 phase 380V, 50/60Hz	3phase 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℃	2600℃	2600℃
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

MELTING

PLATINUM FURNACE

BITSUN

TYPE BTS-PF-TB2/TB4

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model Number	BTS-PF-TB2	BTS-PF-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	2 kg Platinum	4 kg Platinum
Max Temperature	2600 ℃	2600 ℃
Dimension	740*500*1360 mm	740*500*1360 mm
Weight	95 kg	100 kg
Heating Technology	IGBT induction heating	IGBT induction heating
Water Pump	Equipped	Equipped
Cooling Way	Water cooling	Water cooling

MELTING

INDUCTION METAL MELTING FURNACE

BITSUN

TYPE BTS-IMMF SERIES

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-uprate, powerfactor> 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.

User-Friendly **Operation**

Durability & Reliability

High Precision Technology

POWER SUPPLY PARAMETERS			
Model	Fe, ss	Cu, Au, Ag	Al, Al-alloy
BTS-IMMF-MF15	3 kg	10 kg	3 kg
BTS-IMMF-MF25	5 kg	20 kg	5 kg
BTS-IMMF-MF35	10 kg	30 kg	10 kg
BTS-IMMF-MF45	18 kg	50 kg	18 kg
BTS-IMMF-MF70	25 kg	80 kg	25 kg
BTS-IMMF-MF90	40 kg	120 kg	40 kg
BTS-IMMF-MF110	50 kg	150 kg	50 kg
BTS-IMMF-MF160	100 kg	250 kg	100 kg

MELTING PARAMETERS							
Model Number	Max. Input Power	Max. Input Current	Input Voltage	Oscillation Frequency	Requirement of Cooling Water		Temperature of water
					Hydraulic pressure	Flow rate	
BTS-IMMF-MF15	15 kw	23A	3phase 340V~420V 50/60Hz	1K~20 KHz	≥0.2 Mpa	≥6L/Min	≤45℃
BTS-IMMF-MF25	25 kw	23A					
BTS-IMMF-MF35	35 kw	51A			≥0.3 Mpa	≥20L/Min	
BTS-IMMF-MF45	45 kw	68A					
BTS-IMMF-MF70	70 kw	105A					
BTS-IMMF-MF90	90 kw	135A					
BTS-IMMF-MF110	110 kw	168A					
BTS-IMMF-MF160	160 kw	240A					

MELTING

TILTING MELTING FURNACE

TYPE BTS-TMF-RTF

The Bitsun Tilting Melting Furnace is designed for melting 10–100 kg of precious and non-ferrous metals such as silver, gold, copper, and aluminum with exceptional speed and precision. Powered by advanced induction heating technology, it ensures fast, uniform, and energy-efficient melting while maintaining the highest level of metal purity. The tilting design allows smooth and controlled pouring of molten metal, eliminating spillage and improving safety during operation.

Built from high-grade refractory materials and equipped with intelligent temperature control, the Bitsun Tilting Melting Furnace offers stable performance and long service life. It is ideal for industrial foundries, jewelry refineries, and metal casting facilities that demand reliability and productivity. This furnace enhances operational efficiency by reducing melting time and energy consumption. With user-friendly controls, quiet operation, and excellent thermal insulation, the Bitsun Tilting Melting Furnace is the perfect solution for professional metal melting, combining speed, safety, and precision in one powerful system.

Durability & **Reliability**

User-Friendly **Operation**

High Precision **Technology**

MELTING

GOLD MELTING INDUCTION FURNACE

TYPE BTS-GMIF-CTF

The Bitsun Tilting Melting Furnace is designed for melting 10–100 kg of precious and non-ferrous metals such as silver, gold, copper, and aluminum with exceptional speed and precision. Powered by advanced induction heating technology, it ensures fast, uniform, and energy-efficient melting while maintaining the highest level of metal purity. The tilting design allows smooth and controlled pouring of molten metal, eliminating spillage and improving safety during operation.

Built from high-grade refractory materials and equipped with intelligent temperature control, the Bitsun Tilting Melting Furnace offers stable performance and long service life. It is ideal for industrial foundries, jewelry refineries, and metal casting facilities that demand reliability and productivity. This furnace enhances operational efficiency by reducing melting time and energy consumption. With user-friendly controls, quiet operation, and excellent thermal insulation, the Bitsun Tilting Melting Furnace is the perfect solution for professional metal melting, combining speed, safety, and precision in one powerful system.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

MELTING

HYDRAULIC TILTING INDUCTION FURNACE

TYPE BTS-HTIF-HTF

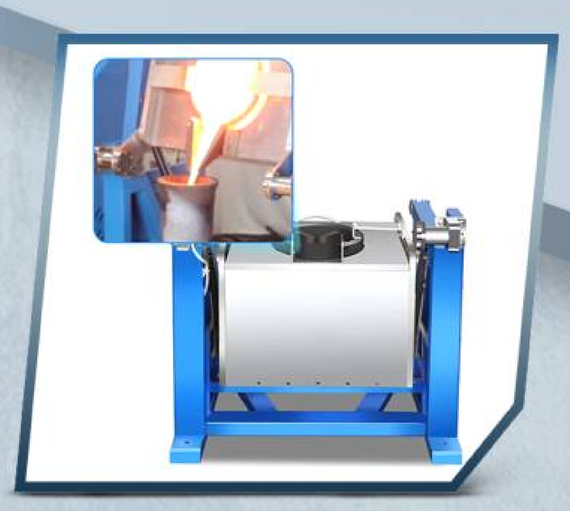
Durability & **Reliability**

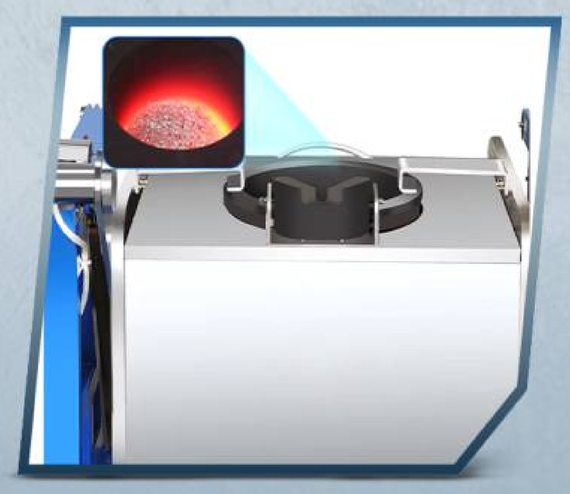
User-Friendly **Operation**

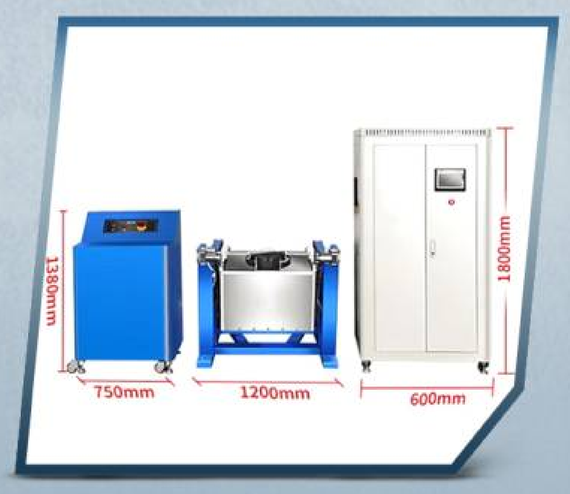
High Precision **Technology**

The Bitsun Hydraulic Tilting Induction Furnace is an advanced electric melting system that uses induction heating to efficiently melt a wide range of metals. It operates by generating a powerful magnetic field that creates eddy currents within the metal, producing rapid and uniform heating until the material reaches its melting point. Designed for industrial-scale use, this model supports capacities from 50 kg to 250 kg, making it ideal for melting gold, silver, platinum, copper, brass, and aluminum.

The hydraulic tilting mechanism ensures smooth, controlled pouring of molten metal, minimizing spillage and enhancing operator safety. Built with durable refractory materials and a digital control interface, it provides precise temperature management, stability, and long service life. Suitable for jewelry foundries, metal casting plants, and refining facilities, the Bitsun Hydraulic Tilting Induction Furnace combines power, precision, and safety in one robust system. Whether for small-scale or large-scale production, this furnace delivers consistent results, high energy efficiency, and exceptional melting performance.







MELTING

VACUUM INDUCTION MELTING MACHINE

BITSUN

TYPE BTS-VIMM-VTB15

The Bitsun Vacuum Induction Melting Machine is engineered for melting gold, silver, platinum, palladium, nickel, cobalt, and other precious metals with superior precision. Utilizing vacuum melting and anti-oxidation technology, it ensures the highest purity and quality of the final metal. This system allows manufacturers to produce special alloys, superalloys, and high-purity metals used in luxury jewelry and advanced industrial applications. The precise temperature and atmosphere control prevent contamination and oxidation during melting. Ideal for research labs, jewelry foundries, and refining plants, the Bitsun Vacuum Induction Melting Machine guarantees consistent quality, high efficiency, and exceptional melting performance for demanding metal processing environments.

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;

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

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.

SPECIFICATION	
Model number	BTS-VIMM-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: 2kg Gold: 3kg Silver: 1.6kg
Max temperature	2600℃
Water cooling requirement	≥0.3Mpa, flowrate≥20L/min, ≤45℃
Dimension	690*1200*1100 mm
Weight	220 kg
Heating technology	Induction heating

CASTING

VACUUM PRESSURE CASTING MACHINE

BITSUN

TYPE BTS-VPCM-DM SERIES

The Bitsun Vacuum Pressure Casting Machine is specially designed for producing high-quality jewelry and metal artworks with exceptional precision. The entire melting and casting process operates under vacuum and argon pressure, effectively preventing oxidation and ensuring that your precious metals retain their purity and brilliance. This system delivers high-density, compact castings with minimal air bubbles and virtually zero shrinkage cavities, resulting in flawless surfaces and fine details.

Equipped with an accurate digital temperature control system with an error margin of only ±2°C, it guarantees stable and repeatable casting performance. Ideal for crafting gold, silver, platinum, and other precious metals, the Bitsun Vacuum Pressure Casting Machine is perfect for jewelry manufacturers seeking precision, consistency, and superior casting results in every production cycle. It combines innovation, efficiency, and reliability for professional-grade jewelry creation.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION			
Model Number	BTS-VPCM-DM2	BTS-VPCM-DM4	BTS-VPCM-DM6
Power Source	Single phase 220V / 3 phase 380V, 50/60hz		3 phase 380V, 50/60Hz
Power	8.5 kw	15 kw	25 kw
Casting system	Vacuum pressure casting system		
Applicable Metal	Platinum, palladium, gold and copper		
Melting Time	3-5 min		
Max Capacity	24K Gold: 2.0kg 18K Gold: 1.5kg 925 Silver: 1.0kg	24K Gold: 4.0kg 18K Gold: 3.0kg 925 Silver: 2.0kg	24K Gold: 6.0kg 18K Gold: 4.0kg 925 Silver: 2.0kg
Max Heating Temperature	1600℃		
Max temp control K-type	1100℃ (Standard configuration)		
Accuracy of temperature	±2 Degrees Celsius		
Dimension	720×700×1150mm	720×700×1150mm	720×800×1150mm
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)

CASTING

VACUUM MIXER

TYPE BTS-VM-IPM2

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model number	BTS-VM-IPM2
Power source	3phase380V,50/60Hz
Power	500w
Applicable	Mix investment powder
Flask chamber size	Φ350*H300
Mixer chamber size	Φ300*H400
Max capacity	5pcsof4*10inchflask
Powder weight	15kg
Dimension	180*650*1500mm
Weight	150kg
Mixing time setting	Available
Vacuum time setting	Available
Water auto feeding	Available

CASTING

WAX BURNOUT OVEN

BITSUN

TYPE BTS-WBO-WF SERIES

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

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

CASTING

BURNOUT OVEN

TYPE BTS-BO-HWF12/HWF14

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model Number	BTS-BO-HWF12	BTS-BO-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*9 inch flask	24 pcs of 4*9 inch flask
Max temperature	999℃	999℃
Operation Temperature	850℃	850℃
Chamber Size	450*290*520mm	420*550*500mm
Dimension	800*550*830mm	850*1200*1900mm
Weight	183kg	230kg

CASTING

VACUUM PRESSURE CASTING MACHINE

BITSUN

TYPE BTS-VPCM-MVC150

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model number	BTS-VPCM-MVC150
Power source	220V
Power	4.5kw
Maximum temperature	2600℃
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

CASTING

INVESTMENT POWDER MIXING MACHINE

TYPE BTS-IPMM-MIPM1

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

The Bitsun Mini Vacuum Jewelry Casting Kit is the ideal companion for mini vacuum casting machines, designed to simplify and optimize the jewelry casting process. It eliminates the need for separate operations such as powder mixing, vacuum pumping, powder injection, and re-vacuuming. By integrating these steps into a single automated process, it significantly reduces air bubbles and enhances casting quality. Compact and efficient, the system offers space-saving design, high working speed, and multifunction capability. Perfect for small jewelry workshops or laboratories, the Bitsun Mini Vacuum Jewelry Casting Kit ensures smooth operation, consistent results, and superior precision in every jewelry casting application.

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

CASTING

MINI WAX BURNOUT OVEN

TYPE BTS-MWBO-MWF1

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

The Bitsun Mini Wax Burnout Oven is designed for efficient and clean wax removal in jewelry casting. As a professional-grade wax melting system, it ensures that wax flows smoothly out of plaster molds, leaving behind a perfect hollow mold ready for metal casting. The oven features an advanced secondary combustion design, which re-ignites unburned wax residues during the dewaxing process, ensuring complete combustion. This innovation effectively minimizes wax odor and smoke, creating a cleaner and safer working environment. Compact, reliable, and energy-efficient, the Bitsun Mini Wax Burnout Oven is an essential tool for precise jewelry mold preparation in both small studios and professional workshops.

SPECIFICATION	
Model number	BTS-MWBO-MWF1
Power source	220V
Power	4kw
Dimension	300*200*120mm
Max Temperature	1100°C
Weight	75kg

CASTING

VACUUM PRESSURE CASTING MACHINE

TYPE BTS-VPCM-A

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

The Bitsun Vacuum Pressure Casting Machine is specifically designed for producing high-quality jewelry and precision metal parts. Using advanced vacuum and argon pressure technology, it ensures a clean, smooth casting surface with minimal oxidation. The machine efficiently removes surface particles through controlled pressure, achieving a natural metallic brightness and flawless finish. It is ideal for applications such as small hardware accessories, craft gifts, gold and silver jewelry, and engraved components.

Equipped with a lightweight and flexible spray gun, this system offers high efficiency and easy operation while keeping maintenance simple. With its low investment cost and outstanding casting accuracy, the SuperbMelt Vacuum Pressure Casting Machine is the perfect solution for jewelers and craftsmen who demand perfection in every detail of their metal casting process.

SPECIFICATION	
Model number	BTS-VPCM-A
Power source	220V
Power	250w
Dimension	490*410*360mm
Weight	75kg

CASTING

CENTRIFUGAL CASTING MACHINE

TYPE BTS-CCM-CPC250

The BITSUN Centrifugal Casting Machine is specifically designed for casting high-temperature metals such as platinum, palladium, and stainless steel. With a melting capability of up to 2600°C, this machine ensures efficient and precise metal casting for both industrial and jewelry applications. During operation, molten metal is poured into a rotating mold at a controlled temperature, ensuring optimal length, thickness, and density before solidification. The electric motor–driven rotation system stabilizes the molten metal through centrifugal force, achieving smooth, uniform results. BITSUN's advanced design guarantees consistent casting quality, reduced porosity, and improved material strength.
This machine is ideal for jewelry manufacturers, dental laboratories, and metal processing industries, offering a reliable, easy-to-use, and cost-effective solution that enhances production speed and quality in every casting project.

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.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
Model number	BTS-CCM-CPC250
Power source	Three phase AC 380V
Power	6 kw 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	500 kg

CASTING

BULLION VACUUM CASTING MACHINE

TYPE BTS-BVCM-JD1/ JD2

The BITSUN Bullion Vacuum Casting Machine is designed to produce high-quality gold and silver bullion bars in various sizes and shapes according to your specific requirements. This advanced system uses a pressurized inert gas chamber to ensure flawless casting results, completely eliminating porosity, shrinkage, or surface imperfections such as ripples and water waves. Every bar cast with BITSUN's vacuum system achieves exceptional density, smooth surfaces, and a brilliant finish.
Unlike traditional casting methods, the entire process takes place under vacuum and inert atmosphere, which effectively prevents oxidation and contamination, ensuring your precious metals retain their purity and value. The machine's intelligent design not only enhances the quality of the final product but also prioritizes operator safety with secure and stable operation.
The BITSUN Bullion Vacuum Casting Machine is ideal for minting facilities, refineries, and jewelry manufacturers seeking efficient, consistent, and premium bullion production with precision and reliability.

