

In-House Dross Reclamation Yields Significant Savings and Environmental Benefits

Many non-ferrous metal producers landfill or sell their dross and wonder if they are truly getting the full value after considering the freight, time, and processing costs. It is often asked how much is saved if this is done in-house.

Until recently the equipment was too large and expensive to reclaim the metal from the dross in-house. Thanks to modern technology the process has been refined and made much more affordable. As metal producers move toward zero-discharge with the mindset of going green while saving profits, the attention and demand for technology like this is gathering momentum.

A solution now exists to a long-standing need on how to profitably process dross in-house. DIDION International, Inc. has developed this technology with their new generation of Rotary Dross Separator / Metal Reclaimers. The patented design reclaims valuable metals from dross oxides through a system that crushes, cleans, separates, and screens in one highly efficient machine. Customer testimonials report huge success from substantial savings for an excellent payback. A metal producer had accumulated



The DIDION® Rotary Dross Separator / Metal Reclaimer System.



6,200 tons of skimmings from its melting operation and started researching options to reclaim the valuable metal. This is the point at which DIDION came into the picture. A series of tests were conducted to determine the useable metal content. The first test was completed, the results tabulated, and the material was returned to the metal producer. They couldn't believe the metal content was so

high. Shortly thereafter, a second test was requested. It was questioned whether the sample had been drawn from a rich part of the pile. After second and third tests were completed, confirming the original results, the management team was truly excited by the projected payback and future savings. To date, the unmanned, stand-alone DIDION Metal Reclamation System has reclaimed over 2,000 tons of valuable metal.

Since the 1996 introduction of the DIDION® Rotary Dross Separator / Metal Reclaimer Systems



The reclamation system turns waste (top) into reusable metal (bottom).

within the aluminium industry, the DIDION equipment has processed over 4.5 billion pounds of aluminium dross and salt cake. This has resulted in excess of 270 million pounds (135,000 U.S. tons) of metal reclaimed that otherwise would have ended up in landfill. Through the use of in-house dross reclamation equipment, metal producers worldwide are seeing substantial environmental and financial benefits by keeping aluminium in their facility and out of landfill.

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