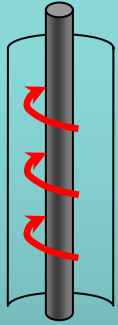


EMEW® ELECTROWINNING FOR PROFIT



EMEW®

ENVIRONMENTAL

Metal Recovery From Waste Solutions

Electrometals Technologies Limited

EMEW® is a remarkably efficient metal recovery technology that elevates responsible recovery of metal from industrial waste solutions to a commercial enterprise.

- Waste to metal in a single step
- Reduction of disposal costs
- Reduction of landfill liability
- Re-locatable (modular) plant
- Multiple metals recovered
- No expensive reagents required
- Depletion down to a few ppm
- Total gas capture
- Clean, efficient and safe characteristics

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EMEW® CHARACTERISTICS

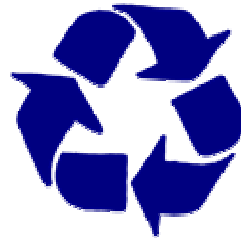
Public awareness of the consequences of polluting our environment has given rise to new environmental legislation and stricter enforcement of existing codes governing the use and discharge of many materials. The so-called heavy metals are some of the materials that are now controlled by Government and Local legislation

EMEW® simplifies the process of recovering metals by electrolysis (electrowinning). The basic principles of electrowinning are applied in many mining and metal treatment plants around the world. However, in conventional usage, the process is restricted in application due to limitations in operating versatility and high capital cost.

There is an increasing requirement for the localised (on-site) treatment of industrial waste solutions. The reasons for this are not just environmental. Disposal costs for treating waste streams have increased dramatically in recent years, with the trend set to continue. The robust design of EMEW®, coupled with a small footprint, enables the technology to be retrofitted in any industrial setting.

EMEW® technology can play a key part in the sustainable development program of any organisation. The technology reduces waste, recycles metal and has no chemical additions that could have an adverse down-stream impact.

EMEW® outperforms conventional electrowinning technology through a simple process of accelerating the rate at which metal ions are presented to the surface of the cathode. This significantly increases plant efficiency resulting in lower cost, higher performance levels, increased process versatility and a variety of other economic benefits.



Environmental Protection
Economic Development
Improving Social Consequences

EMEW®



EMEW® is a global entity with affiliate sales & technical support offices in Australia, Brazil, Canada, Chile, Italy, Singapore and USA.

To locate a contact near you, visit our webpage:
www.electrometals.com.au

Electrometals Technologies Limited

EMEW®'s Value Add

An EMEW® recovery system has a typical payback of 18 months or less.

EMEW® Advantage

- ◆ Robust Design
- ◆ No ventilation required
- ◆ Total gas capture
- ◆ Recovery in a single step
- ◆ Low depletion limits
- ◆ Small efficient plant
- ◆ No chemical additions
- ◆ Modular construction
- ◆ Low maintenance
- ◆ No moving parts

The EMEW® technology is capable of recovering many metals including Platinum, Gold, Silver, Nickel, Cobalt, Copper, Tin, Zinc and Cadmium. The broad range of applications to which EMEW® is ideally suited has resulted in EMEW® installations in North America, South America, Europe, Africa, Asia and Australia.

Typical Environmental Applications

- Copper & other metals from acid mine drainage
- Silver from photographic rinse solutions
- Copper from spent PCB etchant
- Zinc from Electric Arc Furnace Dust (EAFD)
- Gold from chip manufacturing waste
- Various metals from
 - Electroplating rinse solutions
 - Spent catalysts
 - Tailing & evaporation ponds
 - Most general industrial waste solutions

Electrometals Technologies Limited provides a full range of products and services to the metal recovery industry; from flowsheet development and process engineering to "total package" turnkey projects.



" EMEW cells are equipped with Dimensionally Stable Anodes (D.S.A.®) manufactured by De Nora Elettrodi Network. D.S.A.® is a registered trade mark of D.N.E. S.p.A."

www.denora.com