

7,000 TPD CIL Gold Plant With Crushing Grinding Gravity CIL and Lab Circuits

[Inventory ID #1414587]



7,000 TPD Crushing Grinding Gravity and CIL Plant with Laboratory

Description: This ore processing and concentrating plant was designed to process up to 7,000 TPD of ore. It combines 3 stages of crushing with a grinding ball mill. It is complete with a Sepro Falcon gravity circuit and a CIL leach circuit.

The CIL circuit max capacity does not match the crushing, grinding, and gravity circuit capacity; however it could be expanded or a flotation circuit could be added.

Dismantling of the equipment has already started and it can be completely dismantled, packaged, and shipped from its current location in North America.

The plant is available for inspection with advance notice.

The following is a basic equipment list which is to be verified with purchaser.

Crushing And Stockpiling

- Primary Crusher:
 - Jaw Crusher 42in x 50in and Drive
 - Make: Universal Engineering
 - Model: 1185-79A-S
 - Serial: 149x20
 - With Jaw Crusher Hydraulic Pack
 - Grizzly Feeder Hydraulic Pump
 - Lube Unit
 - Lube Air Cooler
 - Adjust Motor & Brake
 - Vibrating Grizzly Feeder - 50in Wide x 20ft Long x 5in Opening c/w Drive



- Product Crusher Collecting Conveyor
 - Belt Conveyor: 36in Wide x 190ft Long x 16ft Lift x 380 FPM c/w Drive
- Discharge Conveyor
 - Belt Conveyor: 48in Wide x 34ft Long x 4ft Lift c/w Drive
- Secondary Crusher:
 - 5.5ft Standard Cone Crusher and Drive
 - Make: FL Smidth/Excel
 - Model: Raptor XL400
 - Cone Crusher Hydraulic Pack
 - Cone Crusher Lube Unit
 - Cone Crusher Lube Air Cooler
 - Cone Crusher Adjust Motor & Brake
 - Feed Conveyor:
 - 30in Wide x 92ft 8in Long x 16ft 9in Lift x 325 FPM c/w Drive
 - Discharge Conveyor:
 - Belt Conveyor: 36in Wide x 35ft Long x 5ft Lift c/w Drive
 - Sizing Screen - Vibrating Double Deck Screen With Drive
 - Size: 6ft Wide x 20ft Long
 - Sizing Screen Discharge Conveyor
 - Belt Conveyor: 60in Wide x 24ft Long x 0ft Lift c/w Drive
- Tertiary Crusher:
 - 5.5ft Standard Cone Crusher and Drive
 - Make: FL Smidth/Excel
 - Model: Raptor XL400
 - Cone Crusher Hydraulic Pack
 - Cone Crusher Lube Unit
 - Cone Crusher Lube Air Cooler
 - Cone Crusher Adjust Motor & Brake
 - Feed Conveyor:
 - Belt Conveyor: 30in Wide x 125ft Long x 22ft Lift x 325 FPM c/w Drive
 - Recycle Conveyor:
 - Belt Conveyor: 36in Wide x 18ft Long x 4ft Lift c/w Drive
 - Sizing Screen - Vibrating Double Deck Screen with Drive
 - Size: 6ft Wide x 20ft Long
 - Sizing Screen Hydraulic Unit
 - Sizing Screen Discharge Conveyor
 - Belt Conveyor: 60in Wide x 24ft Long x 0ft Lift c/w Drive



- Tertiary Crusher:
 - 5.5ft Standard Cone Crusher and drive.
 - Make: FL Smidth/Excel
 - Model: Raptor XL400
 - Cone Crusher Hydraulic Pack
 - Cone Crusher Lube Unit
 - Cone Crusher Lube Air Cooler
 - Cone Crusher Adjust Motor & Brake
 - Feed Conveyor:
 - Belt Conveyor: 30in x 125ft Long x 22ft Lift x 325 FPM c/w Drive
 - Recycle Conveyor
 - Belt Conveyor: 36in x 18ft Long x 4ft Lift c/w Drive
 - Sizing Screen - Vibrating Double Deck Screen With Drive
 - Size: 6ft Wide x 20ft Long
 - Sizing Screen Discharge Conveyor
 - Belt Conveyor: 60in Wide x 24ft Long x 0ft Lift c/w Drive
- Fine Ore Stacking Conveyor:
 - Belt Conveyor: 30in Wide x 370ft Long x 65ft Lift x 325 FPM c/w Drive
- 2000kVA Transformer:
 - High Voltage: 4160 Volt
 - Low Voltage: 480 Volt

