

Gold/Silver Potassium Cyanide Making Machine | 68.3% GPC

Gold Potassium Cyanide Making Machine

Make your own gold salt at 68.3 percent by diaphragm electrolysis, instead of buying it.



A diaphragm electrolysis cell with polymer filter membrane separation that produces gold potassium cyanide at 68.3 percent purity from gold and potassium hydroxide, in 1, 2 or 5 kg batches, with the exhaust gas collected and the gold in it filtered back out.

The problem it is built for

Gold salt bought in carries a conversion margin and an assay you have to trust. Making it on site removes both, and the two places gold normally disappears, a leaking electrolytic tank and the exhaust duct, are the two things this machine is specifically engineered against.

Published specification

Parameter	Value
Function	Production of gold potassium cyanide at 68.3% purity
Machine type	Gold electrolytic machine
Principle	Diaphragm electrolysis
Capacity	1 kg / 2 kg / 5 kg per batch (customisable)
Main materials	Gold, potassium hydroxide
Tank material	PP plate
Size	1320 x 750 x 1830 mm
Weight	130 kg
Power supply	220 VAC 60 Hz / 380 V AC 50 Hz
Core components	Rectifier, filter membrane
Brand	XHF
Warranty	1 year
Supply ability	300 sets per year

Gold Potassium Cyanide Making Machine - features and applications

What is built into it

Feature	What it does
Electrolysis plus membrane separation	Advanced electrolysis with polymer filter membrane separation layered on top, which is what holds the purity of the produced gold salt at 68.3 percent.
A tank tested not to leak	Welding quality is controlled specifically because the liquid in the cell is dissolved gold. Every tank is water-tested for leaks repeatedly before it is passed.
Gold recovered from the exhaust	A filter cotton at the exhaust gas suction port catches the small amount of gold that leaves with the fume, so loss is attacked from both the process and the ventilation side.
Complete cell configuration	Rectifier, titanium anode and cathode, filter membrane, heating and temperature control, time control and exhaust gas collection system, supplied as one machine.
Sized to your batch	1, 2 or 5 kg per batch as standard, and customised to requirement beyond that.

Where it is used

- Jewelry factories producing their own electroforming and electroplating raw material
- Electroplating workshops running gold baths in volume
- Refining facilities converting recovered gold into salt

Questions buyers ask

What else do I need to make gold salt end to end?

The source lists the full set: this machine, a toxic gas treatment machine (dia. 1000 x 2400 mm), a gold tablet press to make gold nuggets into thin pieces, a refrigerator for cooling crystallisation, an oven for drying the salt, and an RO water system. The press, refrigerator and oven can be self-purchased or bought from us.

Why does the toxic gas treatment machine matter?

It treats the toxic gas generated by the gold potassium cyanide making process. It is not optional equipment; it is listed as one set alongside the making machine.

What purity of gold salt does it make?

68.3 percent gold potassium cyanide, which is the raw material for electroforming and electroplating.

How big is the machine?

1320 x 750 x 1830 mm, 130 kg, on 220 VAC 60 Hz or 380 V AC 50 Hz.

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