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model Number	BTS-BVCM-JD1	BTS-BVCM-JD2
Power Source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	15w	25w
Applicable Metal	Gold and Silver	Gold or Silver
Max Capacity	2kg gold bar or 1 kg silver bar	2kg gold or silver
Max Temperature	-	1500°C
Casting Time	About 12 mins	12 mins
Casting Mode	Auto and manual mode switch	Auto or manual for option
Application	-	Quality bullion casting
Dimension	1000*800*1350 mm	1000*800*1350 mm
Weight	205 kg	225 kg
Protection Gas	Nitrogen or argon	Argon
Vacuum Pump	63 m^3/hour	63 m^3/hour
Heating Technology	Induction heating	Induction heating
Customized Mold Size	Meet different bullion production	Meet different bullion production

CASTING

BULLION VACUUM CASTING MACHINE

BITSUN

TYPE BTS-BVCM-JD4/JD10

The BITSUN Bullion Vacuum Casting Machine is designed to produce high-quality gold and silver bullion bars in various sizes and shapes according to your specific requirements. This advanced system uses a pressurized inert gas chamber to ensure flawless casting results, completely eliminating porosity, shrinkage, or surface imperfections such as ripples and water waves. Every bar cast with BITSUN's vacuum system achieves exceptional density, smooth surfaces, and a brilliant finish.

Unlike traditional casting methods, the entire process takes place under vacuum and inert atmosphere, which effectively prevents oxidation and contamination, ensuring your precious metals retain their purity and value. The machine's intelligent design not only enhances the quality of the final product but also prioritizes operator safety with secure and stable operation.

The BITSUN Bullion Vacuum Casting Machine is ideal for minting facilities, refineries, and jewelry manufacturers seeking efficient, consistent, and premium bullion production with precision and reliability.

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model Number	BTS-BVCM-JD4	BTS-BVCM-JD10
Power Source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	45w	75w
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	4pcs of 1kg bar	4pcs of 1kg bar or 400oz gold bar
Dimension	1450*620*1080 mm	1510*750*1250 mm
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

CASTING

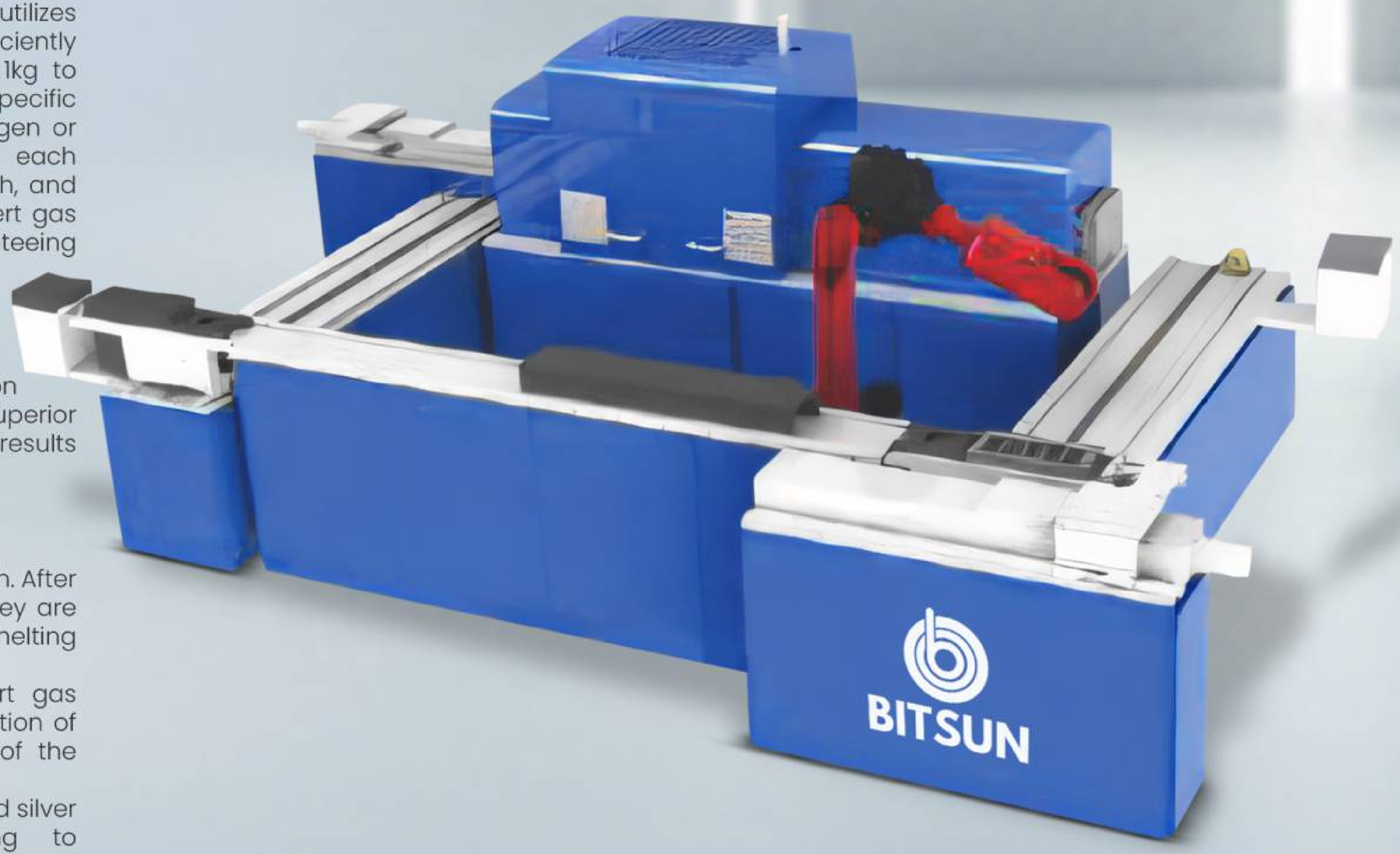
TUNNEL BAR CASTING MACHINE

BITSUN

TYPE BTS-TBCM-JDS

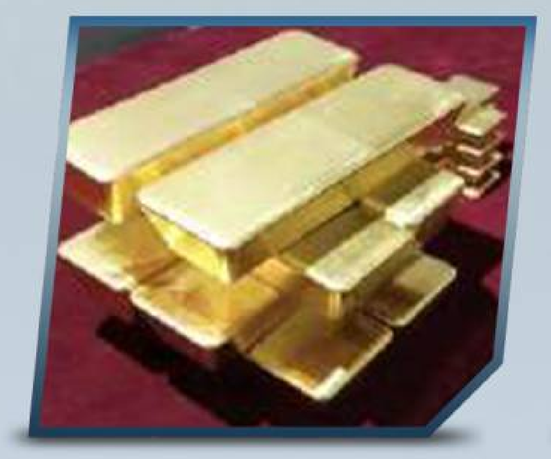
The BITSUN Bullion Vacuum Casting Machine utilizes advanced automation technology to efficiently cast gold and silver ingots ranging from 1kg to 12.5kg, with customizable sizes to meet specific production needs. Operating under a nitrogen or argon protective atmosphere, it ensures each bullion bar achieves a perfectly flat, smooth, and oxidation-free surface. The vacuum and inert gas environment eliminate impurities, guaranteeing high metal purity and consistent quality.

Ideal for professional refineries, mints, and jewelry manufacturers, the BITSUN Bullion Vacuum Casting Machine combines precision engineering, stability, and automation for superior casting performance and flawless bullion results every time.



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.



User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model number	BTS-TBCM-JDS
Voltage	380V
Power	180kw
Control System	PLX control
Applicable Metals	Gold, Silver
Protective Gas	Nitrogen, argon
Output	60 pieces of 1 kg gold/hour
Capacity	5 pieces of 1 kg gold/furnace
Cooling Method	Water cooling
Maximum Temperature	1600°C
Dimensions	5300*4200*1650 mm

CASTING

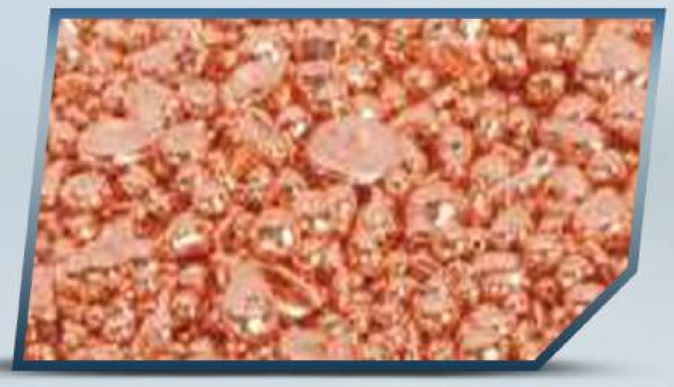
GRANULATING MACHINE

BITSUN

TYPE BTS-GM-JL15/JL25/JL35

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;
- Low scrap rate, ensures production efficiency and increases production;
- Good grain effect of casting.



User-Friendly **Operation**

High Precision **Technology**

Durability & **Reliability**

SPECIFICATION			
Model Number	BTS-GM-JL15	BTS-GM-JL25	BTS-GM-JL35
Power Source	3 phase 380V, 50/60Hz		
Power	15 kw	25 kw	35 kw
Applicable Metal	Gold, K-gold, Silver, Copper		
Casting Method	Gravity Granulation		
The Max Capacity	24K Gold: 6.0kg ; 925 Silver: 3kg	24K Gold: 6.0kg ; 925 Silver: 8.0kg	24K Gold: 30.0kg ; 925 Silver: 16.0kg
Casting Material	Particles		
Dimension	1200*530*1200 mm		
Weight	150KG	180KG	220KG

CASTING

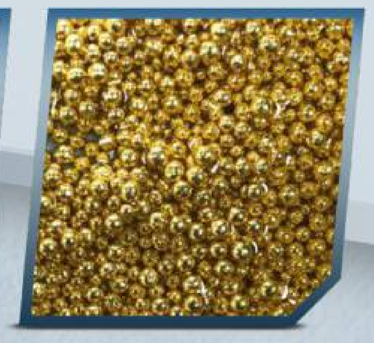
VACUUM GRANULATING MACHINE

TYPE BTS-VGM-VS55P/VS10P/VS20P

The BITSUN Vacuum Granulating Machine is designed to granulate precious metals such as gold, silver, copper, and alloys with exceptional purity and uniformity. The process involves melting the metal inside a vacuum chamber, then passing it through a multi-hollow crucible before cooling it in a circulating water tank, forming perfectly round and oxidation-free granules.
Equipped with an electromagnetic automatic stirring system, this machine ensures consistent particle size, brilliant luster, and high precision. Operating under a fully vacuumed inert gas environment, it completely prevents oxidation during melting.
Ideal for refineries and jewelry manufacturing facilities, the BITSUN Vacuum Granulating Machine guarantees superior quality metal granules with excellent appearance and consistency.

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;



User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION			
Model Number	BTS-VGM-VS55P	BTS-VGM-VS10P	BTS-VGM-VS20P
Power Source	3phase 380V, 50/60Hz	3phase 380V, 50/60Hz	3phase 380V, 50/60Hz
Power	15 kw	25 kw	35 kw
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	5-6min		
Max Capacity	24K Gold: 5.0kg; 925 Silver: 2.5kg	24K Gold: 10.0kg; 925 Silver: 5.0kg	24K Gold: 20.0kg; 925 Silver: 10.0kg
Max Heating Temperature	1600℃		
Max Temp Control K-type	1100℃		
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)	63m³/hour		
Control of Temperature	by PID		
Accuracy of Temperature	±2 Degrees Celsius		
Vacuum Filter	Y		
Vacuum Leakage Detector	Y		
Casting Chamber Auto Lift	Y		

CASTING

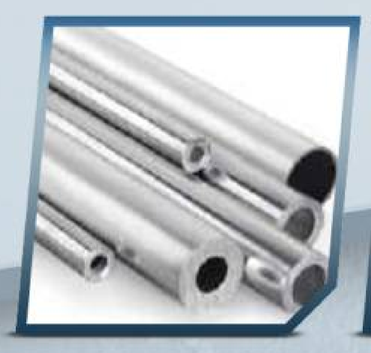
CONTINUOUS CASTING MACHINE

TYPE BTS-CCM-LS4/LS8

The BITSUN Continuous Casting Machine is engineered to produce metal shapes with a constant cross-section efficiently, minimizing material waste and production costs compared to traditional ingot casting methods. Designed for high-density metals such as gold, silver, and copper, this machine allows you to cast metals into rectangular, cylindrical, round, or rod shapes with exceptional precision.
Equipped with gas melting protection technology, it ensures oxidation-free casting and precise temperature control. The automated stirring system enhances metal uniformity and surface quality.
Ideal for refineries and jewelry manufacturing, the BITSUN Continuous Casting Machine delivers smooth, dense, and consistent metal forms for high-quality production.

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 semifinished 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.



User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model Number	BTS-CCM-LS4	BTS-CCM-LS8
Power Source	3 phase 220V, 50/60Hz	3 phase 380V, 50/60Hz
Power	15 kw	25 kw
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-Φ30 mm Tube: Min Φ9*12 mm Max Φ27*30 mm Strip: Min T5*W10 mm Max T20*W30 mm	Rod: Φ4-Φ30 mm Tube: Min Φ9*12 mm Max Φ52*60 mm Strip: Min T5*W10 mm Max T20*W70 mm
Max Temperature	1600℃	1600℃
Max Temp Control K-type (standard configuration)	1100℃	1100℃
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

CASTING

VACUUM CONTINUOUS CASTING MACHINE

TYPE BTS-VCCM-LS4V/LS8V

The BITSUN Vacuum Continuous Casting Machine is specially designed for producing high-density gold, K-gold, silver, and other precious metal rods, sheets, rectangular bars, and tubes. Operating in a controlled vacuum environment, it effectively prevents porosity, oxidation, and other casting defects, ensuring superior density and uniform metal texture.
With advanced casting technology and precision engineering, this machine achieves exceptional metallurgical quality and consistent performance. It delivers high speed, stability, and cost efficiency, making it ideal for refineries, jewelry manufacturers, and industrial metal processing.
The BITSUN Vacuum Continuous Casting Machine guarantees smooth, flawless, and reliable results for every casting operation.

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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model Number	BTS-VCCM-LS4V	BTS-VCCM-LS8V
Power Source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	15 kw	25 kw
Applicable Metal	Gold, K gold, Silver, Copper and their alloys, Etc.	Gold, K gold, Silver, Copper and their alloys, Etc.
Max Capacity	24K Gold: 4.0kg; 18K Gold: 3.0kg; 925 Silver: 2.5kg	24K Gold: 8.0kg; 18K Gold: 6.0kg; 925 Silver: 4.0kg
Melting Time	10min	10min
Casting Application	Rod: Φ4-Φ30mm Tube: MinΦ9*12mm Max Φ27*30mm Strip: Min T5*W10mm Max T20*W30mm	Rod: Φ4-Φ30mm Tube: MinΦ9*12mm Max Φ52*60mm Strip: Min T5*W10mm Max T20*W70mm
Max Temperature	1600℃	1600℃
Max Temp Control K-type (standard configuration)	1100℃	1100℃
Dimension	900X1150X2000 mm	900X1150X2000 mm
Weight	260kg	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

CASTING

WATER ATOMIZATION METAL POWDER

TYPE BTS-WAMP-VPM SERIES

The BITSUN Water Atomization Metal Powder Machine combines an advanced melting furnace with a high-pressure water atomizer to produce ultra-fine metal and alloy powders. It is capable of pulverizing a wide range of metals, including gold, silver, platinum, palladium, cobalt, copper, nickel, iron, and zinc, as well as high-melting-point refractory metals.

Unlike traditional milling methods that are limited by mechanical and physical constraints, BITSUN's atomization technology enables precise control of powder purity, fineness, and particle distribution according to production requirements.

Using an ultra-high-pressure water system, molten metal is rapidly fragmented into fine droplets, which cool instantly to form spherical or irregular particles. The entire process operates under inert gas protection, preventing oxidation and contamination.

The resulting powders are clean, uniform, and ideal for applications in metal additive manufacturing, powder metallurgy, and jewelry production—delivering superior performance and consistency in every batch.

FEATURES

▶ High Efficiency

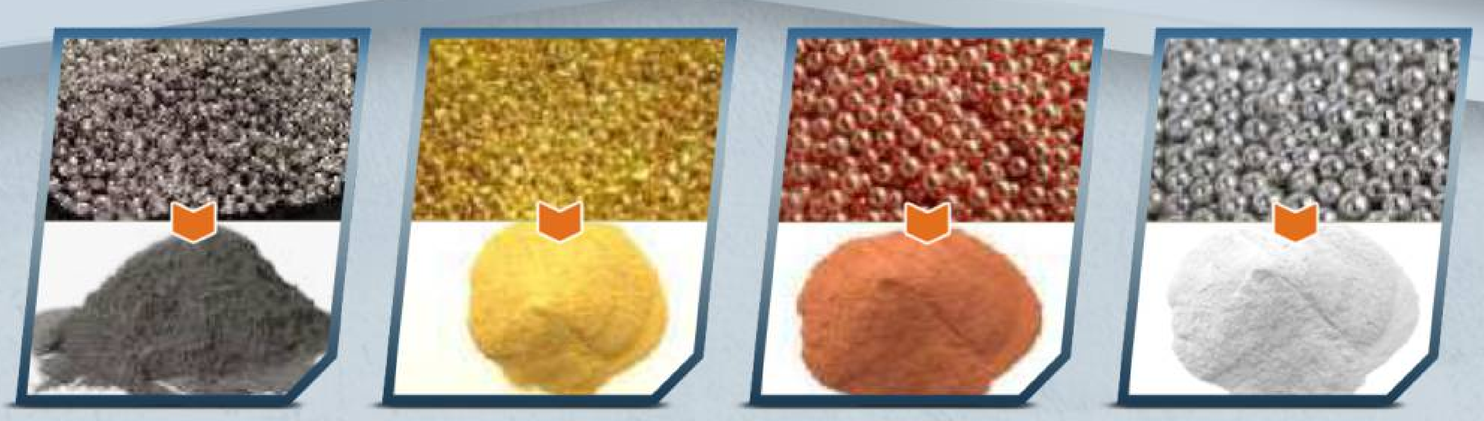
The configuration of the high-pressure water system greatly improves the atomizing efficiency, and 25kg of metal powder can be produced one hour;

▶ 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.