Grinding, Gravity Concentration

- 18.4ft Dia. x 25.63ft Wet-Grind Ball Mill
 - Make: Rauma Repola (Metso)
 - Discharge: Overflow
 - Drive: Dual 2000kW Motors
 - Complete With:
 - Demountable Trunnions
 - Feed Chute with Abrasion-Resistant Liner
 - Steel Discharge Trunnion Liner
 - (2) Mill Bearing Assemblies with Base Plates
 - Temperature Detectors
 - External Hydrostatic Oil Lube System
 - Discharge Trommel
 - Gear & Pinion
 - Gear Guard Assembly
 - Pinion Bearing Assembly
 - Gear Spray Lube System
 - Metallic Mill Liners



- Reducer with High & Low Speed Couplings & Guards
- Mechanical Inching Drive
- Jacking System with Hydraulic Pumps & (2) Jacking Cradles

- Trunnion High Pressure Lube System
 - High Pressure Pump/Motor
 - Complete with: HP Pump, LP Pump, Heater and a Heat Exchanger - 100 Gallon Reservoir

- Trunnion Low Pressure Lube System
 - Low Pressure Pump/Motor
 - Complete with: HP Pump, LP Pump, Heater and a Heat Exchanger - 100 Gallon Reservoir

- (2) Gearbox Lube Systems Complete with Heater and Heat Exchanger

- Girth-Gear Lube System
 - Includes Air-Operated Spray for Bull Gear, Pump, Heater, Heat Exchanger and Drum - 1120 Gallon Reservoir

- Ball Mill Feed Conveyor
 - Belt Conveyor: 30in Wide x 324ft Long x 28ft Lift x 325 FPM c/w Drive

- Semi-Batch Concentrator
 - Make: Sepro Falcon SB5200
 - Capacity: 200-400 TPH
 - PLC and VSD Included

- (4) Sepro Falcon C4000 Continuous Concentrators
 - Capacity: 45-100 TPH Each
 - Concentrating Area: 4,095in² Each
 - Fed from Cyclone Overflow
 - Includes: PLC Control, VFDs, Concentrating and Tailings Launderers

- Fine Ore Feeders
 - Make: Kinergy KDF-36-HDDT Vibrating Feeder with VFD

- Mill Concentrator Sizing Screen
 - Make/Model: Deister BFO-1616
 - Size: 6ft Wide x 16ft Long
 - Deck: Single
 - With: Feedbox, Under Launderers, Poly Screen Deck, & Spray Bar

- Atlas Copco LE 5 Air Compressors
 - Required for Operation of Throttling Valves that Regulate Heavies Underflow Rate

- Cyclones and Distributor
 - Make/Model: Cavex 650CVX

- (2) Cyclone Feed Pumps
 - Make/Model: Weir ASH 300MCH Rubber-Lined Slurry Pump
 - Size: 14in x 12in
 - With Variable Speed Drive

- Cyclone Overflow Trash Screen
 - Make/Model: Sisetec HDS 612-6
 - Size: 6ft Wide x 12ft Long

- (2) Tailings Pumps
 - Make/Model: Warman 200EMRRRGM Rubber Lined Slurry Pump
 - Size: 10in x 8in
 - With Variable Speed Drive

- (2) 4in Vertical Sump Pump
 - Make/Model: Weir 1000 RVSP
 - With: Drive Components & Motor

- Concentrator Feed Sampler
 - Secondary Sampler (Primary Sampler Included with C4000)

- (2) Building Exhaust Fans
 - Make: Greenheck GRE SBE3L54100

- 460 Volt, 3-Phase

- (2) Building Electrical Room Fan
 - Make: Greenheck GRE BFC21230
 - 460 Volt, 3-Phase

