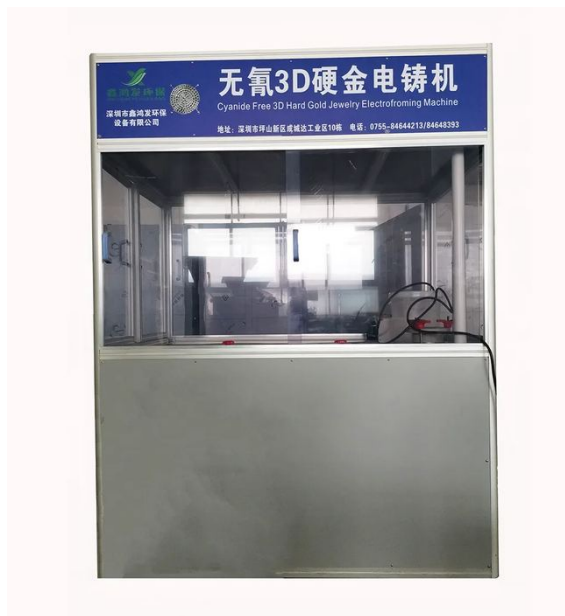


Precious Metal Electroforming Equipment | RTG-1001 / 60 L

Cyanide-Free 24K Hard Gold Jewelry Electroforming Machine

PLC-dosed, cyanide-free 24K electroforming for 5D structures.



A 60 litre cyanide-free electroforming machine with an automatic dosing pump under PLC control: the program sets the ampere-hour value and meters the solution accordingly, and also controls circulation, filtration, cycle time, current and the forward and reverse swing.

The problem it is built for

Cyanide electroforming chemistry brings a licensing, ventilation and insurance problem into a jewelry factory before it produces a single piece. A cyanide-free bath removes that, and PLC dosing removes the second problem, which is an operator topping up a 24K bath by eye.

Published specification

Parameter	Value
Product name	Cyanide free 3D 24K hard gold jewelry electroforming machine
Brand	XHF
Model	RTG-1001
Machine type	5D gold jewelry electroforming machine
Tank size	60 L (inner dia. 620 x 200 mm)
Electroforming power	50 A / 12 V
Heating system	2 kW
Total power	3 kW
Temperature control accuracy	+/- 1 C
Anode	Platinum-titanium mesh (YD/PT)
Voltage	220 V
Weight	250 kg
Single package size	152 x 105 x 127 cm
Core components	Motor, pump

Parameter	Value
Warranty	1 year

Cyanide-Free 24K Hard Gold Jewelry Electroforming Machine - features and applications

What is built into it

Feature	What it does
Cyanide-free process	The defining feature. The same 24K hard gold and 5D structures without bringing cyanide chemistry into the workshop.
Automatic dosing under PLC	The dosing pump adds solution automatically on an ampere-hour trigger set in the program, so replenishment tracks the actual metal deposited rather than the operator's guess.
Five things the PLC controls	Dosing time and quantity, circulation and filtration speed, electroforming time with automatic stop, electroforming current, and swing direction, duration and speed.
Separate circulation and filter pumps	Two corrosion-resistant pumps rather than one doing both jobs, so filtration rate and circulation rate can be set independently.
Auto-stop on low level	Minimum tank level is preset; the machine alarms and stops rather than exposing the anode.

Where it is used

- 24K hard gold pendants, bracelets, rings, bangles and anklets
- 5D structure pieces with complex, artistic geometry
- Jewelry workshops that cannot or will not run cyanide chemistry
- Production where deposit thickness has to be repeatable batch to batch

Questions buyers ask

Why choose the cyanide-free machine over the standard 3D electroforming machine?

Chemistry and control. The cyanide-free bath avoids cyanide handling altogether, and this build adds PLC automatic dosing, which the standard 3D machine does not have.

What does 5D refer to here?

The machine type is listed as a 5D gold jewelry electroforming machine, aimed at the more complex and artistic structures in 24K hard gold.

What is the tank capacity?

60 litres, inner diameter 620 x 200 mm, on the RTG-1001 filter system with 50 A / 12 V power and 2 kW heating. Total connected power is 3 kW.

What are the shipping dimensions?

152 x 105 x 127 cm at 250 kg.

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