



Martin

MINING

CAPABILITIES

Iron

Precious Metals

Non-Ferrous

Coal

Salt

Sand

Quarry

Aggregate

Phosphate

WWW.MARTINSPROCKET.COM



Inventory

We maintain large inventories to ensure superior service to all customers.

Customer Service

When you call Martin a person answers your call every time.

Complete Manufacturer

We manufacture what we sell, which means we control the quality, inventory levels, delivery and cost of our products.

Point-of-Sale Service

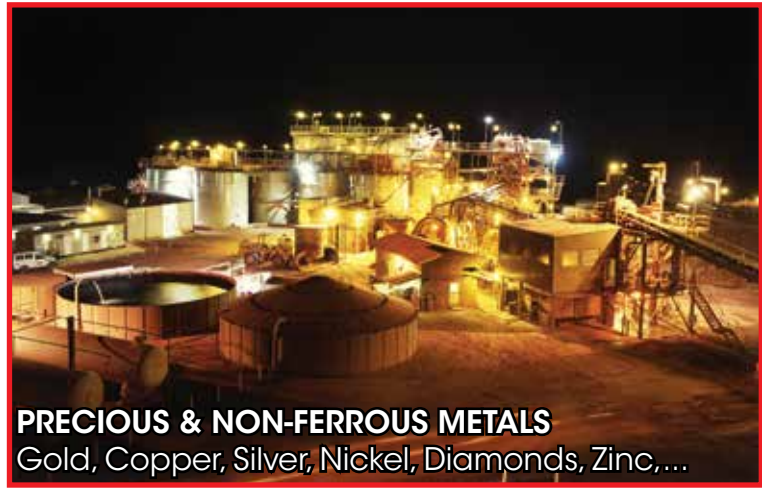
We build our inventories, services and capabilities to meet the market demands of each area our manufacturing locations serve.

After-Hour Emergencies

Each of our locations have people on-call for stock, altered, and made-to-order products, 24 hours a day, 7 days a week, 365 days a year.

Superior Field Support

We have field professionals who understand our products, processes and services. They are available to help better match our offerings with your specific needs.



PRECIOUS & NON-FERROUS METALS

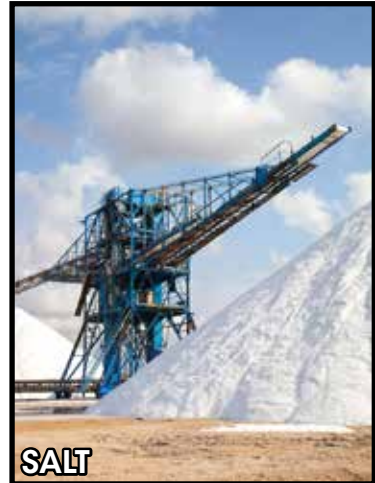
Gold, Copper, Silver, Nickel, Diamonds, Zinc, ...



