

Gold/Silver Potassium Cyanide Making Machine | RTG-1001

3D Hard Gold/Silver Jewelry Electroforming Machine

80 and 100 litre electroforming tanks with plus or minus 1 C control, for hollow gold and silver pieces.



A complete electroforming station: 50 A / 12 V precision rectifier, 2 kW heating with plus or minus 1 C temperature control, timed cycle, circulating filtration, platinum-titanium mesh anode, automatic low-level alarm and a precious metal recovery basin, in 80 L or 100 L tank sizes.

The problem it is built for

Electroformed gold lives or dies on bath uniformity. Drift a degree, let impurities build up, or lose track of the ampere-hours and you get uneven wall thickness on a piece that has several grams of gold in it. Every element of this machine exists to hold one of those variables still.

Published specification

Parameter	Value
Product name	3D 24K hard gold/silver jewelry electroforming machine
Brand	XHF
Model	RTG-1001
Tank sizes	80 L (inner dia. 570 x 300 mm); 100 L (inner dia. 630 x 300 mm)
Electroforming power	50 A / 12 V
Heating system	2 kW
Temperature control accuracy	+/- 1 C
Anode	Platinum-titanium mesh (YD/PT)
Voltage	220 V
Weight	250 kg
Core components	Motor, pump, rectifier
MOQ	1 set
Warranty	1 year
Payment	L/C, T/T, Western Union, PayPal

3D Hard Gold/Silver Jewelry Electroforming Machine - features and applications

What is built into it

Feature	What it does
Precision rectifier at 50 A / 12 V	Stability in the current is what produces an even deposit. The rectifier is specified for electroforming rather than borrowed from a plating line.
Plus or minus 1 C	Electric heating pipe plus temperature control box. One degree is the tolerance quoted, and it is the single most important number on the machine.
Circulating filtration on the bath	A corrosion-resistant circulation pump, inlet and drain pipework and a filter keep the electroforming liquid uniform and low in impurities, which is what makes the finished piece clean.
Water level alarm and auto-stop	A minimum level is preset. Below it the machine alarms and stops working, rather than running a tank dry with gold solution in it.
Recovery basin built in	A liquid recovery basin is part of the machine, so the precious metal in carry-over goes back into the process instead of down the drain.

Where it is used

- Gold pendants, bracelets, rings, bangles and anklets
- Silver pendants, bracelets, rings, bangles and anklets
- 24K, 23.16K, 21K, 18K and 14K hard gold jewelry production
- Hollow and thin-walled designs where solid casting would be too heavy or too costly

Questions buyers ask

What is supplied with the machine?

Rectifier, circulating filtration device, temperature control, time control, artifact rotation device, cathode and anode conductive device and the necessary safety devices. Electroforming chemistry can be supplied separately; hanging trays and fixtures are customised to the actual piece.

Which tank size should I take?

80 L with an inner diameter of 570 x 300 mm, or 100 L at 630 x 300 mm. Both run the same RTG-1001 filter system, 50 A / 12 V power and 2 kW heating.

Does it handle silver as well as gold?

Yes. The same machine is specified for gold and silver pendants, bracelets, rings, bangles and anklets.

How is operator safety handled?

The electroforming tank can be fitted with a transparent cover and security lock to keep the liquid clean and the operator out of it, with overload and phase-failure protection on the electrical side.

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