

## ELECTRUM®

### PRECIOUS METAL RECOVERY SYSTEM

The Electrum® system is designed to recover electrolytically the metal contained in concentrated or diluted solutions.

Its main target applications are in the field of precious metals plating and surface treatment (Au, Ag, Pd, etc...).

However, it can also be used for the recovery of the base metals (Cu, Ni, Zn, etc...) from waste water or rinses.



- ✔ The deposit is kept inside the captive cartridge,
- ✔ Avoid all risk of metal deposit loss even if this one is powdered,
- ✔ High capacity and efficiency of recovery (down to less than 5 ppm in the remaining solution depending on the application),
- ✔ Patented cartridge device,
- ✔ Very quick return on investment.

**Dimensions (mm) :** L x l x h = 510x510x470

**Weight :** 25 Kg

**Liquid Volume (when running) :** 10 Liters approx.

**Maximum Operating Temperature :** 60°C

**Electrical :** 220 Volts, single phase, 50 Hz

**Connection :** Certified E.U.

**Consumption :** ≈ 330 VA (1,5 A)

**Rectifier :** 15 Amps, 10 Volts, continuous current, controlled by current or voltage

**Certified E.U. :** Protection against over-current by fuse and integrated circuit breaker

# THE BENEFITS OF THE ELECTRUM®

## ✓ HIGH CAPACITY OF RECOVERY

Able to recover down to very low concentrations (< 5 ppm) depending on the applications,

## ✓ "CAPTIVE" DEPOSIT INSIDE THE CARTRIDGE

No loss of metals

## ✓ EASE OF USE AND RECOVERY

Easy change of cartridge and quick recovery,

## ✓ EFFICIENT ON ALL TYPES OF METALS

Gold, Palladium, Silver, Rhodium, Ruthenium, Copper, Nickel and others in concentrated baths or rinse water,

## ✓ CYANIDE DESTRUCTION

The addition of 10 to 20 g/L ECN additive allows for a continuous destruction of the cyanide during the recovery and electrolysis process,

## ✓ RECOVERY OF PALLADIUM IN IONIC SOLUTIONS

High efficiency process on the Ionic Palladium solutions,

## ✓ RECOVERY OF PALLADIUM IN COLLOIDAL SOLUTIONS

The addition of the EPd additive combined with the use of a specific cartridge allow for the recovery of Pd from colloidal solutions,

## ✓ RECOVERY OF GOLD FROM ETCHING SOLUTIONS

The addition of 10 to 20 g/l of the EAu additive allows the recovery of Au from etching solutions thanks to an improved electrolysis process,

## ✓ PATENTED DEVICE

All-in one system, easy to use and unique in its captive cartridge concept,

## ✓ KNOWLEDGE OF THE WEIGHT OF DEPOSITED METAL

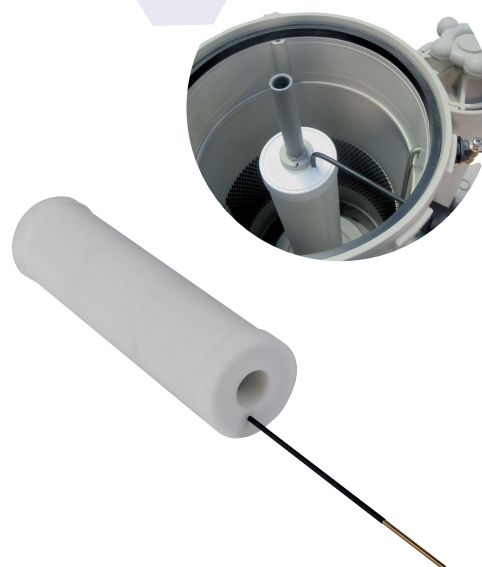
Check by yourself and calculate your own recovery data after drying of the cartridge,

## ✓ QUICK RETURN ON INVESTMENT

The more you recover, the more you make your device profitable.

## CAPTIVE CARTRIDGE Electrolytic recovery cartridge

- ✓ The deposit is retained inside the cartridge
- ✓ Avoid any risk of deposit loss during recovery
- ✓ Invisible deposit
- ✓ Knowledge of the weight of the recovered metal
- ✓ Ease of melting and refining



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MICROPULSE PLATING CONCEPTS