High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION					
Model Number	BTS-WAMP-VPM4	BTS-WAMP-VPM10	BTS-WAMP-VPM30	BTS-WAMP-VPM50	BTS-WAMP-VPM100
Voltage	380V				
Power	45 kw	25 kw	50 kw	70 kw	100 kw
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

CASTING

METAL SHREDDER

TYPE BTS-MS-SP SERIES

The BITSUN Metal Shredder is a high-performance machine designed to crush and shred metal materials into small flakes or uniform pieces with remarkable efficiency. It is ideal for processing precious metal scraps such as gold, silver, platinum, copper, and other alloys before refining. By breaking metals into smaller fragments, the refining process becomes significantly faster and more effective, ensuring zero material loss and maximum metal recovery.

This technology not only enhances production capacity but also reduces operational costs, making it a valuable asset for refineries and jewelry recycling facilities. The BITSUN Metal Shredder is engineered for durability, stability, and low maintenance, enabling continuous operation in demanding environments.

Beyond performance, this machine promotes environmental sustainability by optimizing material reuse and reducing industrial waste. It is a smart, eco-conscious solution that supports both productivity and responsible metal processing.

FEATURES

- Dry Flakes

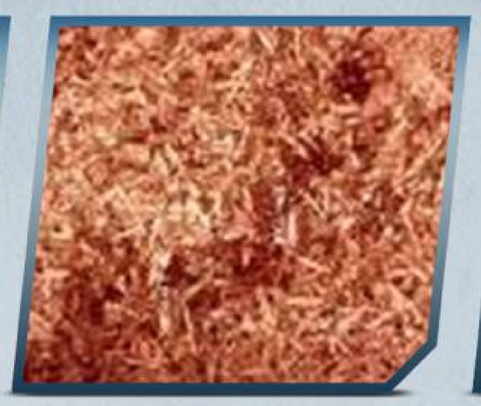
In an anhydrous working environment throughout the process. The finished product does not need to be dried and can be used directly, saving time and cost.

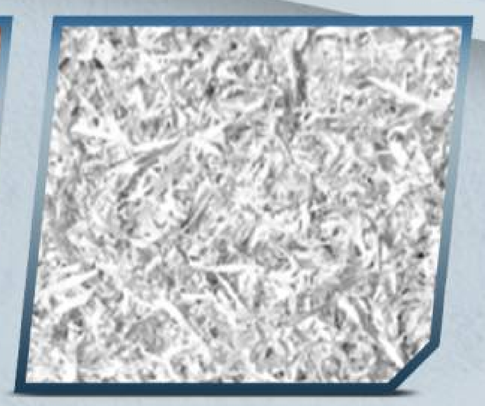
- Uniform Finished

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.





High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

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

AUTOMATIC STONESETTING

DEKSTOP AUTOMATIC DIAMOND SETTING MACHINE

TYPE BTS-DAWSSM-ASM1

The BITSUN Automatic Diamond Setting Machine revolutionizes the jewelry manufacturing process by embedding 9,000–12,000 diamonds or gemstones into wax molds per hour with precision and speed. This advanced desktop system dramatically reduces the time and labor needed for wax stone setting, optimizing the entire production workflow. Designed for professional jewelers and manufacturers, it guarantees consistent quality, accurate placement, and superior productivity compared to traditional manual techniques.
With intelligent automation, the BITSUN machine simplifies complex tasks, minimizing human error while maximizing output. It is an ideal solution for businesses aiming to increase efficiency, maintain craftsmanship excellence, and shorten production cycles — a true innovation that elevates jewelry making to a new level of precision and performance.

FEATURES

- Efficiency: Reduces production time significantly by automating the stone setting process, making it ideal for handling bulk orders and streamlining operations.
- Accuracy: High precision ensures perfect alignment and placement, reducing errors and waste.
- Versatility: Accommodates various stone sizes and shapes, catering to intricate jewelry designs.
- User-Friendly: Intuitive controls and flexible fixation mechanisms simplify operation and enhance productivity.
- Durability: Built with robust materials and components for long-term industrial usage.
- Cost-Effective: Minimizes manual labor and increases output, providing excellent value for jewelry manufacturers.

Durability & **Reliability**

High Precision **Technology**

User-Friendly **Operation**

SPECIFICATION	
Equipment name	Desktop Automatic Wax Stone Setting Machine
Equipment model	BTS-DAWSSM-ASM1
Workbench structure	Five-axis linkage workbench
Running speed	9000-12000 diamonds per hour
Number of suction drill bits	3 suction nozzles
Drill plate fixing method	Movable spring top screw on the upper side of the platform
Drill accuracy	±0.02mm
Control system	Industrial-grade five-axis motion controller
Drive system	High-end servo
Transmission method	High precision screw guide
XYZ/A/C Effective stroke	200*95*150mm/+159°-5°/±360°
Working air pressure	80psi (0.4Mpa)
Equipment appearance size	Length 710 * width 600 * height 670 mm
Equipment weight	About 116kg

AUTOMATIC STONESETTING

3D AUTOMATIC WAX SETTING MACHINE

BITSUN

TYPE BTS-AWSM-3DZ500

The BITSUN 3D Automatic Wax Setting Machine combines efficiency, precision, and versatility to transform jewelry production. By fully automating the stone-setting process, it significantly reduces production time, making it ideal for large-scale manufacturing. Its high-precision alignment ensures flawless placement with minimal errors or material waste. The machine supports various stone sizes and shapes, perfect for creating intricate jewelry designs. With intuitive controls and flexible fixation mechanisms, it offers smooth operation and enhanced productivity. Built from durable industrial-grade materials, it guarantees long-lasting performance while minimizing manual labor and operational costs—providing outstanding value and reliability for modern jewelry manufacturers.

FEATURES

- 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.
- 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.
- 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.
- 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.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Equipment name	Mini Automatic Diamond Setting Machine
Equipment model	BTS-AWSM-3DZ500
Workbench structure	Five-axis linkage workbench
Spot Drilling speed	9000-12000 drills/hour
Number of suction drill head	
Fixing method of drill head	3 suction nozzles
Spot drilling accuracy	Embedded
Control system	±0.02mm
Main operating system	Industrial five-axis motion controller
Drive system	Self-research system of superb Melt technology
Transmission method	High-end servo
Z*Y*Z/A/C effective travel	High precision screw guide
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

LASER WELDING & MARKING

MINI LASER WELDING MACHINE

BITSUN

TYPE BTS-MLWM-80WB/150WB

The BITSUN XR6800 Handheld Gold Analyzer is a compact and portable device designed for quick, non-destructive testing of gold and other precious metals. It can analyze up to 82 elements with results delivered in just 3–30 seconds, making it ideal for on-site testing. Weighing only 1.58 kg, it offers excellent mobility for jewelry shops, refineries, and field operations. The analyzer ensures high precision and reliability, detecting metals in solid, liquid, or powder form. Equipped with a 5-inch touchscreen and a high-resolution camera, it provides accurate readings and clear visual data, helping professionals verify metal purity with confidence and ease.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION		
Model Number	BTS-MLWM-80WB	BTS-MLWM-150WB
Wavelength	1064nm	1064nm
Pump Source	Single Lamp	Single Lamp
Pulse Width	0.1-lSms	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

LASER WELDING & MARKING

150W SMALL LASER WELDING MACHINES

BITSUN

TYPE BTS-SLWM-S150W

The BITSUN 150W Small Laser Welding Machine is a high-precision laser welder designed for gold, silver, and other metal jewelry applications. With powerful 150W output and 80J energy, it delivers smooth, clean, and durable welds without deforming delicate components. This compact laser welder is ideal for a wide range of uses, including jewelry repair, electrical components, battery electrodes, motor housings, socket connectors, and small cast parts. Its focused laser beam enables precise spot welding with minimal heat impact, ensuring flawless joints and excellent surface quality. Perfect for jewelers, manufacturers, and repair workshops demanding accuracy, speed, and consistent performance.

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

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model number	BTS-SLWM-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

LASER WELDING & MARKING

200W JEWELRY LASER WELDER

BITSUN

TYPE BTS-JLW-200WBC

The BITSUN 200W Jewelry Laser Welder delivers exceptional welding speed and precision for professional jewelry applications. Operating at a wavelength of 1064 nm, it ensures clean, nearly flawless joints on gold, silver, platinum, and other precious metals. The intuitive LCD control panel allows easy adjustment of parameters such as current, frequency, pulse, and spot size for optimal performance. Equipped with a binocular microscope and built-in camera, users can clearly monitor the welding process to minimize errors and improve accuracy. With a powerful 200W output, this laser welder combines speed, stability, and precision—making it ideal for jewelry manufacturing and repair workshops.

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

High Precision Technology

User-Friendly Operation

Durability & Reliability

SPECIFICATION	
Model Number	BTS-JLW-200WBC
Wavelength	1064nm
Pump Source	Single Lamp
Pulse Width	0.1-20ms
Pulse Frequency	<=50Hz
Aiming and Positioning	Microscope + Camera System
Cooling System	AC220V±5%/ 50Hz
Electricity Demand	Built-in Water + Air cooling
Weight	178KG
Dimensions	L: 1050mm* W: 620mm* H: 1250mm

LASER WELDING & MARKING

200W JEWELRY LASER WELDER

BITSUN

TYPE BTS-JLW-S200WB

The BITSUN 200W Jewelry Laser Welder delivers exceptional welding speed and precision for professional jewelry applications. Operating at a wavelength of 1064 nm, it ensures clean, nearly flawless joints on gold, silver, platinum, and other precious metals. The intuitive LCD control panel allows easy adjustment of parameters such as current, frequency, pulse, and spot size for optimal performance. Equipped with a binocular microscope and built-in camera, users can clearly monitor the welding process to minimize errors and improve accuracy. With a powerful 200W output, this laser welder combines speed, stability, and precision—making it ideal for jewelry manufacturing and repair workshops.

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

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model Number	BTS-JLW-S200WB
Wavelength	1064nm
Pump Source	Single Lamp
Pulse Width	0.1-20ms
Pulse Frequency	<=50Hz
Aiming and Positioning	Microscope + Camera System
Cooling System	AC220V±5%/ 50Hz
Electricity Demand	Water + Air cooling
Weight	218KG
Dimensions	L: 1050mm* W: 620mm* H: 1250mm Chiller L: 620* W: 480* H: 710mm

LASER WELDING & MARKING

LASER CUTTING MACHINE

BITSUN

TYPE BTS-LCM-LC2000

The BITSUN Laser Cutting Machine is designed for high-precision cutting of gold, silver, copper, platinum, and other precious or industrial metals. It can accurately create intricate patterns, detailed engravings, and customized shapes, making it ideal for the jewelry, hardware, and metal processing industries. Using advanced laser technology, it ensures smooth edges, minimal material waste, and consistent quality across every cut. The system supports both fine detailing and large-scale production, offering superior performance for creative and technical applications. With fast operation and reliable accuracy, the BITSUN Laser Cutting Machine helps manufacturers enhance productivity and achieve outstanding craftsmanship results.

FEATURES

- The Laser Cutting Machine is an advanced laser processing equipment that integrates optics, mechanics, and electronics. It utilizes laser technology, computer control systems, and a high-performance CNC laser power supply to process metal plates of various specifications quickly and efficiently.
- The small-format metal laser cutting machine represents a new generation of safe, high-efficiency, energy-saving, and environmentally friendly equipment. It offers precision cutting, fast processing speed, minimal thermal effect, and narrow cutting gaps, making it ideal for metal sheet fabrication with simple, flexible, and convenient operation.
- It can cut various metal sheets and pipes, including stainless steel, carbon steel, iridium steel, galvanized sheet, and various alloys with consistent accuracy and clean edges

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model	BTS-LC2000
Power	2000W
Laser Wave Length	1064 mm
Processing Format	400x250 mm
Transmission Mode	Ball screw/linear motor
Repeat Positioning Accuracy	±0.01 mm
Working Temperature	0～40°C
The Maximum Load of the Workbench	100 kg
Cutting Speed	Depends on the Thickness of the Material
Working Environment Humidity Range	<70% non-condensing

LASER WELDING & MARKING

DESKTOP FIBER LASER ENGRAVING MACHINE

BITSUN

TYPE BTS-DFLEM-MFLM

The Bitsun Desktop Fiber Laser Engraving Machine is designed for precise marking and engraving on various metal materials such as gold, silver, copper, stainless steel, and more. Ideal for jewelry, handicrafts, watches, eyewear, and electronic components, it delivers clean and permanent engravings with exceptional accuracy. This compact and efficient machine can engrave logos, serial numbers, QR codes, and barcodes with ease. Using advanced fiber laser technology, the system directs a focused laser beam to etch preset designs or text onto the metal surface. With high-speed performance and excellent beam stability, the Bitsun laser engraver ensures consistent quality and durability for both industrial and artistic applications.

FEATURES

- Desktop Fiber Laser Engraving Machine

The machine has a compact design with dimensions of only 740 × 620 mm, making it even smaller than a computer case. It is lightweight and easy to move, ideal for workshops with limited space.

- High-Quality Laser

With excellent working stability and extremely low amplitude noise, it operates efficiently for long hours. The laser source lifespan can reach up to 100,000 hours, ensuring long-term reliability and performance.

- High Precision

This high-precision marking machine offers an accuracy of 0.002 mm, capable of engraving intricate and detailed patterns with exceptional clarity.

- Fast Marking Speed

Equipped with an advanced laser scanning system, it achieves rapid marking speeds of up to 7000 mm/s, ensuring high productivity and smooth operation.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model Number	BTS-DFLEM-MFLM
Average Output Power	20W/30W/50W
Beam Quality	M^2: 1.5 (TEMOO mode)
Repeatability	0.01 mm
Max Line Speed	12000 mm/s
Min Line Width	0.017 mm
Power Adjustment Range	1%-100%
Laser Wave length	1064 nm
Total Power	≤500 W
Marking Range	110 mm*110 mm/ 175 mm*175 mm
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℃-28℃
Marking Depth	0.01mm-1mm (Determined by material)
Power Requirements	AC220V/50Hz/2A

LASER WELDING & MARKING

VERTICAL LASER ENGRAVING MACHINE

TYPE BTS-VLEM-FLM100

The Bitsun Vertical Laser Engraving Machine is designed for medium to large-scale jewelry production and metal processing industries. Featuring a sleek and durable structure, this model offers a larger working area and exceptional precision for engraving intricate designs. The adjustable marking range, up to 110x110mm, allows customization based on various project requirements, making it ideal for engraving large jewelry pieces and metal components.

Equipped with a high-speed galvanometer scanning system, it ensures smooth, stable, and accurate laser marking performance. The fiber laser source delivers consistent output with low power consumption and a lifespan of up to 100,000 hours, providing excellent reliability. Perfect for jewelry manufacturers, hardware industries, and artisans seeking efficiency, accuracy, and long-term performance in laser engraving.

FEATURES

- Good Stability & Fast Speed

The laser marking machine adopts a Jinhaichuang high-speed scanning galvanometer and a wavelength optical focusing field mirror, ensuring excellent stability and fast marking speed.

- Integrated Design

It features a compact structure, low power consumption, long service life, and high efficiency. The system is maintenance-free, uses no consumables, and supports both air and water cooling, making it convenient and reliable for continuous operation.

- Wide Range of Use

Capable of marking text, graphics, QR codes, serial numbers, and portrait images, this machine is ideal for diverse applications in jewelry, tools, and metal accessories.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
Model Number	BTS-VLEM-FLM100
Laser Power	20W/ 30W/ 50W/ 100W
Laser Repetition Frequency	1-4000 KHz
Marking Range	70*70 mm/ 100*100 mm (option)
Marking Depth	1~5 mm
Marking Speed	≤8000 mm/s
Repeatability	+/-0.002 mm
Minimum Line Width	0.01 mm
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

3D PRINTING

3D RESIN PRINTERS

TYPE BTS-RP-J100/J150

The Bitsun 3D Resin Printer is specifically designed for creating high-precision jewelry wax molds, suitable for both castable and non-castable materials. Utilizing advanced UV resin printing technology, it enables jewelers to produce intricate designs with remarkable accuracy and smooth surface finishes. This innovation replaces multiple traditional manufacturing steps, allowing direct fabrication of complex jewelry structures quickly and efficiently.

With its stable performance, fine detail resolution, and user-friendly interface, the Bitsun 3D Resin Printer ensures seamless operation for professionals and beginners alike. It significantly reduces production time and cost while maintaining outstanding model quality. Ideal for jewelry designers, mold makers, and small-scale manufacturers seeking precision, efficiency, and reliability in modern jewelry prototyping and casting applications.

