

# **BRAVor™**

## Precious Metal Recovery



**BRAVor™** is based on the EMEW® technology, licensed from Electrometals Technologies Ltd. The system has the ability to recover precious metals from many spent process solutions, such as plating baths, wash solutions and rinse waters

### **BRAVor™ offers the following key benefits:**

- End users are enabled to recover their precious metals
- Exhausted solution can be treated on site, avoiding transportation costs
- Minimal maintenance
- No chemical additives are required
- Easy in operation

### **Main BRAVor™ Applications:**

- Recovery of Gold from cyanide and chloride solutions
- Recovery of Rhodium from sulphate solutions
- Recovery of Silver from nitric and cyanide solutions
- Platinum, Palladium and many other metals

EMEW® is a registered trademark of Electrometals Technologies Ltd

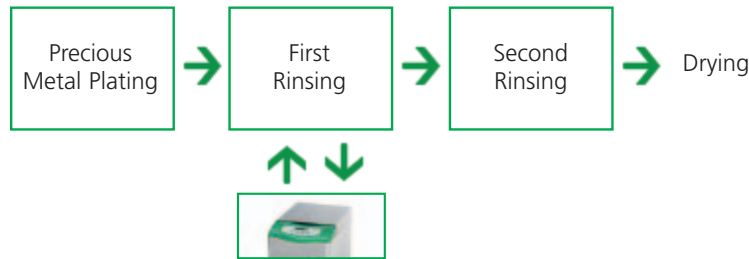


## Precious Metal Recovery

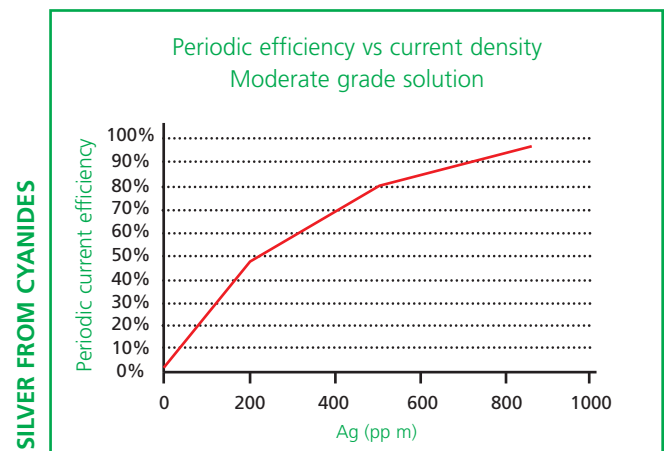
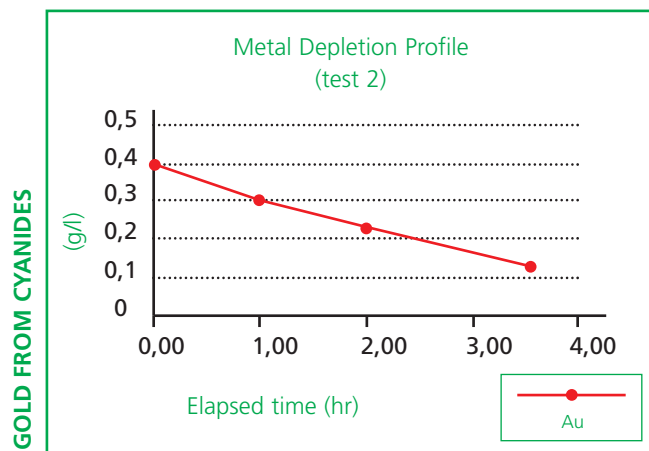
BRAVor™ offers significant benefits to the following processes:

### JEWELLERY PLATING

After plating, jewellers clean their products surfaces by immersing them in process water. This cleaning process is illustrated as follows:



During the first rinsing stage, the concentration of precious metals gradually increases to a point where the process solution is considered "spent". Typically this is at 0.5 to 1 g/l. This spent solution can be treated with the BRAVor system to recover precious metals.



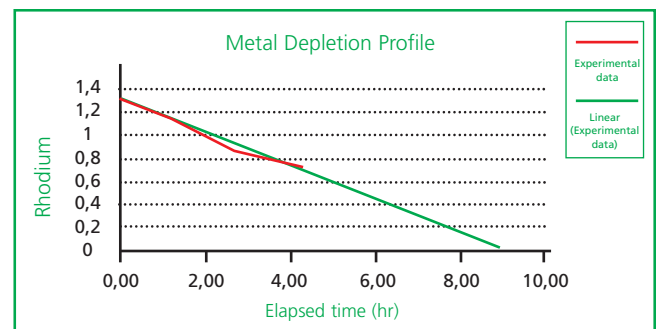
### GALVANIC SHOPS: SPENT RHODIUM BATHS

#### RHODIUM FROM SPENT SULFATES BATHS

Rhodium baths are used by jewellery manufacturers to give their white gold alloy a brilliant aspect. Bath composition is normally around 2 g/l of rhodium sulfate in trivalent valence. During this process there is a gradual increase of contaminant metal ions such as copper and iron. When these contaminants affect quality, the solution is considered "spent", however it contains a high level of precious metals. A spent rhodium bath can be treated directly with the BRAVor system to recover rhodium.



**Dimensions and Weight**  
(L x H x W) 400 x 600 x 500  
25 Kg approx



[www.denora.com](http://www.denora.com) / [www.bravor.com](http://www.bravor.com)

**Durantes Vincunt**

De Nora India Limited - Plot No. 184,185 & 189, Kundaim Industrial Estate - Kumdaim - 403 115, Goa, India  
ph +91 (0832) 981100 - fax +91 (0832) 3981101 - mail [denoraindia@denora.com](mailto:denoraindia@denora.com) - [www.denoraindia.com](http://www.denoraindia.com)  
De Nora India Limited was formerly known as TITANOR COMPONENTS LIMITED

All information, recommendations and suggestions appearing herein concerning the use of our products are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of the products described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by De Nora as to the effects of such use or the results to be obtained, nor does De Nora assume any liability arising out of the use by others of the products referred to herein. In addition, the information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular circumstances exist or because of applicable laws or government regulations. Nothing herein contained is to be construed as a recommendation to infringe any patent.