



MEIAL PROCESSING

Transforming Ores into a Refined Product

Metals make up the world around us. From structures to electronics, much of the world around us would not be possible without metals. Various processing techniques are used to transform metal-bearing ores into a refined metal product, ready to be transformed into various components for application.

PRO DUC TIO N METHO DS

Two primary approaches:



AKA: SMELTING

USED FOR: Sulphide ores

WORKS BY: Concentrating metal-bearing ores and then smelting them

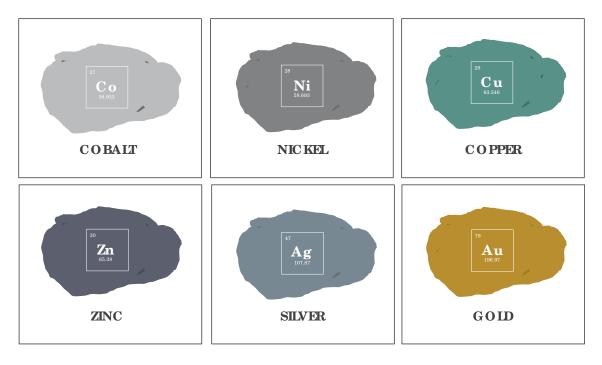


AKA: SO LVENT EXTRACTION ELECTRO - WINNING

USED FOR: Oxide ores and low-grade sulphide ores

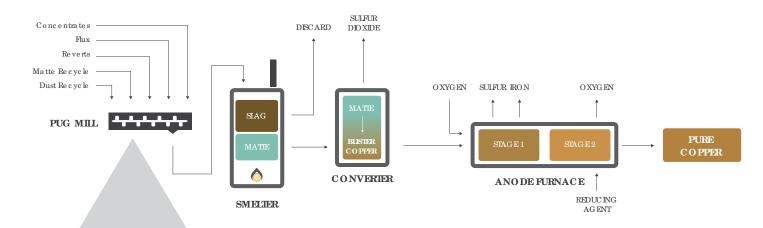
WORKS BY: Leaching metals from ore and then extracting metal from the impregnated solution

These approaches are often used to process:



PYRO MEIA LLURG Y

The pyrometallurgical approach for processing copperis illustrated below. Please note that the process may vary depending on the type of metal being processed.



EQ UIPMENT SPOTLIG HT: THE PUG MILL (PADDLE MIXER)

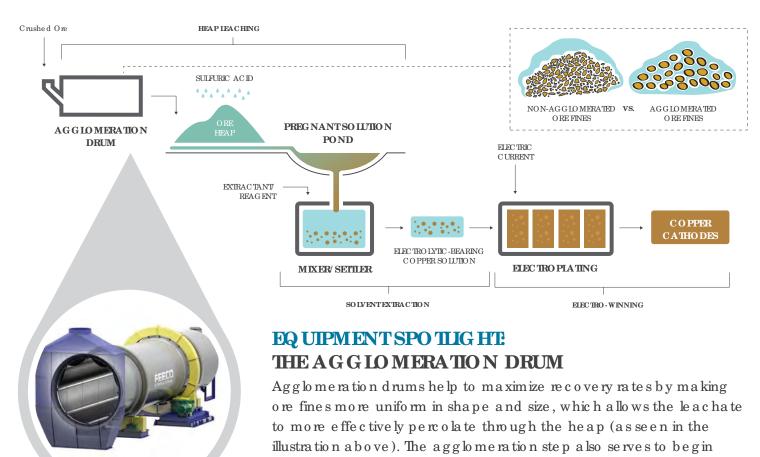
Pug mills serve to mix and condition feed components for the smelter. Mixing not only conditions the agglomerates and de-dusts the material, but it also ensures a uniform product.

Pug mills increase efficiency in the smelting process so much so, that companies often will purchase two mixers (one as a spare). Learn more at: FEEC O.com/copper-pug-mills/

FEECO Pug Mill

HYDRO MEIA LLURG Y

The hydrometallurgical approach for processing copperis illustrated below. Please note that the process may vary depending on the type of metal being processed.





FEEC O Agglomeration Drum

the leaching process prior to the heap. This increases overall efficiency and ultimately, recovery rates. Learn more at: FEEC O.com/copper-ore-agglomeration/



MEIAL PROCESSING SOLUTIONS

FEECO is a leader in metal and mineral processing. We provide custom pug mills for concentrates, and agglomeration drums for the heap leaching/SX-EW process. Our agglomeration drums are utilized in some of the world's largest and most environmentally advanced mines.

We can also provide all of the handling equipment to support the process. For more information, contact us today at FEEC O.com/contact



FEECO.com/mining