User-Friendly **Operation**

High Precision **Technology**

Durability & **Reliability**

SPECIFICATION		
Model Number	BTS-RP-J100	BTS-RP-J150
Power source	110/ 220v 50/60Hz 200w	110/ 220v 50/ 60Hz 200w
Build Envelope	L108* W60* H120mm	L144* W81* H120mm
Native Pixel	43 µm	56 µm
Resolution	2560*1440	2560*1440
Light source	Industrial UV LED	Industrial UV LED
Layer thickness	1-50 µm	1-50 µm
Printing speed	10mm/h	10mm/h
File format	STL/SLC	STL/SLC
Interface	USB	USB
Materials	Resin Wax	Resin Wax
Software	WIN7	WIN7
Dimension	380*380*660 mm	380*380*660 mm
Weight	35 kg	35 kg

3D PRINTING

JEWELRY WAX 3D PRINTERS

BITSUN

TYPE BTS-JWP-W100

The Bitsun Jewelry Wax 3D Printer is designed for high-precision jewelry design and uses Castable 50% Wax Resin, a blend of wax and photosensitive resin that closely mimics real wax texture. It ensures 100% ash-free combustion, making it ideal for direct casting without residue. With its high wax content, the printed models can be cast directly into gold, silver, platinum, copper, and karat gold with flawless results.
This printer is especially suited for creating large-sized jewelry pieces with smooth, detailed surfaces and exceptional dimensional accuracy, providing jewelers with reliable and efficient performance for professional-grade casting applications.

FEATURES

▶ 100% Lost Wax Casting
The Bitsun 3D Wax Printer delivers high-resolution printing with fine details up to 0.2mm, perfectly meeting the demanding requirements of precision jewelry design.
▶ Fast Printing Speed
Engineered for long-term stability and mass production, it uses a Texas DMD control chip and high-end rail module to ensure exceptional accuracy and reliability. The advanced UV light source provides a lifespan of over 20,000 hours, ensuring consistent performance.
▶ Efficiency and Ease of Use
The Bitsun 3D Jewelry Printer features a simple, integrated design with an intuitive interface for one-click printing. Material replacement takes less than two minutes, offering outstanding convenience and productivity for professional jewelers.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
Model	BTS-JWP-W100
DLP resolution	2560*1440
X/Y pixel	43 μm
Light source	UV LED 405nm Texas
Print layer thickness	0.025-0.1 mm
Forming size	108mm* 60mm* 120mm
Data format	STUSLC
Machine power	1 Phase 220V, 50Hz, 350W
Printing speed	15-28 mm/h

3D PRINTING

JEWELRY RESIN 3D PRINTER

BITSUN

TYPE BTS-JRP-4K SERIES

The Bitsun Jewelry Resin 3D Printer features a 4K high-resolution vertical design, offering a larger printing format and superior precision compared to standard desktop 3D printers. This ensures exceptionally fine details and smooth surfaces on every printed model. Ideal for creating intricate jewelry pieces such as rings, pendants, bracelets, and other complex designs, it also supports high-precision dental mold customization. Combining speed, stability, and accuracy, the Bitsun 3D printer is the perfect choice for jewelry designers and manufacturers seeking professional-grade results with consistent quality and outstanding detail reproduction.

FEATURES

▶ High Resolution

Equipped with a 4K industrial-grade ultra-high-resolution projection optical engine, this printer delivers clearer projected images with a resolution of 3840×2160, ensuring exceptional printing accuracy and fine detail.

▶ Large Format Print Size

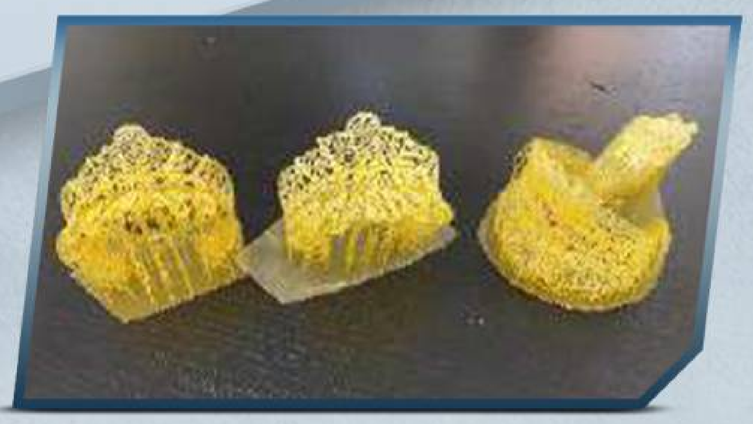
With a printing area of 192mm × 108mm × 120mm, it can produce 30–50 models simultaneously, enabling mass production and greater efficiency — ideal for medium and large jewelry manufacturers.

▶ Swing Trough System

During operation, the swinging trough aids resin separation and cushions the stripping process, improving stability and ensuring smooth, high-quality finishes on every print.

▶ Remote Monitoring

A remote monitoring system allows users to track the printing process and machine status in real time without needing to stay beside the printer.



High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION				
Model number	BTS-JRP-4K200	BTS-JRP-4K250	BTS-JRP-4K200W	BTS-JRP-4K250W
DLP resolution	3840*2160	3840*2160	3840*2160 (4K)	3840*2160 (4K)
Pixel	50 μm	65 μm	50 μm	65 μm
Power	800W	800W	1 phase 220V, 50Hz, 350W	1 phase 220V, 50Hz, 350W
Machine size	620mm* 620mm* 1600mm	620mm* 620mm* 1600mm	-	-
Layer thickness	-	-	0.025-0.1mm	0.025-0.1mm
Forming size	-	-	192* 108* 150 mm	250* 140* 150 mm
Printing speed	-	-	15-28 mm/h	15-28 mm/h
File format	-	-	STL/ SLC	STL/ SLC
Light source	-	-	UV LED 405mm Texas Instruments DMD chip	UV LED 405 mm Texas Instruments DMD Chip
Materials	-	-	Pewter Castable Materials	Pewter Castable Materials

ROLLING MILL

CONTINUOUS SHEET ROLLING MACHINE

BITSUN

TYPE BTS-CSRM-LY5D/LY6D

Durability & **Reliability**

User-Friendly **Operation**

High Precision **Technology**

The Bitsun Continuous Sheet Rolling Machine is designed for efficient, one-time production of gold, silver, platinum, and palladium sheets for the jewelry industry. Equipped with five to six synchronized roller sets, it enables continuous pressing to achieve the desired sheet thickness in a single pass. Unlike traditional electric rolling mills that require multiple steps, this advanced system delivers superior efficiency, precision, and surface uniformity. Its high-performance motor and stable rolling mechanism significantly reduce labor intensity and production time, making it an ideal solution for mass production in professional jewelry manufacturing environments seeking speed, consistency, and cost-effectiveness.

FEATURES

- Multiple Rollers Work Simultaneously

Equipped with 5–6 sets of rollers that press and roll the material together, allowing the sheet to be formed in one pass within a short time. This design ensures exceptional efficiency and high productivity.

- Infrared Sensor

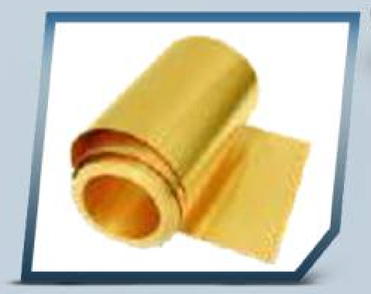
An infrared detection system automatically stops the rolling process when no material is detected, preventing damage and ensuring safe, precise operation.

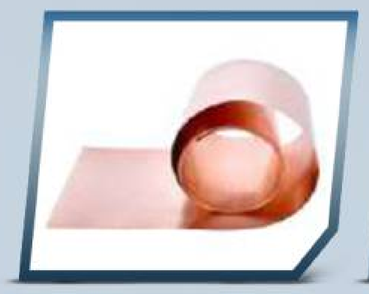
- Remote Feeding System

Unlike traditional rolling mills, this machine features remote feeding control, eliminating the need for manual input. This greatly reduces the risk of injury and makes operation safer and more convenient.

- Automatic Winding System

Equipped with automatic rewinding and unwinding devices, the system handles the material automatically once it is inserted into the slot, ensuring smooth and continuous production.





SPECIFICATION		
Model	BTS-CSRM-LY5D	BTS-CSRM-LY6D
Power supply	380V	380V
Power	7.5KW	4.5KW
Final shaft size (D*L)	120*80mm	140*210mm
Largest thickness	5mm	5mm (Gold)
Thinnest sheet thickness	5mm (Gold)	5mm
Optimum sheet width	Within a 30mm	Within a 60mm
Speed	0-18 RPM (adjustable)	0-12 m/min
Roll passes	5 groups	6 groups
Overall dimension	1230* 680* 1250 mm	3500* 1150* 1520 mm
Machine weight	700kg	4500kg

ROLLING MILL

CONTINUOUS WIRE ROLLING MACHINE

TYPE BTS-CWRM-20WDM

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

DESCRIPTION

The Bitsun Continuous Wire Rolling Machine is designed for the one-time rolling of gold, silver, platinum, and palladium wires used in the jewelry industry. With its continuous electric drive system, the machine allows multiple rollers to work simultaneously, ensuring the wire reaches the desired thickness and diameter in a single process. This not only improves production efficiency but also significantly reduces labor intensity and time. Built with high-precision rollers and stable performance, the Bitsun rolling machine ensures uniform wire output, making it an ideal choice for professional jewelry manufacturers seeking speed, consistency, and quality.

FEATURES

- Efficient Production

Equipped with 20 sets of rollers working simultaneously, the Bitsun Continuous Sheet Rolling Machine achieves one-time forming with wire diameters ranging from 6mm to 1.1mm, customizable to specific requirements.

- Zero Material Loss

The high-quality, smooth-surfaced rollers ensure that wires are not scratched or damaged during pressing, resulting in no material loss and maintaining product integrity.

- Remote Control Operation

The threading process is controlled via remote operation, providing greater convenience, precision, and safety during use.

- Automatic Winding & Rewinding

Featuring a high degree of automation, the machine can automatically collect and rewind wires, significantly reducing labor intensity and improving production efficiency.

SPECIFICATION	
Model number	BTS-CWRM-20WDM
Type	Continuous Wire Rolling machine
Power source	380V
Power	11 kw
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)	6-1.1 mm
Max rolling width	60 mm
Dimensions (mm)	3300*830*1800
Weight (kg)	2200

ROLLING MILL

ROLLING MACHINE

TYPE BTS-RM-YX-5P/7.5P-S250/7.5P-S200

Bitsun Rolling Machines are designed to meet various width and thickness requirements for metal rolling. They are widely used in producing semi-finished jewelry pieces and gold artworks with exceptional precision. The high-hardness roller material ensures each sheet is perfectly flat and evenly thick. Equipped with an emergency stop safety system, the machine offers reliable operator protection.
Bitsun rolling machines can roll different precious metals such as gold, silver, platinum, and palladium without excessive flash or material loss. Featuring high speed, precision performance, and automatic lubrication, they provide efficient, stable, and long-lasting operation suitable for professional jewelry workshops.

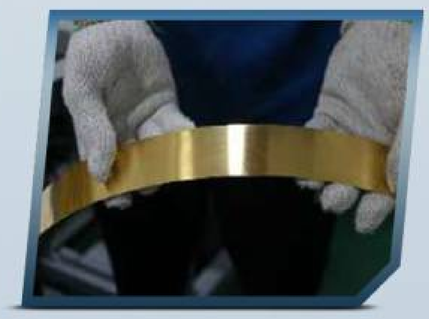
FEATURES

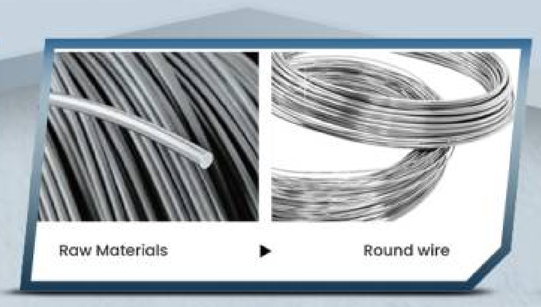
- The machine is made with high-hardness roller materials, offering a solid and compact structure, low noise, and easy operation while requiring minimal space.
- It uses synchronous link gears to ensure uniform metal thickness and high product accuracy during the rolling process.
- The multi-drive system combines different drive structures to maintain stable speed and prevent jamming.
- A thick and heavy machine body enhances stability during continuous operation.
- Each component is manufactured with strict precision control, allowing interchangeable parts and quick maintenance.
- The mirror rolling function enables metals to achieve a smooth, reflective surface finish.
- Equipped with an automatic lubrication system, eliminating the need for manual oiling and ensuring consistent performance.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**





SPECIFICATION			
Model number	BTS-RM-YX-5P	BTS-RM-7.5P-S250	BTS-RM-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

ROLLING MILL

ROLLING MACHINE

TYPE BTS-RM-YBP-10P

Bitsun Rolling Machines are designed to meet various width and thickness requirements for metal rolling. They are widely used in producing semi-finished jewelry pieces and gold artworks with exceptional precision. The high-hardness roller material ensures each sheet is perfectly flat and evenly thick. Equipped with an emergency stop safety system, the machine offers reliable operator protection. Bitsun rolling machines can roll different precious metals such as gold, silver, platinum, and palladium without excessive flash or material loss. Featuring high speed, precision performance, and automatic lubrication, they provide efficient, stable and long-lasting operation suitable for professional jewelry workshops.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model number	BTS-RM-YBP-10P
Type	10P Four roller sheet rolling machine
Power source (V)	380
Power (kw)	7.5
Roller size (D*L mm)	Large shaft: 180*180; Small shaft: 48*180
Thickness (mm)	0.008~0.3
Revolving speed (rpm)	0~22 Adjustable speed
Lubricating system	Automatic lubricating oil supply
Max rolling width (mm)	100
Wire rolling size (mm)	/
Dimensions (mm)	250*1020*1520
Weight (kg)	820

ROLLING MILL

ROLLING MACHINE

TYPE BTS-RM-2YXP-10P

Bitsun Rolling Machines are designed to meet various width and thickness requirements for metal rolling. They are widely used in producing semi-finished jewelry pieces and gold artworks with exceptional precision. The high-hardness roller material ensures each sheet is perfectly flat and evenly thick. Equipped with an emergency stop safety system, the machine offers reliable operator protection.

Bitsun rolling machines can roll different precious metals such as gold, silver, platinum, and palladium without excessive flash or material loss. Featuring high speed, precision performance, and automatic lubrication, they provide efficient, stable and long-lasting operation suitable for professional jewelry workshops.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model number	BTS-RM-2YXP-10P
Type	10P Double-head rolling machine
Power source (V)	380
Power (kw)	7.5
Roller size (D*L mm)	120*200
Thickness (mm)	0.1~11
Revolving speed (rpm)	0~22 double-speed
Lubricating system	Automatic lubricating oil supply
Max rolling width (mm)	50
Wire rolling size (mm)	14~0.8mm (Customized)
Dimensions (mm)	980*650*1450
Weight (kg)	980

ROLLING MILL

ROLLING MACHINE

TYPE BTS-RM-5.5P/7.5P

Bitsun Rolling Machines are designed to meet various width and thickness requirements for metal rolling. They are widely used in producing semi-finished jewelry pieces and gold artworks with exceptional precision. The high-hardness roller material ensures each sheet is perfectly flat and evenly thick. Equipped with an emergency stop safety system, the machine offers reliable operator protection.

Bitsun rolling machines can roll different precious metals such as gold, silver, platinum, and palladium without excessive flash or material loss. Featuring high speed, precision performance, and automatic lubrication, they provide efficient, stable and long-lasting operation suitable for professional jewelry workshops.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model number	BTS-RM-5.5P	BTS-RM-7.5P
Type	5.5P Tungsten steel sheet rolling machine B	7.5P Tungsten steel sheet rolling machine
Power source (V)	380	380
Power (kw)	4	5.5
Roller size (D*L mm)	Tungsten steel 110*80	Tungsten steel 120*100
Thickness (mm)	0.03~7	0.03~11
Revolving speed (rpm)	12	12
Lubricating system	Automatic lubricating oil supply	Automatic lubricating oil supply
Max rolling width (mm)	50	70
Wire rolling size (mm)	/	/
Dimensions (mm)	780*540*1470	820*450*1470
Weight (kg)	400	400

ROLLING MILL

ROLLING MACHINE

TYPE BTS-RM-YP-10PZQ/12PZQ

Bitsun Rolling Machines are designed to meet various width and thickness requirements for metal rolling. They are widely used in producing semi-finished jewelry pieces and gold artworks with exceptional precision. The high-hardness roller material ensures each sheet is perfectly flat and evenly thick. Equipped with an emergency stop safety system, the machine offers reliable operator protection. Bitsun rolling machines can roll different precious metals such as gold, silver, platinum, and palladium without excessive flash or material loss. Featuring high speed, precision performance, and automatic lubrication, they provide efficient, stable and long-lasting operation suitable for professional jewelry workshops.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION

Model number	BTS-RM-YP-10PZQ	BTS-RM-YP-12PZQ
Type	10P enhanced sheet rolling machine	12P Enhanced sheet rolling machine
Power source (V)	380	380
Power (kw)	7.5	9
Roller size (D*L mm)	140* 180	150* 210
Thickness (mm)	0.1~28	0.1~25
Revolving speed (rpm)	18	16
Lubricating system	Automatic lubricating oil supply	
Max width	60	80
Dimensions (mm)	1030*715*1350	1130*775*1400
Weight (kg)	700	980

ROLLING MILL

ROLLING MACHINE

TYPE BTS-RM-YP-10PZQ-B/12PZQ-B

Bitsun Rolling Machines are designed to meet various width and thickness requirements for metal rolling. They are widely used in producing semi-finished jewelry pieces and gold artworks with exceptional precision. The high-hardness roller material ensures each sheet is perfectly flat and evenly thick. Equipped with an emergency stop safety system, the machine offers reliable operator protection.

Bitsun rolling machines can roll different precious metals such as gold, silver, platinum, and palladium without excessive flash or material loss. Featuring high speed, precision performance, and automatic lubrication, they provide efficient, stable and long-lasting operation suitable for professional jewelry workshops.

