

Precious Metal Casting Machine



Gold Chain Making Machine

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

It is an automatic machine that features higher productive capacity for single, double, triple, right and left curb chains and single multiple cable chains. The gold chain making machine has the possibility of changing from curb to cable by means of a simple quick mechanism or from right to left curb thereby facilitating the production of two chains with identical pitch that is suited to the subsequent coupling.

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

- The chain can be mass produced with the help of the jewelry chain making machines and the designs can be different.
- You can easily make thin hollow and lightweight chains.
- In different karats of gold and sterling silver is how jewelry chains are made.
- The links can be automatically welded by a laser welding torch in the updated machines.
- Different kind of shapes can be produced.
- Thin and light hollow chains can easily be made with chains of all karats of gold is mass produced.
- Chains are made pretty quickly and accurately along with saving your valuable time. It is extremely cost-effective as well as labor-effective.
- The machine is quite effective enough to produce chains of every link and shape.
- The jewelry chain making machine allows one to produce the dual execution spirals and other kind of chains with various combinations of the long and short links on top of the combination of the linking variables and torsion.



Coin Press Machine

This hydraulic coin press machine comes with a steel fabricated body that is hydraulically operated and is specifically designed to mint gold and silver coins, as well as medals and bars. It leverages a force strong enough to press up to 150 tons of metal. It is best described as an upstroke coining press that delivers a RAM travel speed and features an extra hydraulic cylinder for return stroke. This means that by choosing this product, you will save energy hence cutting on electricity bill.

The machine lets you mint gold and silver metals and bars at a fair speed to meet the market demand. It comes with hydraulic power pack that consists of Piston Pump, relief valve, electric control panel board operated directional control valve, and standard hydraulic accessories. To get the most applicable features to meet your expectations, consider getting this product from reputable manufacturers such as SuperbMelt.

Servo motor driven system

The product comes with servo motor driven system that is great for different speeds and pressure that is needed while pressing gold and silver coins. This feature also ensures that the machine moves stably and that the noise is controlled. The stability is as a result of the fact that it uses famous hydraulic components that are highly optimized for various environments and applications.

- **PLC Control System:** This is an innovative system that makes the machine highly reliable since it makes the operation a lot more convenient. This feature lacks in traditional hydraulic systems, hence making this machine worth investing in.
- **Energy-saving effect:** Most users prefer this product due to its excellent energy saving effect. The servo-driven pump technology makes this hydraulic pump one of the best on the market. Compared to the traditional hydraulic press systems, with this machine, you will save energy up to between 40 and 60%. Note that it has to be connected to a reliable source of electricity so that it functions optimally.
- **Enhanced Productivity:** The product relies on servo hydraulic control, and this makes it highly productive. Compared to the CNC pressing machine, with this machine, you will boost the productivity of your company by at least 40%, which means you will be far much ahead of your competitors.
- **Straightforward Features:** The product, though takes care of complex duties, it does not rely on highly complicated features to get the work done. The hydraulic coin press machine comes from seasoned manufacturers who understand the importance of user-experience, so they keep the features as simple and straightforward as possible



Coin Die

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

A coin die is a steel rod with a face that is the same size as the coins that it will be striking. Two of these coin dies are needed to strike metal coins; one has the obverse (front) design while the other has the reverse (back) design.

The coin dies are set up in the Superbmelt hydraulic logo stamping machine for effective and efficient stamping on coins. Lubricants are not used in coining as they are incompressible.

We manufacture coin dies as well as samples on gold coins for our customers before they are shipped.

We at Superbmelt provide our clients with all coin minting equipment for every gold and silver coin making process, training and guidance to our clients.

- Coin dies are a faster, easier and less complicated approach to stamping coins when compared to the old process of beating, screw pressing and true gas press.
- Coin dies produce finer, lasting and detailed surface patterns on gold or silver coins.
- Coin stamping dies eliminates the needs for complex finishing processes and does not require expensive machinery.
- The work hardened surface of coins can resist impact and abrasion when stamped with coin dies.
- DIY coin dies allow coin manufacturers to produce unique and uniform patterns on coins which signifies authenticity. An ununiformed pattern on the same coin from the same manufacturer will be unacceptable to customers.
- Coin press dies are capable of stamping many hundreds to thousands of coins before they are retired and defaced.
- The coin die stamping does not impact the mirror-like appearance of gold coins. Therefore, the coin quality is highly maintained.

No loss of metal is recorded during the process of stamping with the coin die.