- Building Control Room Fan
 - Make: Greenheck GRE SQD90D
 - 460 Volt, 3-Phase

CIL Area

- Kemix Interstage Screen
- CIL Tanks Agitators
 - Agitator Drive & Motor, Shaft & Rubber-Lined Dual Impellers suitable for agitation in 24ft Dia. x 25ft Pulp Depth, 1ft Freeboard; c/w Shaft Driven Lube Pumps
- (2) CIL Discharge Pumps
 - 4in x 3in Horizontal Centrifugal Pump With Variable Speed Drive
- CIL Area 30kVA Transformer
 - High Voltage: 480 Volts
 - Low Voltage: 208Y/120 Volts
- CIL Area Motor Control Center
- CIL Warman Feed Pump
- Cyanide Destruct Blower
 - Make/Model: Kaeser FB 620 C
 - Flow Rate: 1,245 SCFM
- Loaded Carbon Screen
 - Sisetec DFS 48
- Crane 3 Ton Manual Chain Hoist
 - Make: Norelco Industries
- Chain Hoist Leach Stump 1 Ton
- Chain Hoist CIL Tanks
- CIP Discharge Pump
 - Warman Horizontal Pump
- Warman Vertical Sump Pump
 - Model: 65QVSP

Gold Refinery and Carbon Regeneration Area

- Deister No.14 Rougher Shaking Table
 - Capacity: 1.25 TPH (Coarse Sand)
 - 2-4 GPM @20 PSI Water Required



- Deister 15-S Cleaner Shaking Table
 - Capacity: 50kg/hr. (Fine Sand)
 - 0.5-1 GPM @20 PSI Water Required
- Slag Jaw Crusher
 - Small Lab Jaw Crusher Capable of Producing Minus 6,350 Micron Material c/w Feed Hopper, Motor, Stand & Collection Drawer
- Slag Cone Crusher
 - Small Lab Cone Crusher Capable of Producing 1,700 Material c/w Feed Hopper, Motor, Stand & Collection Drawer
- Cathode Handling 1 Ton Crane
- Gold Concentrate Filter Press
- 3ft x 24ft Carbon Stripping Column
- Acid Wash Column
- Carbon Regeneration Kiln
- Miscellaneous Pumps
- 53BTX Duplex Safety Strip Filter
- Strip Vessel Recovery Exchanger
- Strip Solution Tube Boiler
 - Cleaver Brooks Boiler Tube 2.4 MM BTU, 4-3000
- Strip Solution Heat Exchanger
- Nome Engineering Strip Solution Tank
- Tranter Cooling Water Heat Exchanger
- (2) DSM Carbon Dewatering Screen
- (2) Regeneration Kiln Feed Screw
- (2) Carbon Kiln Combustion Blower
- (2) Carbon Kiln Dust Collector
- Cooling Water Heat Exchanger

Laboratory

- (2) Donaldson Torit 108MBT-10 Baghouse
- Ohaus Champ II Scale
- Legend Pressure Filter
- Grieve TBH-500 Truck Drying Oven
 - 24kW, 34 Amp, 460V, Max Temp 500°
- (4) Falcon SB40 Gold Concentrators
 - Complete with Automated Feeding and Collecting System
- Booth Pressure Filter
- Fume Hoods
- (2) Labtech Essa Pulverizer
- Stainless Pans
- Rocklabs Jaw Crusher
- Rocklabs MK-8 Pulverizer
- Grieve SB-350 Shelf Oven
 - 12kW, 25 Amp, Max Temp: 350°

- Hood
 - Legend Fire Assay Crucible Shaker
 - 24 Crucible Pallet Capacity
 - Leco Assay Furnace
 - (3) Assay Furnace & Hood
 - Ro-Tap RX-29 Sieve Shaker w/Sieves
 - Stainless Pans & Splitter
 - Stainless 3 Basin Sink
 - Sieves
 - Grobet USA Roller Press
 - Barnstead Steem III Glass Still
 - Grieve SA-350 Drying Oven
 - (2) Donaldson Dust Collector Controllers
 - Tech Lab Drying Oven
 - (2) Digital Scales
 - Sieves
 - Gibson Company Sieve Shaker
 - Labconco Protector Perchloric Fume Hood
 - Labconco Protector Laboratory Fume Hood
 - Glassware
 - Mixers & Smart Spectro Colorimeter & pH Meters
 - Cahn Ventron 21 Automatic Electrobalance
 - Cahn C-31 Microbalance
 - Leco CS-244 Induction Furnace
 - Perkin Elmer Atomic Absorption Analyzer
 - Air Compressor
 - (2) 400kVA Generators with Cat Engines
 - 800kVA Generator with Cummins Engine in Trailer
 - Water Treatment Plant
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- Location: Alaska

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