High Precision **Technology**

Durability & **Reliability**

User-Friendly **Operation**

SPECIFICATION		
Model number	BTS-RM-YP- 10PZQ-B	BTS-RM-YP-12PZQ-B
Type	10P Automatic sheet rolling machine	12P Automatic sheet rolling machine
Power source (V)	380	380
Power (kw)	7.5	9
Roller size (D*L mm)	140* 180	150*210
Thickness (mm)	0.05~28	0.05~25
Revolving speed (rpm)	0~24 Adjustable speed	0~24 Adjustable speed
Lubricating system	Automatic lubricating oil supply	
Max width	60	80
Dimensions (mm)	1250*1160*1350	1320*1200*1400
Weight (kg)	620	650

ROLLING MILL

ROLLING MACHINE

TYPE BTS-RM-20A/30A

Bitsun Rolling Machines are designed to meet various width and thickness requirements for metal rolling. They are widely used in producing semi-finished jewelry pieces and gold artworks with exceptional precision. The high-hardness roller material ensures each sheet is perfectly flat and evenly thick. Equipped with an emergency stop safety system, the machine offers reliable operator protection.

Bitsun rolling machines can roll different precious metals such as gold, silver, platinum, and palladium without excessive flash or material loss. Featuring high speed, precision performance, and automatic lubrication, they provide efficient, stable and long-lasting operation suitable for professional jewelry workshops.

High Precision **Technology**

Durability & **Reliability**

User-Friendly **Operation**

SPECIFICATION		
Model number	BTS-RM-20A	BTS-RM-30A
Type	20P Sheet rolling machine	30P Sheet rolling machine
Power source (V)	380	
Power (kw)	15	22
Roller size (D*L mm)	200*300	200*300
Thickness (mm)	30	33
Revolving speed (rpm)	0~12	0~10
Lubricating system	Automatic lubricating oil supply	
Max width	200	200
Dimensions (mm)	1630*770*1640	1630*770*1640
Weight (kg)	1800	2000

CHAIN WEAVING

JEWELRY CHAIN MAKING MACHINE

TYPE BTS-JCMM

The Bitsun Jewelry Chain Making Machine is designed for creating high-quality gold, silver, platinum, and carat gold chains with uniform link patterns. The machine spirals the metal thread before cutting, ensuring consistent and precise results. Equipped with an advanced programmable torsion system, it allows users to design and produce various chain styles effortlessly. Its versatility makes it ideal for different jewelry production requirements.

This model includes features such as a second air blower, electronic speed regulator with brake, low-voltage lamp, and a chain density sensor, ensuring smooth operation and safety. With its user-friendly interface, high flexibility, and excellent performance, the Bitsun chain-making machine delivers exceptional quality and efficiency in jewelry manufacturing.

High Precision **Technology**

Durability & **Reliability**

User-Friendly **Operation**

SPECIFICATION	
Model number	BTS-JCMM
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

CHAIN WEAVING

ROPE CHAIN MAKING MACHINE

TYPE BTS-RCMM

The Bitsun Rope Chain Making Machine is designed for producing elegant rope and snail chains made from gold, silver, copper, karat gold, and stainless steel. Built for speed and precision, it features an auxiliary motor integrated with the main divider, allowing independent speed adjustment for smooth rotation during chain production. This ensures consistent performance and extended machine lifespan.

Its modular construction allows for easy maintenance and part replacement, while its advanced system enables the creation of various jewelry designs, including bangles, rings, and pendants. Ideal for both small-scale and industrial jewelry manufacturing, the Bitsun Rope Chain Making Machine delivers durable, high-quality chains with intricate patterns and perfect symmetry. Multiple models are available to meet different production needs, ensuring versatility and superior efficiency in every operation.

High Precision **Technology**

Durability & **Reliability**

User-Friendly **Operation**

SPECIFICATION	
Model	BTS-RCMM
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

CHAIN WEAVING

ROPE CHAIN MAKING MACHINE

BITSUN

TYPE BTS-RCMM-CCMM/BOCMM

The Bitsun Rope Chain Making Machine is designed for producing elegant rope and snail chains made from gold, silver, copper, karat gold, and stainless steel. Built for speed and precision, it features an auxiliary motor integrated with the main divider, allowing independent speed adjustment for smooth rotation during chain production. This ensures consistent performance and extended machine lifespan.

Its modular construction allows for easy maintenance and part replacement, while its advanced system enables the creation of various jewelry designs, including bangles, rings, and pendants. Ideal for both small-scale and industrial jewelry manufacturing, the Bitsun Rope Chain Making Machine delivers durable, high-quality chains with intricate patterns and perfect symmetry. Multiple models are available to meet different production needs, ensuring versatility and superior efficiency in every operation.

BTS-RCMM-BOCMM

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model	BTS-RCMM-CCMM	BTS-RCMM-BOCMM
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	0.8-1.5mm
Speed	/	400rpm
Max. working pressure	/	/
Max. chain diameter	/	/
Dimension	600*700*1680mm	800*520*128mm
Weight	180KG	152KG

CHAIN WEAVING

ROPE CHAIN MAKING MACHINE

BITSUN

TYPE BTS-RCMM-BICMM/CHM/CFM

The Bitsun Rope Chain Making Machine is designed for producing elegant rope and snail chains made from gold, silver, copper, karat gold, and stainless steel. Built for speed and precision, it features an auxiliary motor integrated with the main divider, allowing independent speed adjustment for smooth rotation during chain production. This ensures consistent performance and extended machine lifespan.

Its modular construction allows for easy maintenance and part replacement, while its advanced system enables the creation of various jewelry designs, including bangles, rings, and pendants. Ideal for both small-scale and industrial jewelry manufacturing, the Bitsun Rope Chain Making Machine delivers durable, high-quality chains with intricate patterns and perfect symmetry. Multiple models are available to meet different production needs, ensuring versatility and superior efficiency in every operation.

BTS-RCMM-CHM

BTS-RCMM-CFM

BTS-RCMM-BICMM

User-Friendly **Operation**

High Precision **Technology**

Durability & **Reliability**

SPECIFICATION			
Model number	BTS -RCMM-BICMM	BTS -RCMM-CHM	BTS -RCMM-CFM
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	500 times/ min (Adjustable speed)	1000rpm/min	0-25000rpm
Max. working pressure	/	15 tons	/
Max. chain diameter	/	/	12mm
Dimension	750*800*1600mm	70x75x162cm	70x85x150cm
Weight	124KG	610kg	350kg

MINTING PRESS

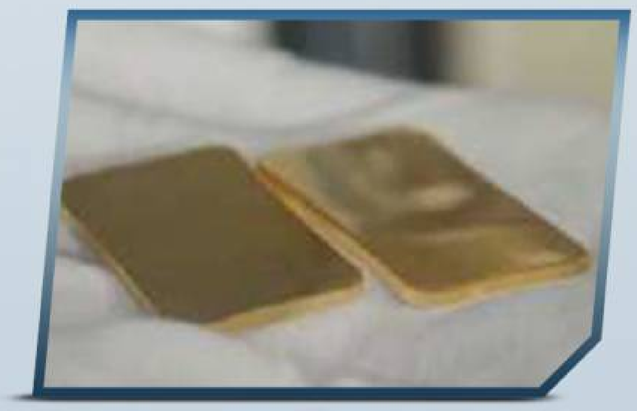
HYDRAULIC STAMPING PRESS

TYPE BTS-HSP SERIES

The Bitsun Hydraulic Stamping Press (20 Ton) is engineered for embossing marks, texts, and logos onto precious metal bars such as gold, silver, and platinum, as well as other metals. Using advanced hydraulic pressure technology, the machine delivers consistent and precise stamping performance. Its hydraulic cylinder generates powerful compressive force, enabling smooth and accurate marking without damaging the metal surface. The up-and-down motion speed of 68mm/s ensures fast and efficient operation, making it ideal for mass production. With automatic stamping functions, users can easily operate the press through a simple control interface. Both pressure and stamping speed are adjustable, allowing optimization for different materials. Equipped with a 3.75kW motor, this machine offers high efficiency, low energy consumption, and excellent durability—making it perfect for professional jewelry manufacturing and refining facilities.

FEATURES

- Adopts a four-column and three-plate structure design, ensuring high planar accuracy of the movable plate and excellent vertical precision through a four-axis precision linear self-lubricating guide sleeve.
- Equipped with imported high-quality hydraulic and electrical components, offering low noise, high performance, and stable operation during continuous use.
- Features a simple and user-friendly interface — pressure, stroke, and closing height can be easily adjusted according to the specific stamping requirements.
- Designed for safety and efficiency, it supports two-hand operation, includes emergency stop and inch movement functions, as well as an infrared hand protection system. Optional three-sided safety cover provides additional operator protection during use.



User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION			
Model number	BTS-HSP-HLP5	BTS-HSP-20TS	BTS-HSP-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

MINTING PRESS

COIN STAMPING

TYPE BTS-CS

The Bitsun 100 Ton Coin Stamping Hydraulic Press is a powerful and versatile machine designed for a wide range of metal forming applications, including coin minting, embossing, shaping, punching, blanking, and deep drawing. It utilizes advanced hydraulic compression technology to apply precise force between upper and lower dies, ensuring detailed and uniform stamping results on metals.
With a pressing capacity of 100 tons, this machine is ideal for both heavy industrial production and small-scale minting operations. Its stable hydraulic system, low noise operation, and adjustable pressure control provide high efficiency, safety, and precision. The Bitsun Coin Stamping Press is a reliable choice for producing coins, medals, and other high-value metal products with superior surface detail and consistency.

FEATURES

- Allows users to stamp logos, texts, and various symbols on precious metal coins and bars. With this hydraulic press machine, branding your products becomes easier and more precise across different industries.
- The system provides a maximum pressure of 25MPa, enabling users to adjust the stamping pressure according to the required depth and pressing speed.
- The 100-ton hydraulic press operates with high efficiency, significantly enhancing production speed and consistency.
- Productivity increases by up to 40%, ensuring that production demands can be met quickly and reliably, making it an ideal solution for both industrial and small-scale applications.

User-Friendly Operation

Durability & Reliability

High Precision Technology

SPECIFICATION				
Model		BTS-CS		
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

MINTING PRESS

SERVO COIN PRESS

TYPE BTS-SCP

The Bitsun 300 Ton Servo Coin Press is a high-performance machine designed for precision metal forming and high-volume production. Equipped with advanced servo-hydraulic technology, it delivers stable, powerful, and accurate pressing for applications such as coin minting, forging, molding, punching, and shaping. With a maximum pressing capacity of 300 tons, this press efficiently handles metals like gold, silver, copper, aluminum, titanium, and iron.
Its servo control system ensures precise regulation of pressure, stroke, and speed, providing consistent results for complex coin designs. Operating with energy consumption between 4kW and 11kW, the Bitsun Servo Coin Press offers a perfect balance of power efficiency and production speed. Built with durability and reliability in mind, it is ideal for modern minting facilities that demand both high accuracy and cost-effective operation.

FEATURES

- Servo Motor Driven System

The Bitsun Servo Coin Press is equipped with a servo motor drive system that provides excellent speed control and stable operation. This advanced feature ensures smooth machine movement and significantly reduces noise levels during operation.

- Energy-Saving Performance

This model is widely favored for its outstanding energy efficiency. The innovative servo-driven pump technology minimizes energy consumption, making it one of the most cost-effective and environmentally friendly presses available.

- Enhanced Productivity

With its servo hydraulic control system, the Bitsun Servo Coin Press delivers exceptional performance and efficiency. Compared to traditional CNC pressing machines, this model can increase overall productivity by up to 40%, helping manufacturers achieve faster output with superior precision and reliability.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION				
Model		BTS-SCP		
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

MINTING PRESS

AUTOMATIC COIN STAMPING MACHINE

TYPE BTS-ACSM-AF150T/AF300T

The Bitsun Automatic Coin Stamping Machine is a high-capacity, fully automated system designed for precision and speed in coin minting operations. With a simple flip of the main switch, users can select manual, semi-automatic, or fully automatic modes to suit production needs.
The intelligent automation system automatically feeds blank coins, stamps them with precise pressure, and ejects the finished coins efficiently, maintaining consistent quality with every cycle.
This rapid stamping process is completed within seconds, making it ideal for high-volume production environments. Built with advanced hydraulic control, the machine ensures stable pressure, preventing deformation or defects on coins and ingots. The Bitsun Automatic Coin Stamping Machine offers exceptional efficiency, durability, and reliability, helping manufacturers achieve faster output with perfect stamping accuracy.

FEATURES

- The stamping process of the Bitsun Automatic Coin Stamping Machine is fully automated, where the machine independently arranges, selects, stamps, and removes coins during production. Users can also choose between manual, semi-automatic, and automatic operation modes for flexible production control.
- The stamping speed is extremely fast—each coin is completed in less than 4 seconds, making it ideal for high-speed minting industries that require continuous and efficient production.
- The automatic counting system accurately tracks the number of stamped coins, eliminating the need for manual counting and preventing any miscalculations.
- Equipped with an intelligent sensor, the machine automatically stops if the blank coin slips or is not properly positioned in the die, ensuring safety, accuracy, and consistent production quality.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION				
Item		Unit	BST-ACSM-AF150T	BST-ACSM-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-R	mm	1694	1694
	H	mm	2521	2611
Motor power		Kw	11-4 level	15-4 level
Weight (Approx.)		kg	4300	5200

MINTING PRESS

AUTOMATIC COIN MINTING PRESS

TYPE BTS-ACMP-AH200T/AH300T/AH500T

The Bitsun Automatic Coin Minting Press features an intuitive operator panel with manual, semi-automatic, and automatic modes, allowing users to select the ideal setting for their production needs. Regardless of skill level, anyone can operate the machine with ease. Once the "Start" button is pressed, the automatic injector and feeding system picks and stamps coins within seconds. This fast and efficient process enables the minting of large batches of gold, silver, and copper coins or bars in just a few minutes—significantly reducing production time and cost.
The press is equipped with an adjustable pressure controller, ensuring precise stamping results. Built with durable, high-quality materials, the Bitsun Coin Minting Press guarantees long-term performance, easy maintenance, and excellent return on investment. The stamping dies are easily removable for quick cleaning and replacement after use, ensuring continuous, high-quality operation.

FEATURES

- The Bitsun Automatic Coin Minting Press is equipped with a smart sensor system that detects when there are no more materials for stamping. This powerful sensor automatically stops the machine to prevent the hydraulic press from striking an empty die, ensuring safety and protecting the equipment.
- The machine is designed for easy maintenance. The stamping dies can be quickly removed and replaced for cleaning, helping to maintain consistent performance and extend the overall service life of the machine.
- With its high-speed stamping process, the Bitsun coin press significantly reduces energy consumption, saving up to 40% more power compared to traditional systems—making it both efficient and environmentally friendly.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION				
ITEM		UNIT	BTS-ACMP-AH200T	BTS-ACMP-AH300T	BTS-ACMP-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/	190	210	215
	Returning	Mm/	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-R	Mm	1120	1340	1520
	H	Mm	2180	2340	2300
Motor power		kw	16	16	23
Weight (Approx.)		kg	2580	3620	6700

AUXILIARY

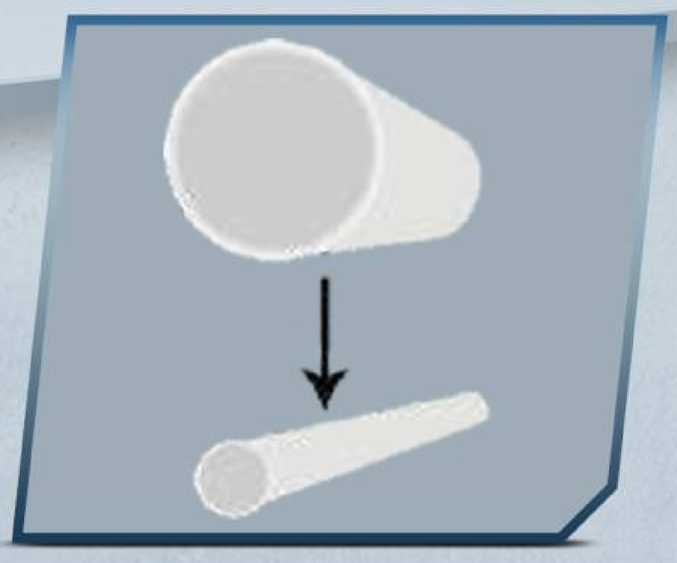
SINGLE LINE WIRE DRAWING MACHINE

TYPE BTS-SLWDM-1WDM/2WDM

The Bitsun Single Line Wire Drawing Machine is designed for precision metal wire reduction with high-speed performance. It ensures smooth, stable operation and excellent finish quality. Equipped with an automatic cable winding system, it's ideal for continuous wire drawing of gold, silver, copper, and other precious metals.

FEATURES

- The wire is drawn through a precision die to achieve a smaller diameter.
- Operates smoothly and stably without vibration.
- Fast drawing speed with an integrated cable winding function for a clean, efficient finish.