Logo Stamping Machine


Superbmelt Logo Stamping Machine is specially developed for the matching of gold ingot production line. It is mainly used for the embossing of various sizes of gold ingots.

Superbmelt Logo stamping machine is a hydraulic stamping machine that works by applying hydraulic or fluid pressure to a cylinder that is pressed against the object being pressed.

- Adopting four-column and three-plate structure, the planar accuracy of the movable plate fish table is high, the four-axis precision linear self-lubricating guide sleeve is controlled, and the vertical accuracy is high.
- Imported high-quality hydraulic components, electrical components, low noise, high performance, stable operation
- Simple operation, pressure, stroke and closing height can be adjusted by pressing process requirements.
- Two-handed operation, with emergency stop and inch movement function, infrared hand protector, optional three-sided cover, safe and efficient.
- Press height, stroke, worktable size can be customized according to customer requirements. It can be equipped with cooling system, blowing device, pressure retaining device, pressure relay, force measuring display, PLC operating system, etc.



Auxiliary Facilities

The background features a dark blue gradient with several prominent diagonal stripes in a gold or yellowish-brown color, creating a modern, architectural feel.

XRF Analyzer for Jewelry

Superbmelt XRF analyzer for jewellery is used to analyze precious metal purity and authenticity. The best XRF analyzer can perform a quick and accurate analysis of precious metals such as gold, silver, platinum, palladium and copper.

Superbmelt XRF analyzer for jewellery can be used by customers in pawn shops, jewellery making industries, scrap recycling, laboratory testing, etc.

As an XRF analyzer manufacturer, Superbmelt has a research and development team that is innovative and ensure all products are high quality to meet all requirements. Contact us today for the best XRF analyzer.

- Superbmelt XRF analyzer for jewellery is used for the accurate analysis of precious metal purity, such as gold, silver, platinum and palladium, at an analytical tolerance range of 0.01% to 0.03%.
- The process of testing and analysis is very simple. At the start of the Superbmelt XRF analyzer for jewellery, just press “ measurement start” and testing begins automatically.
- Superbmelt XRF gold tester for sale has an inbuilt controlling computer, which makes the XRF analyzer for jewellery easy to use and transport.
- At Superbmelt, we are concerned about the safety of our customer, hence, the Superbmelt XRF gold tester has a seal that ensures user’s safety.
- Superbmelt jewellery spectrometer is also equipped with multilevel safety protection systems that include: Ultra-low-power x-ray tube, fully enclosed testing chamber, automatic x-ray switch off, inner cover with stepped construction, etc.
- Testing and analysis time with the XRF gold tester is very fast, analysis is usually completed within 5 to 60 seconds.
- Superbmelt best XRF analyzer uses a unique optical technology and calculation method that ensures accuracy of results.
- Superbmelt XRF analyzer for jewellery is equipped with a collimator measuring 1 to 2 mm, but we can design it for you according to your requirements.
- Superbmelt jewellery spectrometer can measure different sizes and shapes of metal. Which makes it suitable for use in pawn shops, jewelry making industries, scrap recycling, etc.
- Superbmelt XRF jewellery tester is equipped with a camera so that you can view the x-ray spot position on your computer screen during an analysis of metals.
- The compact design (with a dimension of 48*48*39cm and weight of 38kg) means the Superbmelt best XRF analyzer occupies minimal space, is easy to transport and requires low maintenance.



XRF Analyzer for Jewelry

Superbmelt XRF gold tester is used for testing and analyzing the elements present in metals. Metals such as gold, silver, platinum, copper, brass, palladium, etc, can be analyzed accurately with Superbmelt best gold testing machine.

Superbmelt XRF gold tester performs a non-destructive and accurate analysis of precious metals in order to determine their authenticity. The process is testing takes between 5 to 120 seconds.

The best XRF gold testing machine by Superbmelt is adopted for use in jewellery stores, pawnshops, research and development, precious metal mining, etc. Contact Superbmelt today for the best, cost-saving and time-saving gold testing machine.

