

USED EQUIPMENT FOR SALE

I. Smelting and Refining Equipment

Four Induction Furnaces, complete \$ 51,000

(1) 200 pound unit

(2) 300 pound units

(1) 500 pound unit

Complete with Power Unit, Hydraulic unit (tilts the furnaces),

Cooling unit (valved to serve all four furnaces) and extra crucibles

Speedy-Melt T200 Gas-fired Furnace \$ 15,000

With hydraulic lift, completely rebuilt and relined

with ventilation system and fan and (2) 250 lb Starbide crucibles

Carbon Stripping Unit, Trailer mounted \$ 4,500

with (2) Zadra 3' x 4' electrowinning cells,

Strip vessels, acid wash vessel, and electric solution heater

Allis-Chalmers Carbon Regeneration Kiln \$ 6, 500

with carbon tank and hopper

Miscellaneous:

(two) 350 Ampere rectifiers \$ 2,500

(two) plate heat exchangers \$ 2,000

Large exhaust fan \$ 1,500

Boiler, 1.8 million BTUs \$ 1,000

Old melt furnace \$ 1,000

(two) large cone slag molds \$ 750

(two) partially completed electrowinning cells \$ 500

(two) solution pumps \$ 500

II. The Homestake Pilot Mill

The Homestake Pilot Mill is a complete four-ton-per-hour (4 tph), modular, "plug-and-play" mineral processing plant that uses only water to recover very fine grained gold and other heavy mineral grains. Three well-known, former Homestake metallurgists helped design this mill in 1994. It was built for portability, quick set-up, start-up, and re-configuration, and reliability in remote areas. All the components (jaw crusher, conveyors, ball mill, etc.) are matched in terms of their inputs and outputs, and they can be easily switched around to achieve the highest recoveries of heavy metals.

Although the Homestake Pilot Mill is a complete mineral processing plant, it is called a "pilot" mill because it is often used as an intermediate step between metallurgical bench testing and full-scale production with much larger equipment.

For small gold mines, this is a full-production unit.

The crushing circuit consists of a 6' x 7' grizzly on a 1.5 ton feed bin over a 5.6' x 18" feed conveyor controlled by a three-phase ABB motor controller (Model ACS 200). A 12.5' x 18" conveyor with a Dodge TXT-225 transmission delivers feed to an 8" x 15" Pacific jaw crusher. A 2' x 8' vibrating screen deck (with one extra deck) feeds oversize to a Morse Bros 5" x 6" jaw crusher and undersize to an 11" x 12" roll mill (without frame).

The grinding circuit consists of a Hardinge 3' x 36" conical ball mill with like-new 1" Linatex liner, a Krebs D4BB12 ceramic-lined hydrocyclone (the mill comes with an optional dry feed attachment), 4 tons of grinding balls, and a Galligher 1.5" VRA-100 slurry pump.

The classification and recovery circuits include a Bendalari 18" x 18" jig (with extra diaphragm), a Linatex Model D1440 10" hydrocyclone, a Reichert Mark-II single start spiral classifier and a Reichert LG-7 triple-start spiral classifier, (both designed for fine-grained gold recovery), and a Wilfley 6A mineral separation table. Additional types of Reichert spiral classifiers are also available.

Extra pumps include an Allis Model 600 1.5" x 2" horizontal pump; a 2" Sandpiper slurry pump; and a Galligher Model D075 SRA 100 sump pump.

The plant includes matched three-phase motors, belts, panel-mounted Allen-Bradley magnetic motor starters, 4/4, 10/4, and 12/4 SOW cord, comprehensive engineering data and specifications, and spare parts.

A self-contained Caterpillar 90 kw Genset is also available and consists of 3304 diesel engine that powers a Lima SR-4 three-phase alternator that feeds distribution panels and two transformers (45 kva and 10 kva).

All equipment is in very good to newly-rebuilt condition