User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model number	BTS-SLWDM-1WDM	BTS-SLWDM-2WDM
Power source	3 phase 380V, 50/60Hz	3 phase 380V, 50/60Hz
Power	5.5 kw	5.5*2kw
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	0-20m/min	0-20m/min
Dimension	1400*800*1150mm	1400*800*1150mm
Weight	650kg	650kg
Cooling way	Automatic liquid cooling	Automatic liquid cooling

AUXILIARY

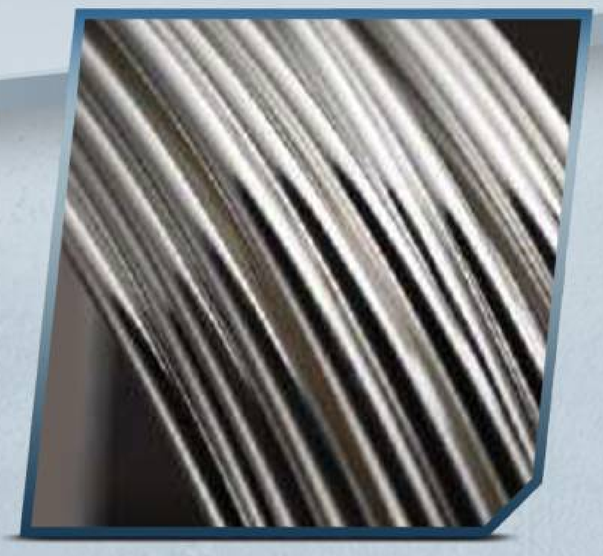
WIRE DRAWING MACHINE

TYPE BTS-WDM-6WDM/12WDM

The Bitsun Wire Drawing Machine is built for high-precision metal wire reduction with exceptional surface quality. Featuring advanced speed control, automatic winding, and a full cooling system, it ensures efficiency and durability. Ideal for processing gold, silver, copper, and other metals with consistent and smooth results.

FEATURES

- The wire drawing machine reduces thick wire into thinner wire with precise control of diameter, roundness, microstructure, and surface finish to meet reprocessing standards.
- High working efficiency with precision-made line wheels, carburized for superior wear resistance.
- Equipped with stepless speed motor, automatic winding, rewinding, and cooling system for stable performance.



User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION		
Model number	BTS-WDM-6WDM	BTS-WDM-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	2.2 mm→0.2mm	1.5 mm→0.2mm
Drawing speed	0-50m/min	0-50m/min
Dimension	1800*700*1230mm	1800*700*1230mm
Weight	370kg	390kg
Cooling way	Automatic liquid cooling	Automatic liquid cooling

AUXILIARY

TUBE DRAWING MACHINE

BITSUN

TYPE BTS-TDM-TDM3/TDM4

The Bitsun Tube Drawing Machine is designed for precision diameter reduction and wall drawing of metal tubes. With automatic speed control, return system, and stable clamping, it ensures smooth operation and high surface quality. Ideal for producing gold, silver, and copper tubes with consistent accuracy and excellent finish.

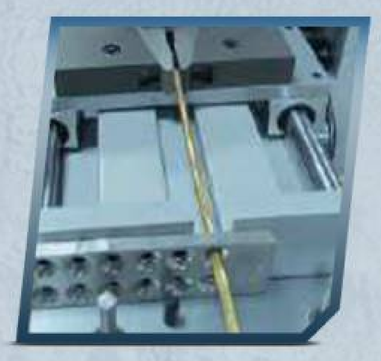
FEATURES

- Suitable for diameter reduction and wall thinning of tubular rods.
- Equipped with automatic speed regulation and automatic return function.
- Start-up clamping mechanism ensures stable pulling and smooth translation.
- Produces tubes with minimal dimensional error and excellent surface finish.

User-Friendly **Operation**

High Precision **Technology**

Durability & **Reliability**



SPECIFICATION		
Model number	BTS-TDM-TDM3	BTS-TDM-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

AUXILIARY

COIL MACHINE

TYPE BTS-CM-YC02

The Bitsun Coil Machine efficiently winds hollow or solid wires into precise spring-shaped coils. With automatic winding, compact design, and quiet operation, it ensures smooth performance and uniform coil roundness. Ideal for jewelry, electronics, and metalwork industries requiring consistent and accurate coil production.

FEATURES

- Specially designed for winding hollow and solid wires into spring shapes.
- Suitable for various metal coils with plastic deformation capability.
- Compact structure, space-saving, and low noise.
- Produces coils with uniform roundness and supports automatic winding.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
Model Number	BTS-CM-YC02
Power	400W
Voltage	220V, single-phase
Rotating speed	Adjustablespeed0-50r/min
Coil diameter	1~8mm
Dimensions	700*500*1100mm
Weight	71kg
Application	Less elastic coffin; wire coil forming

AUXILIARY

TUBE MAKING MACHINE

TYPE BTS-TMM-DHW-1/DHW-2

The Bitsun Tube Making Machine is designed for efficient and precise production of hollow metal tubes in various shapes and sizes. Engineered with advanced forming technology, it allows users to produce high-quality tubes made of gold, silver, copper, aluminum, and other precious metals. The machine ensures uniform wall thickness and smooth surface finish, making it ideal for applications in jewelry manufacturing, industrial components, and decorative designs.

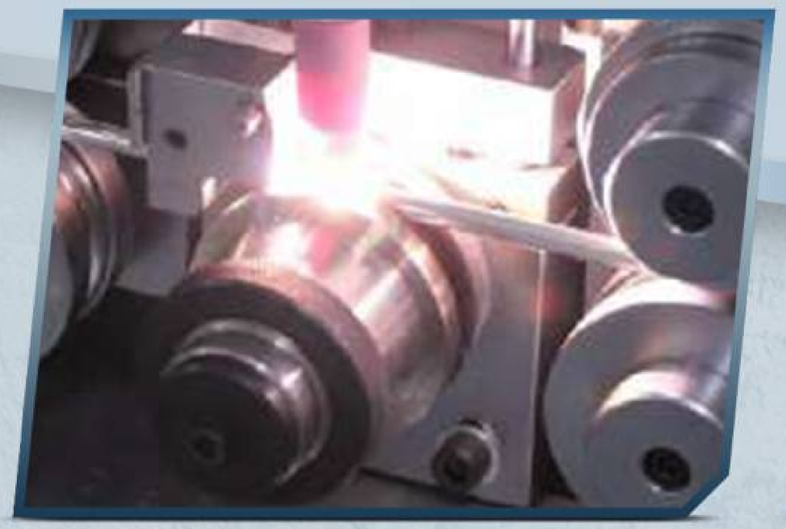
Equipped with a stable forming system and intelligent control panel, the Bitsun Tube Making Machine guarantees consistent performance, easy operation, and minimal maintenance. The use of durable materials and precision-engineered rollers ensures long-term stability and resistance to wear.

Whether for mass production or custom tube fabrication, this machine delivers outstanding accuracy and productivity. It supports various forming molds, allowing you to switch between different tube styles quickly. With its energy-efficient motor and automatic feeding system, the Bitsun Tube Making Machine combines speed, reliability, and cost-effectiveness, making it a trusted solution for professionals seeking high-quality metal tubing production.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**



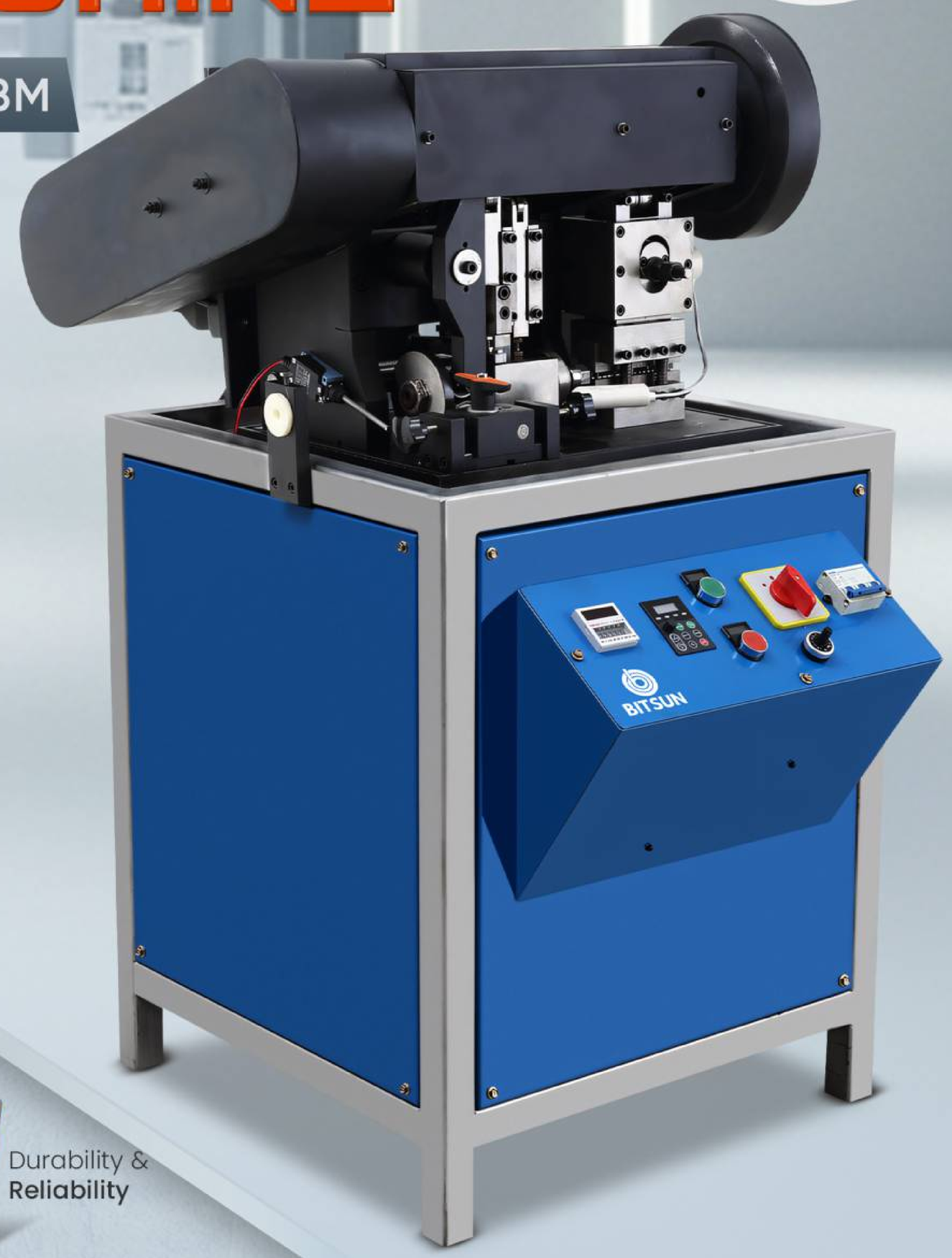
SPECIFICATION		
Model Number	BTS-TMM-DHW-1	BTS-TMM-DHW-2
Power source	3 phase 220V, 50/60Hz	3 phase 220V, 50/60Hz
Power	1.5w	4kw
Diameter	range 4 to 10mm	3.2mm (Customized)
Thickness	0.25-0.45mm	0.32 -0.5mm (Customized)
Efficiency	1000 -2000MM/MIN	1000 – 2000mm/min
Operating way	By switch control	By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

AUXILIARY

HOLLOW BALL MAKING MACHINE

BITSUN

TYPE BTS-HBMM-7BM/9BM/14BM



The Bitsun Hollow Ball Making Machine is designed for precision forming of various metal balls used in the jewelry and hardware industries. It can automatically hammer and shape balls ranging from 2mm to 14mm, including round, olive, abacus, and custom-shaped designs. This machine efficiently completes the entire process—from feeding to stamping and forming—with smooth, automated operation. Built with durable components and advanced control technology, it ensures consistent accuracy, stable performance, and long service life. Compact and easy to operate, the Bitsun Hollow Ball Making Machine offers high productivity, low maintenance, and superior quality output for professional metal forming applications.

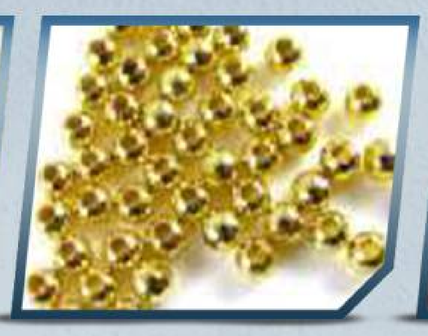
FEATURES

- The ball-making process is fast and efficient, capable of producing up to 120 pieces per minute.
- Mechanical feeding ensures high precision for every feeding operation.
- Utilizes a shaft-type transmission, with each ball pressed six times for uniform bead shaping.
- Can directly process tubes of any length or straightness.
- All components are heat-treated for enhanced durability and stability.
- Operates with low noise, no exhaust gas, no pollution, minimal wear, and an extremely low failure rate.
- Designed for convenience, featuring an easy feeding entrance that avoids line-eye issues during operation.

User-Friendly **Operation**

High Precision **Technology**

Durability & **Reliability**



SPECIFICATION			
Model number	BTS-HBMM-7BM	BTS-HBMM-9BM	BTS-HBMM-14BM
Power source	3phase380V,50/60Hz	3phase380V,50/60Hz	3phase380V,50/60Hz
Power	2.2kw	3.7kw	3.7kw
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	0.15~0.23mm	0.08~0.45mm	0.15~0.45mm
Max Speed	120pcs/min	120pcs/min	120pcs/min
Dimension	880*680*1480mm	880*680*1480mm	880*680*1480mm
Weight	250kg	250kg	250kg

AUXILIARY

HOLLOW BALL SPLITTING MACHINE

BITSUN

TYPE BTS-HBSM

The Bitsun Hollow Ball Splitting Machine is a precision tool designed specifically for the jewelry industry. It efficiently separates continuous strings of hollow metal beads into individual units with remarkable accuracy. This machine is suitable for processing gold, silver, copper, and stainless steel beads, ensuring clean cuts without damaging the bead surface. With its automatic operation, stable performance, and user-friendly design, it significantly improves production efficiency and consistency. Built with durable components and advanced engineering, the Bitsun Hollow Ball Splitting Machine guarantees reliable performance, long service life, and high-quality results in every production cycle.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
Machine name	Hollow Ball Splitting Machine
Cutting diameter	1.5-8mm
Application	Different shape
Control system	PLC control
Function	Automatic stop after no material

AUXILIARY

GRINDING MACHINE

TYPE BTS-GM-BGM15

The Bitsun Grinding Machine is a specialized tool designed for precision polishing and shaping in jewelry manufacturing. It efficiently grinds metal balls such as gold, silver, copper, and stainless steel into perfectly round forms, ensuring smooth surfaces and consistent sizes.

This high-performance machine guarantees uniform grinding, excellent stability, and low noise during operation. Built with durable components and advanced technology, the Bitsun Grinding Machine delivers long-lasting reliability and superior results. Ideal for producing decorative beads or jewelry components, it enhances production efficiency and maintains the highest quality standards in every grinding process.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
Model Number	BTS-GM-BGM15
Power	1.5kW
Voltage	3 phrase 380V
Application	Ball shape Grinding
Rotation speed	280r/min Weight: 140kg
Weight	140kg
Dimension	450*450*1200mm

AUXILIARY

BALL DIAMOND CUTTING MACHINE

BITSUN

TYPE BTS-BDCM-BC80/DBC85

The Bitsun Ball Diamond Cutting Machine is engineered to cut precious metal hollow balls with exceptional precision, creating a brilliant diamond-like sparkle. Using advanced diamond-cutting technology and 360-degree automatic rotation, the machine ensures smooth, symmetrical, and flawless surface finishes. It is ideal for processing gold, silver, copper, and other metal beads used in high-end jewelry production. Designed for efficiency and consistency, the Bitsun cutting system enhances the aesthetic appeal of every piece while reducing manual labor. Its durable structure and stable operation guarantee long service life and superior cutting performance for professional jewelry manufacturers.

FEATURES

- Comes with over 10,000 design options in its integrated software, allowing you to create endless ball designs to meet various production needs.
- Equipped with an LCD control panel for easy parameter setup, enabling full automation and precise control throughout the entire cutting process.
- Offers high precision and cutting speed, ensuring every ball is shaped accurately without errors.
- The finished balls produced by the Bitsun automatic diamond cutting machine feature a smooth and brilliant surface, achieving an elegant, polished appearance suitable for premium jewelry production.

User-Friendly **Operation**

High Precision **Technology**

Durability & **Reliability**

SPECIFICATION		
Model Number	BTS-BDCM-BC80	BTS-BDCM-DBC85
Voltage	220V	220V
Total power	4kw	6.5kw
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

AUXILIARY

RING AND BRACELET FORMING MACHINES

BITSUN

TYPE BTS-RABFM-RFM/BFM

The Bitsun Ring and Bracelet Forming Machine efficiently shapes rings and bangles with high precision and speed. Equipped with variable frequency control and multi-piece capacity, it enhances productivity while saving energy. Its low-noise, durable design ensures reliable, maintenance-free operation for jewelry manufacturers seeking smooth, high-quality results.

FEATURES

- Rapidly forms rings and bangles, replacing traditional manual methods;
- Can process 4–8 pieces simultaneously, significantly improving productivity;
- Features variable frequency speed control for higher efficiency and energy savings;
- Provides stepless speed adjustment with superior precision compared to gear systems;
- Ensures high reliability and low maintenance costs compared to DC speed regulation;
- Operates with low noise, similar to silent mode when idle.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

FREQUENCY conversion technology Saves 20% -30% energy.

PEDAL SWITCH Make the work more convenient and safe.

RUBBER TIRE MATERIAL High-quality rubber wheel, extremely durable.