- Superbmelt XRF gold tester is specially designed for the testing and analysis of precious metals in order to determine their material composition and degree of authenticity.
- Superbmelt XRF gold tester for sale is suitable for testing metals such as gold, silver, platinum, palladium, iron, zinc, nickel, molybdenum, chromium, osmium, rhodium, iridium, ruthenium, etc.
- The 7-inch high-resolution touch screen can display over 25 elements at the same time after testing within 120 seconds or less.
- Superbmelt gold testing machine has Microsoft Windows software that is easy to use. The software requires no standard samples for calibration.
- Irrespective of the size of metal you are analyzing, the Superbmelt XRF gold testing machine can analyze metal materials whose sizes are as small as a pin, as well as, large sizes like an ingot can be accurately analyzed.
- Superbmelt mini gold testing kit performs a non-destructive precious metal analysis and the result of testing is close to fire assay.
- Superbmelt XRF gold smelter has a camera that allows you to see the x-ray spot position from your computer for a more effective analysis.
- The power supply mode is AC100V~240V, DC12V, which can be charged with vehicle power supply and battery.
- Superbmelt XRF gold testing machine has a dimension of 40*30*27cm, the testing machine is portable and saves space.
- The XRF gold analyzer weighs 17kg which is easy to transport to different locations.
- Industries such as jewellery making, jewellery stores, pawnshops, financial institutions, etc, make use of Superbmelt XRF gold tester for sale for high-quality production and service delivery.
- Superbmelt XRF testing equipment is safe to use through the unique design that seals the x-ray within the chamber. The x-ray does not escape the chamber to harm the operator.
- Superbmelt gold tester is made with quality materials that have a long-lasting benefit.



XRF Precious Metal Analyzer

Superbmelt XRF precious metal analyzer XRA3800 is an analyzer best suited for testing and analyzing the elements in metals. The XRF metal analyzer by Superbmelt is also used to determine the content of metals such as gold, silver, platinum, palladium, Copper, Zinc and so on.

Superbmelt XRF gold tester for sale performs a non-destructive, fast and accurate analysis of metals. The XRF precious metal analyzer has inbuilt and easy to use software that makes it easy for use in industry of jewelry, refinery, gold mining, lab analysis, pawn, and other metal application.

It could test all kinds of material like jewelry chains, rings, gold bars, liquid, powder and mines rock. This XRF Gold Analyzer only takes about 30 seconds for qualitative analysis.

Completely Intelligent Analysis: The operator just needs to put the samples on the measurement window and click "measurement start" to get result.

Only one sample is needed for calibration, reducing operation steps and making operation easier

High Accurate: Analysis results close to fire assay result.

Rapid Analysis: Only takes several seconds for qualitative analysis, and 1 to 2 minutes for quantitative analysis.

Superbmelt XRF precious metal analyzer is used for the analysis, detection of elements present in metals, and testing thickness of metal coatings.

The XRF gold tester by Superbmelt is able to detect elements such as gold, silver, platinum, palladium, iron, copper, nickel, zinc, rhodium, iridium, chromium, and so on.

The systems software is based on Microsoft Windows which makes it easy to use. By pressing the start button, analysis begins. This means that there is no need for standard samples for calibration.

After analysis, the Superbmelt XRF precious metal analyzer can display over 25 elements at the same time on the high-resolution screen.

The process of analysis is fast, it usually takes 1 to 120 seconds. This helps you to save cost and time during precious metal analysis,

On average, the Superbmelt XRF metal analyzer has an analytical tolerance of 0.01%-0.3%.

The excited source is a low power x-ray tube that reduces the chances of precious metal damage during testing and analysis.

Superbmelt precious metal analyzer for sale is compact in size with a total dimension of 45*30*20cm and weighs only 23kg.

Superbmelt gold tester performs testing and analysis accurately, the result of testing is close to fire assay.

Superbmelt XRF precious metal analyzer has a power supply mode of 220V 50Hz or 110V 60Hz that can easily be charged with vehicle power supply and battery.



Handheld XRF Analyzer

The handheld XRF analyzer is a non-destructive analytical tool that is used to detect the elements present in materials.

The handheld XRF gold analyzer can identify the components of metals and alloys such as gold, silver, stainless steel, cobalt alloys, bronze, zinc, zinc alloy, nickel alloys, tungsten alloys, etc.

Handheld XRF analyzer works by measuring the fluorescent x-rays emitted from a sample when excited by a primary x-ray source. Each of the elements present in a material produces a set of characteristic fluorescent or unique fingerprints. These fingerprints are different for each material, therefore making the handheld XRF gold analysis an excellent tool for quantitative and qualitative measurements.

The handheld XRF analyzer is used in the following industries; construction and environmental engineering, mining and exploration, precious metal recycling, oil and gas, automotive, etc.

The handheld XRF analyzer offers unmatched metal identification, designed for easy use, accuracy and reliable elemental analysis.

The handheld XRF analyzer is lightweight and best for performing crucial tasks for any weather condition, field environment and location. Therefore, no need to worry about lifting heavy analyzing equipment to different locations. The handheld XRF analyzer saves significant expense and time when compared to traditional laboratory analysis. The shorter measurement times and superior detection capacity increases your productivity. The XRF portable analyzer is able to detect and measure these elements in materials: Au, Ag, Ti, V, Cr, Mn, Fe, Sn, S, Hf, Ta, Mo, W, Si, Sb, etc.

The handheld XRF gold analyzer can detect contaminant metals and elements with little to no sample preparation, therefore providing fast and decisive results.

The handheld XRF analyzer has a rapid nondestructive detection and quick measurement by simply aiming at the material and able to report results of detection within seconds.

The large lithium battery is 27000mAh, this is capable of powering the XRF gold analyzer continuously for three days. A built in memory battery can replace the battery power should the main battery go off on site after three days.

The handheld alloy analyzer has a professional inbuilt application software that features easy testing and getting quick results.

The portable XRF analyzer has an inbuilt 500W pixels high definition camera that can observe the sample's testing position which makes the measurement of elements accurate.

The handheld XRF gold analyzer has a collimation filter system that has a combination of 12 groups, this makes it possible for the handheld analyzer to meet your requirements.



Gold Tester Gun

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

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

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

The handheld gold tester gun works by measuring the fluorescence x-rays emitted from a sample when excited by a primary x-ray source. This process takes approximately 30 second, which means that analysis of materials is very fast.

The gold tester gun is portable, weighing only 1.58kg, which makes it easy to transport and use on various work sites.

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

The operation of the gold tester gun is very easy, there is no special expertise required.

The 5 inch high definition screen can display analysed results clearly at any light.

The gold tester gun can accurately measure elements from sodium(Na) to uranium (U).

The large lithium battery, can last up to three days and it is equipped with a car charger to ensure continuous power supply to the XRF analyzer. An inbuilt memory battery can replace the battery power.

There is no need for sample preparation, materials can be measured and analyzed directly. It also provides a quick, nondestructive and clean analysis.

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

The gold tester gun can run without helium by the ultra near optical path design and can detect the light elements from the beginning of sodium that fully meets the needs of specific users.

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

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

It is widely applicable in industries such as; mining and exploration, food processing, precious metal and jewelry analysis, consumer goods testing, environmental remediation, etc.



Gold Testing Machine

The XRF Gold Analyzer is widely used for the analysis of precious metal purity, authenticity and metallization thickness. The XRF Gold Analyzer can accurately analyze the purity of four precious metals: gold, silver, platinum, palladium etc, analytical tolerance range is 0.01% to 0.3%. It can also test Au, Ag, Pt, Pd, Cu, Ni, Zn, Mo, Ir, Rh, Os, Ru, Cr, Fe, etc, and show over 25 elements at the same time. The whole process only needs to put the precious metal to the test area and analyze it without destroying the original precious metal to avoid the loss of precious metals.

Completely Intelligent Analysis: A good gold analyzer doesn't require the operator to know professional knowledge. The operator just needs to put the samples on the measurement window and click "measurement start". Then the intelligent analysis system will report the sample purity automatically. No complex to do in the whole process. This needs advanced technology. XRA series Gold Analyzer just does like this. Not all XRF analyzers can do like this. For some brands' XRF machines, the machine can report the purity only after the operator chooses the working curve or calculate method. But the machine will report different results for the same sample if you choose different curves. If so, how do customers know which working curve is right for the sample in advance?

All-in-one and Wireless Access: The machine(2000) and the controlling computer are combined together, which is simple and concise. Its compact, portable, space-saving, streamline body designs with high quality make it an excellent value of long-life usage and low maintenance. Supporting Wifi allows it to be convenient for us to remote control.

Accurate (Analysis Results Close To Fire Assay Results): XRA series Gold Analyzer uses unique optical technology and calculation method to ensure analysis results close to Fire Assay. Many companies know how to assemble a XRF analyzer, but they don't know how to optimize the whole system, so even if they can finish complete XRF analyzer, but their results are very far away from Fire Assay results. So we suggest if customers want to buy XRF analyzer, they should make some gold samples, test those samples by XRF analyzers with different brands and Fire Assay method, and then compare the results and choose the most cost-effective machine. Using unique optical technology and calculation method to ensure analysis results close to Fire Assay. Analytical tolerance range is 0.01% to 0.3%.

Multilevel Protections from X-ray: Using unique design to seal x-ray in the chamber totally, making sure the operators' safety. There are multilevel safety protection systems.

- Ultra low power x-ray tube
- Fully enclosed metal box
- Automatically X-ray switch off
- Inner cover with stepped construction and so on