SPECIFICATION		
Model Number	BTS-RABFM-RFM	BTS-RABFM-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

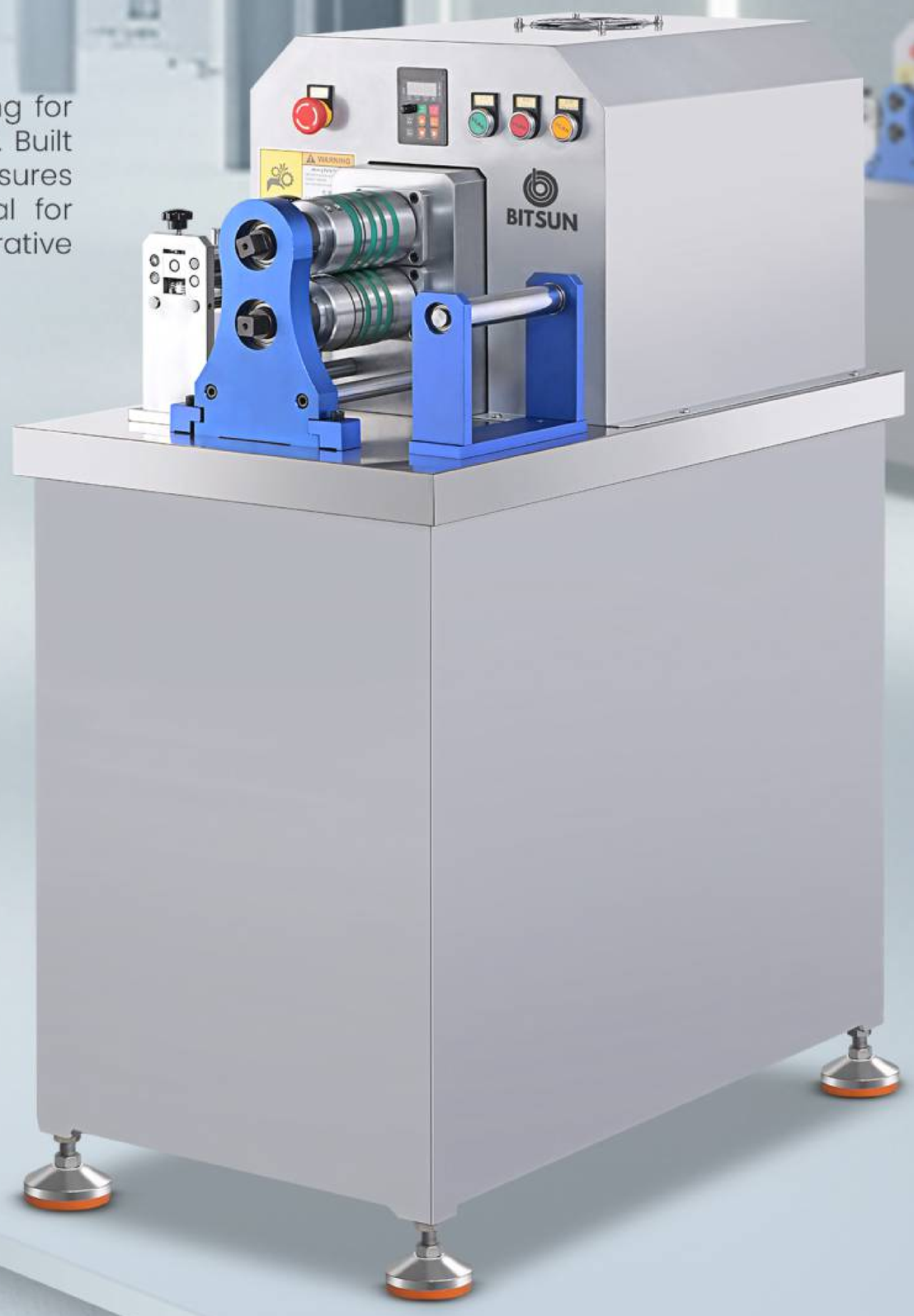
AUXILIARY

IRON SHEET CUTTING MACHINE

BITSUN

TYPE BTS-ISCM-SSM

The Bitsun Iron Sheet Cutting Machine delivers precision cutting for multiple metals with its advanced multi-knife shearing system. Built with heat-treated steel blades for durability and accuracy, it ensures smooth performance, low noise, and simple operation—ideal for high-efficiency metal fabrication in jewelry, industrial, and decorative applications.



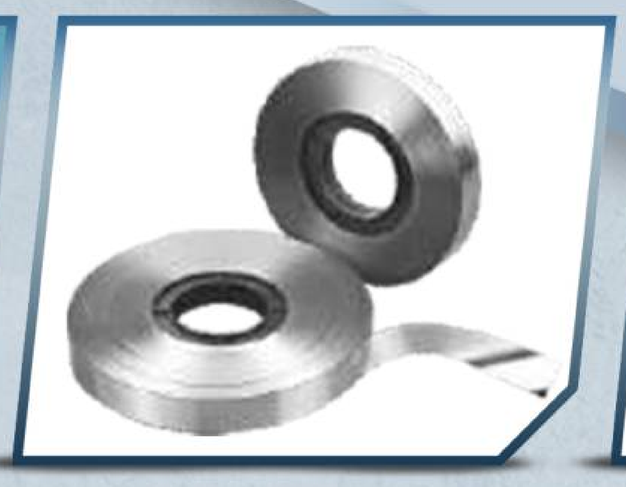
FEATURES

- The Bitsun Iron Sheet Cutting Machine features a multi-knife shearing unit designed to trim various metal plates with customized widths.
- The high-quality steel blades undergo 20-step heat treatment for superior hardness and sharpness, allowing precise cutting of K-gold, gold, silver, copper, aluminum, and more.
- Benefits include adjustable width, stable transmission, low noise, high automation, and easy, reliable operation.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**



SPECIFICATION	
Model Number	BTS-ISCM-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

AUXILIARY

MESH BELT FURNACE

BITSUN

TYPE BTS-MBF-AWF3.2/AWF4/AWF5

High Precision **Technology**

Durability & **Reliability**

User-Friendly **Operation**

The Bitsun Mesh Belt Furnace is an advanced heat treatment system designed to heat metal workpieces above their recrystallization temperature and then cool them under precise control. It operates in three key stages: annealing, recrystallization, and grain growth under ammonia gas protection. This process enhances metal ductility, strength, and surface quality.

The furnace is widely used for metal annealing, tempering, jewelry chain welding, and coin minting. In minting production, it softens precious metal coins and bars for acid washing and shaping preparation.

Built for durability and consistent performance, the Bitsun Mesh Belt Furnace ensures stable temperature distribution, high efficiency, and energy-saving operation. It is ideal for processing K-gold, silver links, and various precious metal components, significantly improving their machinability, electrical, and mechanical properties while maintaining surface integrity and precision.

SPECIFICATION			
Model number	BTS-MBF-AWF3.2	BTS-MBF-AWF4	BTS-MBF-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℃	950℃	950℃
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)

AUXILIARY

ANNEALING FURNACE

TYPE BTS-AF-AWF2

The Bitsun Annealing Furnace is engineered for precise heat treatment of precious metals and hardware components. With gas protection and advanced PID temperature control, it prevents oxidation and ensures bright, smooth surfaces. Its hydrogen system guarantees uniform heating and stable results, making it ideal for jewelry and metal processing industries.

FEATURES

- Specially designed for heat treatment of jewelry, hardware, and gold- silver-copper stamped parts.
- The entire heating process is carried out under gas protection to prevent oxidation, discoloration, and material loss, ensuring consistent surface quality.
- Equipped with a high-performance ammonia decomposition hydrogen system, PID intelligent temperature control, and a 24-hour timer switch.
- Supports precise quenching for various metals at preset temperatures.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

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

AUXILIARY

HIGH RESOLUTION JEWELRY 3D SCANNER

TYPE BTS-HRJS-5DS

The Bitsun High Resolution Jewelry 3D Scanner is the ideal solution for capturing ultra-precise 3D data of jewelry pieces with remarkable detail. This advanced scanner allows jewelers to record and store accurate digital models, streamlining the process of design, modification, and reproduction. With its high-speed scanning capability and exceptional resolution, it ensures every curve, gem, and engraving is reproduced flawlessly.

By integrating cutting-edge 3D scanning technology, Bitsun empowers jewelry manufacturers to move toward digital transformation, enabling faster customization and efficient production. The scanner not only reduces design time and labor costs but also improves consistency, creativity, and innovation in jewelry craftsmanship.

FEATURES

- Good Compatibility

With just one click, the Bitsun 3D scanner generates standard STL 3D files compatible with a wide range of CAD design software and 3D printers, ensuring seamless workflow integration.

- High Quality Data

Equipped with an industrial-grade blue light source, the scanner delivers strong anti-interference performance and exceptional accuracy, guaranteeing reliable and detailed scanning results.

- High Precision

Using a 16mm 5MP standard optical measurement lens module, it achieves intelligent data fusion with single-scan accuracy reaching 0.01mm, ideal for intricate jewelry pieces.

- Structured Blue Light Technology

Enhanced with contrast optimization, the structured blue light provides superior results when scanning complex geometries. The light source has an impressive lifespan of over 30,000 hours, ensuring long-term stable operation.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
Model Number	BTS-HRJS-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

AUXILIARY

DOT PEEN MARKING MACHINE

BITSUN

TYPE BTS-DPMM

The Bitsun Dot Peen Marking Machine is a software-controlled system where the marking needle moves precisely along the X and Y axes to engrave permanent marks on various materials. Powered by high-frequency electric impact, it creates clear, deep, and durable engravings.
Designed with an integrated and stable structure, this desktop machine offers fast marking speed, consistent depth, and supports slightly uneven surfaces.
It is widely used for marking metal parts, automotive and motorcycle components, instruments, machinery, and metal tags, making it an ideal solution for industrial identification and product traceability.

FEATURES

▶ Integrated Touch Screen System
Equipped with an industrial-grade 5-inch touch screen and built-in software, ensuring high stability, smooth control, and user-friendly operation without external devices.
▶ Advanced HEF Technology
Utilizes HEF technology, allowing accurate marking even on slightly uneven or curved surfaces, ensuring precise and consistent engraving quality.
▶ Independent Operation & Cost Efficiency
No need for a computer or air compressor, minimizing maintenance costs and simplifying the marking process for efficient daily use.
▶ EMC Compliance & Strong Software
Complies with EMC standards to prevent power interference and enhance system stability. The advanced software supports marking of text, numbers, logos, VIN codes, 2D codes, and variable data.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
Machine Name	Electric Dot Peen Marking Machine
Max Speed	40~50mm/s
Marking depth	140mm x 90mm
Marking area	5 inch*7inch (100higher)
Touch screen size	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

AUXILIARY

COIN RIMMING MACHINE

TYPE BTS-CRM CER3

The Bitsun Coin Rimming Machine is designed for precision edge rolling of coin blanks made from gold, silver, copper, platinum, and other precious metals before minting. The machine creates a perfectly rounded arc through extrusion and rolling, ensuring a uniform diameter across all coin sizes. This process effectively prevents the formation of burrs and edge defects, reducing the need for additional finishing steps and ensuring a smooth, high-quality surface on the final coins.

Bitsun offers both semi-automatic and fully automatic models to meet different production requirements. The fully automatic version delivers higher output and consistent performance, making it ideal for medium to large-scale coin manufacturing facilities. Meanwhile, the semi-automatic type provides a cost-effective solution for small and medium workshops, allowing efficient operation while minimizing labor and production costs.

With its durable structure, high precision, and easy-to-use interface, the Bitsun Coin Rimming Machine ensures reliable performance, enhances production efficiency, and maintains perfect consistency across every batch of coins.

FEATURES

- Compact Design

The semi-automatic coin rimming machine features a small and space-saving structure, making it ideal for workshops with limited space.

- Customizable Edge Styles

Users can easily change molds to create different edge patterns and shapes, providing flexibility for various coin designs.

- Cost-Effective Operation

Designed to be affordable and efficient, it's perfect for small to medium-sized coin factories or larger facilities with more staff.

- Fine Craftsmanship

With manual discharge control, this machine allows for more delicate workmanship, making it highly suitable for precious metal coin production.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Machine type	Semi-auto Coin Rimming Machine
Model	BTS-CRM-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 x W560 x H450 mm

AUXILIARY

FULL-AUTOMATIC RIMMING MACHINE

BITSUN

TYPE BTS-FARM-ACER3

The Bitsun Full-Automatic Rimming Machine is an advanced solution designed for high-efficiency coin edge forming. With a fully automated system integrating feeding, rolling, and trimming functions, it significantly reduces manual labor while ensuring precision and consistency. The machine supports multiple coin sizes through adjustable molds, providing excellent flexibility for various production needs. Ideal for minting industries that prioritize speed, accuracy, and smooth edge finishes, this machine ensures perfect rimming results with minimal operator intervention.

FEATURES

- High Efficiency

The machine operates fully automatically, handling feeding, rolling, and trimming after simple setup, saving time and labor.

- Multiple Sizes

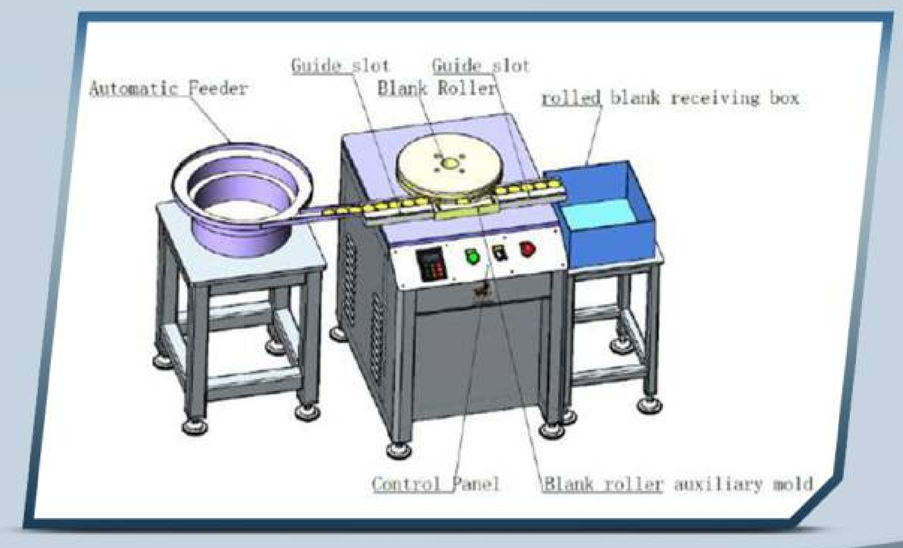
One disc can accommodate three track sizes, allowing edge rolling for coins of different diameters without replacing the entire mold.

- Fast Processing

Achieves complete edging in one pass—each coin's edge is finished within one second, greatly improving productivity.

- Automatic Feeding Device

Equipped with an automatic frequency-modulated vibration disc and glue-spraying system to ensure smooth feeding and prevent scratches.



High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
Model number	BTS-FARM-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

AUXILIARY

AUTOMATIC WAX INJECTOR MACHINE

BITSUN

TYPE BTS-AWIM

The Bitsun Full-Automatic Rimming Machine is specially designed for precise and efficient edge forming of coins, medals, and precious metal blanks. It integrates feeding, rolling, and trimming functions into one fully automated system, significantly reducing manual labor while maintaining excellent accuracy and consistency. This machine supports various coin diameters through adjustable molds, making it suitable for minting gold, silver, copper, and other valuable materials. Each coin's edging process is completed within one second, greatly improving productivity in high-volume production environments. With its automatic feeding and surface protection system, the machine ensures smooth operation without scratches or deformation. The Bitsun Rimming Machine is ideal for professional mints, jewelry manufacturers, and medal production lines seeking speed, precision, and superior edge quality.

FEATURES

▶ Vacuum Wax Melting

The wax tank uses advanced vacuum melting technology to ensure thorough melting of wax particles while eliminating air bubbles. This process enhances the density and precision of the wax model, guaranteeing smooth surfaces and accurate details in every mold.

▶ Temperature Control System

Equipped with high-quality imported components, the machine features a three-level digital temperature control system with an accuracy of ±0.2°C. This precise control ensures stable wax viscosity, consistent injection results, and optimal molding performance.

▶ Large Capacity

The 9 kg wax tank offers double the capacity of conventional wax injectors, minimizing the need for frequent refilling. This large capacity allows continuous operation and enables mass production of various wax models in different sizes and styles.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

SPECIFICATION	
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 50/6OHzZ
Air pressure	0.45-0.65 Mpa
Power	1100W
Vacuum	±0.06~0.07
Mould size(L*W*H)	116*116*96mm
Wax tank capacity	9kg
Temp Accuracy	±0.2℃
Temperature range	40℃~90℃
Vacuum time range	0.5-8s
mould pressure range	0.5kg-2.5kg
Wax pressure range	0.3kg-2.5kg
Wax time range	0.5s-10s
Wax precision	1%0
Wax time	10S

AUXILIARY

CHILLER

TYPE BTS-C-SERIES

The Bitsun Air-Cooled Chiller provides stable and efficient cooling for induction furnaces and casting machines. Designed for continuous operation, it ensures temperature stability, prevents overheating, and maintains optimal performance in jewelry production environments.

FEATURES

- Ideal for cooling induction furnaces and casting machines, ensuring consistent operation and stable temperature control.
- Utilizes pure water circulation to prevent contamination and maintain clean internal cooling channels.
- Requires water replacement only once a month, reducing downtime and manual maintenance efforts.
- Equipped with multiple safety and fault detection systems for stable, damage-free operation.
- Fully pre-assembled and factory-adjusted; simply connect pipes and circuits for immediate use—saving time and setup effort.

User-Friendly
Operation

Durability &
Reliability

High Precision
Technology

SPECIFICATION

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

AUXILIARY

CRUCIBLE

BITSUN

FEATURES

▶ Bitsun selects high-purity fused quartz as the main raw material, primarily used for melting platinum, gold, and other high-temperature alloys. The crucible offers exceptional product purity, strong corrosion resistance, high mechanical strength with a crushing resistance above 70MPa, and excellent thermal shock resistance.

▶ Bitsun graphite crucibles are made from specially formulated high-purity, high-strength, and high-density graphite material, providing a service life that is twice as long as ordinary materials.

▶ It also has the following characteristics:

1) Corrosion resistance, excellent impact resistance, and high thermal stability;
2) Superior thermal conductivity, which greatly shortens smelting time and saves energy;
3) Ash content below 300ppm, ensuring that precious metals remain uncontaminated during melting.

High Precision **Technology**

User-Friendly **Operation**

Durability & **Reliability**

Continous casting machine crucible set

Jewelry vacuum pressurized casting machine crucible set

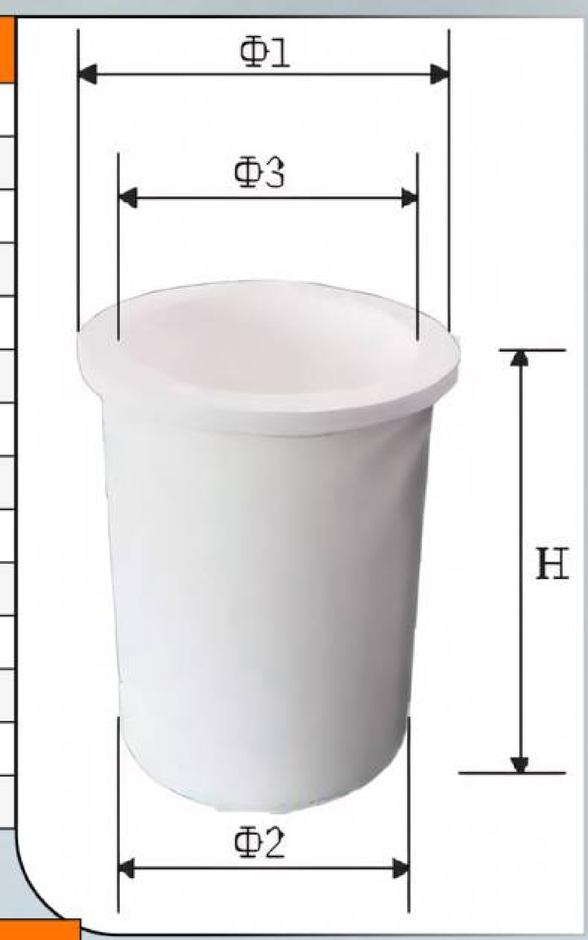
Jewelry vacuum pressurized casting machine crucible set

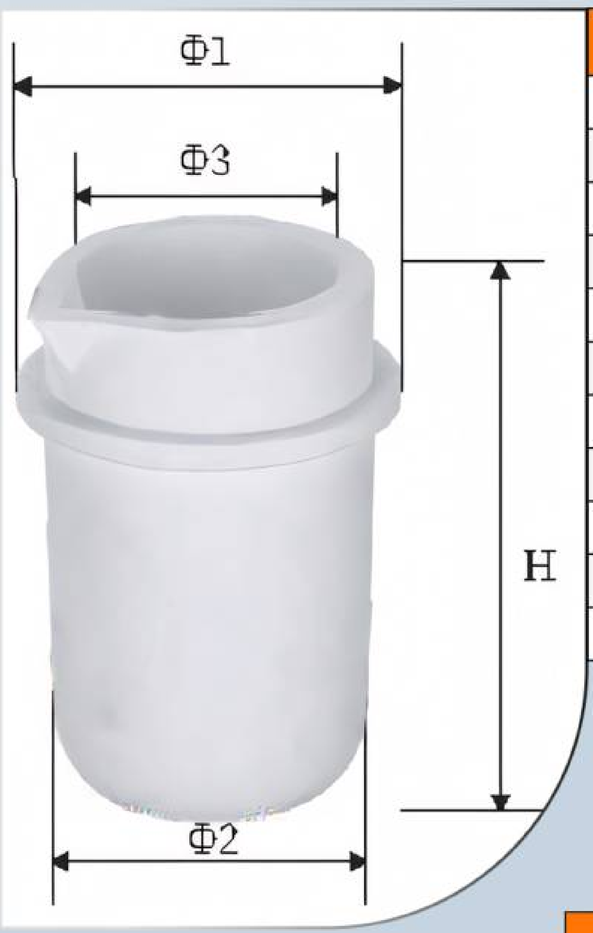
AUXILIARY

CRUCIBLE

SPECIFICATION					
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

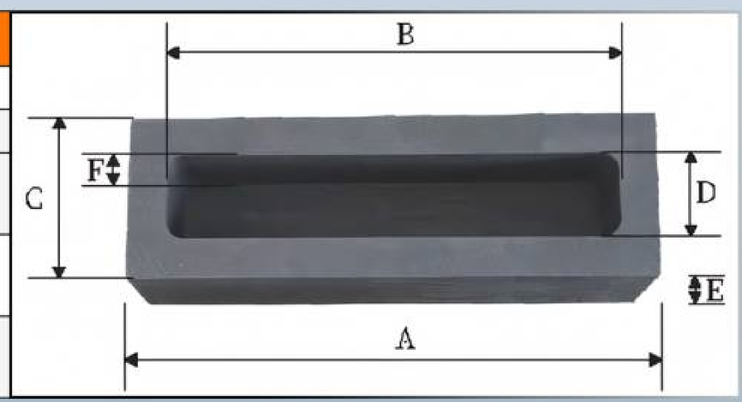
SPECIFICATION					
NAME	Φ1	Φ2	Φ3	H	Weight
1KG Quartz Coat	69	57	49	87	164
2KG Quartz Coat	81	70	60	110	275
2.5KG Quartz Coat	79	69	59	127.5	320
3KG Quartz Coat	82	78	68	110	335
4KG Quartz Coat	104	82	92	137	370
5KG Quartz Coat	118	100	89	135	700
5.5KG Quartz Coat	119	107	94	152	600
6KG Quartz Coat	125	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





SPECIFICATION					
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 Cup	43	47	62	102	300
2kg Platinum Melting Cup	86	59	74	118	478
2kg Platinum Melting Cup	80	56	72	114	400
3kg Platinum Melting Cup	88	64	80	126	498
4kg Platinum Melting Cup	90	64	86	149	950
6kg Platinum Melting Cup	112	90	118	175	2210
10kg Platinum Melting Cup	160	110	128	205	3402

SPECIFICATION							
NAME	MODEL	Size (mm)					
		A	B	C	D	E	F
1KG Graphite cuvette	GYC-1000-MF	135	115	42	22	32	22
2KG Graphite cuvette	GYC-2000-MF	160	140	48	28	38	28
3KG Graphite cuvette	GYC-3000-MF	175	155	52	32	42	32



AUXILIARY

GOLD COIN PACKING MACHINE

TYPE BTS-GCPM-8KWRS

The Bitsun Gold Coin Packing Machine is the final and crucial step in the production of gold and silver coins or bars. This advanced machine not only enhances the visual presentation of products by clearly displaying supplier information and specifications but also provides reliable protection during handling and transportation. Designed with a durable protective panel, it ensures operator safety and minimizes potential risks during operation. The fully automatic system enables efficient and continuous production, reducing labor costs while maintaining consistent quality. With Bitsun's extensive experience in precious metal processing and advanced equipment development, this machine offers a professional packaging solution that combines precision, safety, and high productivity — ensuring that every gold coin or bar is securely sealed and beautifully presented.

FEATURES

▶ Single and Double Operation Options

The dual-station design allows multiple operators to work simultaneously, significantly improving production efficiency. The manual turntable ensures precise positioning during each packaging cycle, enhancing accuracy and consistency.

▶ Advanced Safety Protection System

Equipped with a high-sensitivity anti-spark device, the Bitsun Gold Coin Packing Machine effectively prevents ignition risks and protects the packaging mold from damage during high-temperature sealing operations.

▶ Versatile Packaging Processes

A single machine supports various packaging methods, including welding and edge tearing, depending on the customer's design requirements. It can also be configured with a pressurized cylinder for synchronized edge trimming, providing flexibility and professional-grade results.

User-Friendly **Operation**

Durability & **Reliability**

High Precision **Technology**

SPECIFICATION	
Model number	BTS-GCPM-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

AUXILIARY

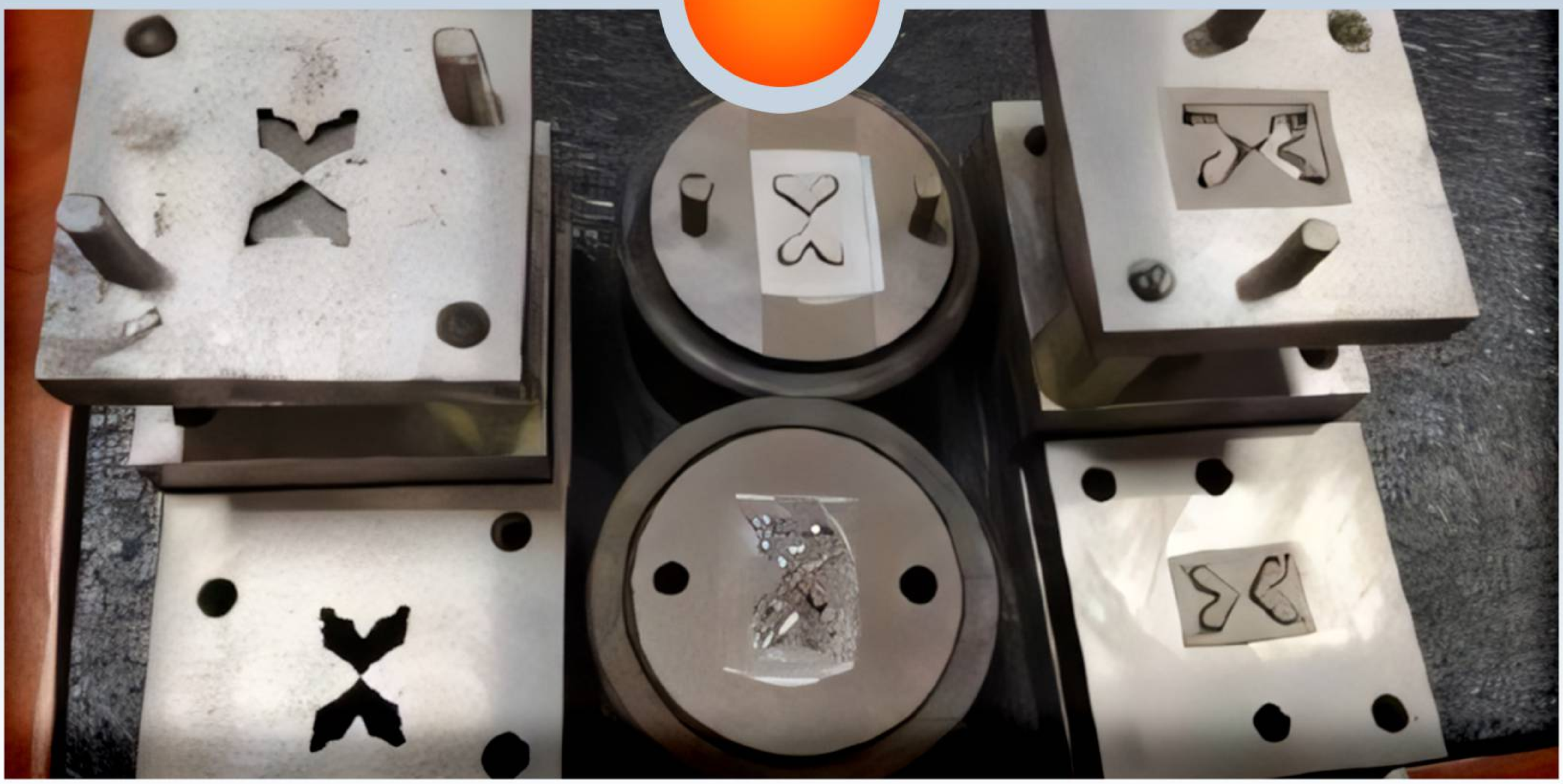
COIN DIE

The Bitsun Coin Die is a precision-engineered stamping tool designed for the production of gold, silver, copper, zinc, and other metal coins. Using advanced automated equipment, Bitsun ensures fast, accurate, and customizable die manufacturing to meet the highest minting standards. Each die can be engraved with personalized designs, including logos, texts, patterns, or images, which are precisely transferred onto both sides of the finished coin. Manufactured from premium-grade steel and processed through heat treatment and fine polishing, Bitsun Coin Dies guarantee durability, sharp detail reproduction, and long service life—ideal for professional minting facilities requiring consistent, high-quality results.

AUXILIARY

JEWELRY DIE

The Bitsun Jewelry Die is a precision forming tool designed for professional jewelry manufacturing. Made from high-strength materials such as steel and tungsten steel, each die ensures exceptional hardness, durability, and accuracy. During the hydraulic press process, metals like gold, silver, and copper are shaped into precise designs, sizes, and contours according to production requirements. Bitsun's advanced machining technology guarantees smooth surfaces and sharp definition on every detail, allowing jewelers to create consistent, high-quality pieces. Suitable for rings, pendants, bracelets, and other fine jewelry applications, the Bitsun Jewelry Die offers reliability, long service life, and superior performance in every production cycle.



AUXILIARY

JEWELRY DIE

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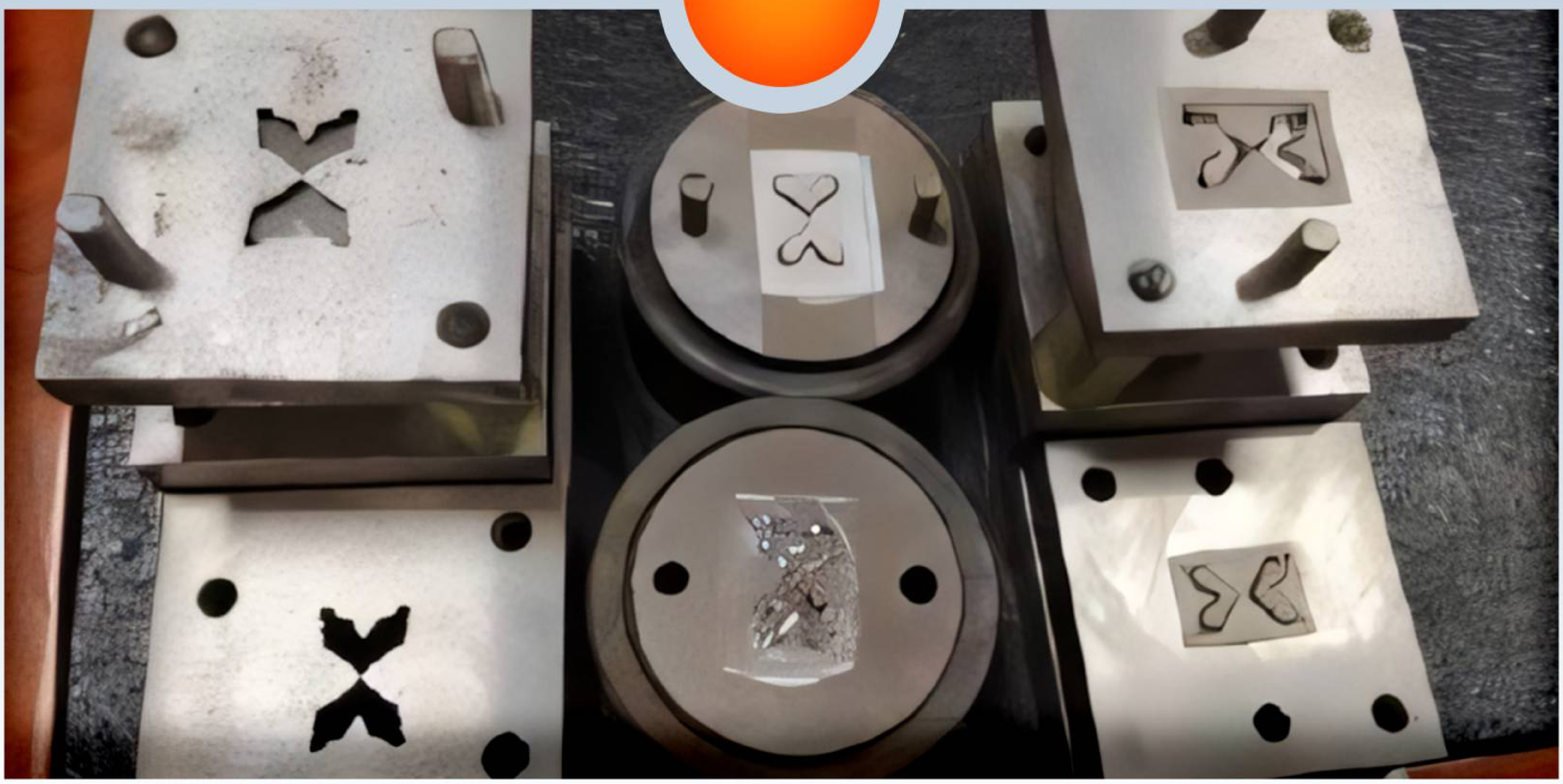

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