POTASH / PHOSPHATE



COAL



SALT



QUARRY / AGGREGATE



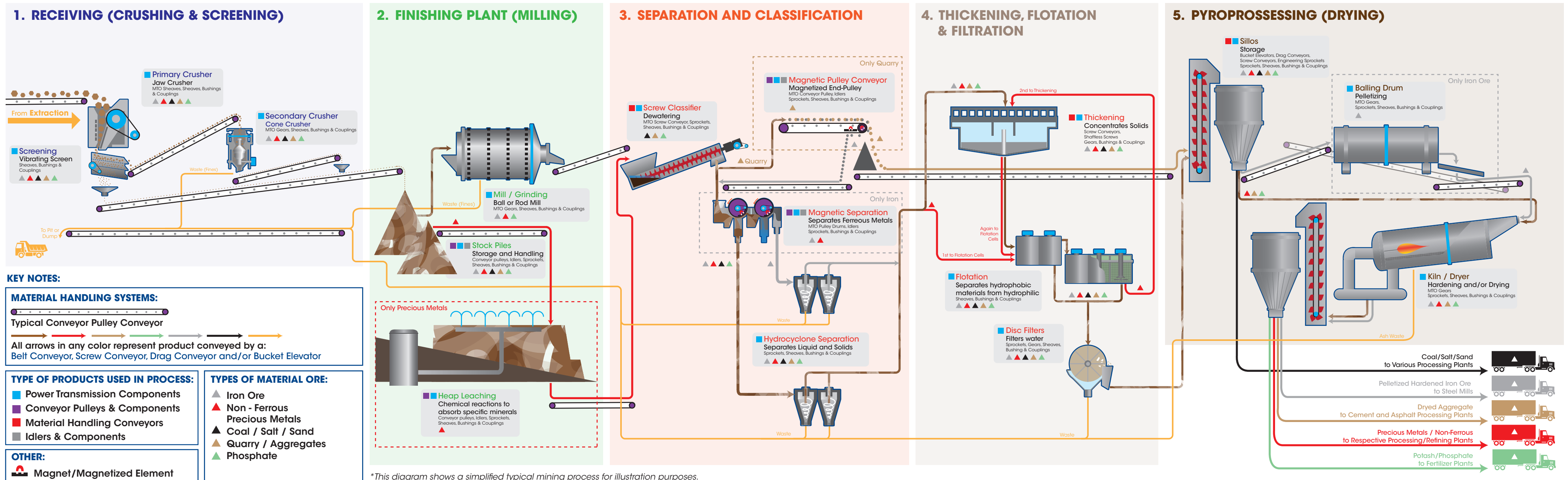
IRON ORE

PRODUCTS

	Roller Chain Sprockets	Engineering Class Chain Sprockets	Gears	MTO Gears	Sheaves	MTO Sheaves	Bushings	Couplings	Bucket Elevators	Screw Conveyors	Drag Conveyors	Conveyors Pulleys	MTO Conveyors Pulleys	Idlers
Conveying	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate			Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate							Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	
Primary Crusher				Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate									
Screening				Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate									
Secondary Crusher				Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate									
Mill/Grinding				Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate									
Stock Piles	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate			Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate							Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	
Heap Leaching	Precious Metals			Precious Metals	Precious Metals							Precious Metals	Precious Metals	
Screw Classifier	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate			Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate				Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate					
Magnetic Pulley Conveyor	Quarry / Aggregate			Quarry / Aggregate	Quarry / Aggregate							Quarry / Aggregate	Quarry / Aggregate	
Magnetic Separator	Iron			Iron	Iron							Iron	Iron	
Hydrocyclone Separation	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate			Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate									
Thickening				Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate									
Flotation				Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate									
Disc Filters	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate			Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate									
Silos	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate			Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate							Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	
Balling Drum / Pelletizing				Iron	Iron									
Kiln / Dryer				Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate									
Waste Handling	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate			Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate							Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	Iron, Precious Metals, Coal / Salt, Quarry / Aggregate, Potash / Phosphate	

APPLICATIONS

Martin MINING PLANT FLOW DIAGRAM



Primary Crusher

The ore is first crushed in the primary crusher (typically a jaw crusher), allowing it to be crushed into smaller sizes. This crusher typically requires a pair of large MTO sheaves.

Martin products used: MTO Sheaves, Sheaves, Bushings & Couplings.

Screening

After the primary crushing, the ore is separated by size through a screening application. The remaining ore lumps that are too large will go back through the Belt Conveyor to the primary crusher and/or secondary crusher where the process is repeated until the ore is ideal size.

Martin products used: Sheaves, Bushings & Couplings.

Secondary Crusher

The remaining ore lumps that are still too large to go through screening, will go through the secondary crusher consisting of: cone crushers, jaw crushers, or gyratory crushers. The cone crushers typically require large MTO gears to allow rotation of the cone, powered by sheaves and belts.

Martin products used: MTO Gears, Sheaves, Bushings & Couplings.

Waste

Waste from the above process, known as fines, is then transported back to the mining pit by Belt Conveyors or trucks.

Martin products used: Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings & Couplings.

Mill/Grinding

Here, small ore lumps are conveyed to either the Ball or Rod mill where the lumps are milled to a dirt consistency. These mills typically require large MTO gears to allow rotation of the large cylindrical body.

Martin products used: MTO Gears, Sheaves, Bushings & Couplings.

Stock Piles

A landing spot for product until ready for the next process.

Martin products used: Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings & Couplings.

Heap Leaching

Process where dirt is placed into a drip system and the top is soaked with chemicals used to separate precious metals that are then collected at the bottom.

Martin products used: Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings & Couplings.

Waste

The waste is returned to the mining pit or taken to a dump site/tailing.

Martin products used: Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings & Couplings.

Screw Classifier

This part of the plant's function is to separate the desired product from organic or other materials. The Screw Classifier is a MTO screw conveyor, which dewater and settles the coarse particles.

Martin products used: MTO Screw Conveyor, Sprockets, Sheaves, Bushings & Couplings.

Magnetic Pulley Conveyor

In Quarry/Aggregate plants the product is conveyed over a magnetized pulley where ferrous material particles are separated from the milled ore.

Martin products used: MTO Magnetic Conveyor Pulleys, Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings & Couplings.

Magnetic Separator

This application typically has 2-3 magnetized conveyor pulleys that with the use of water, cleans and separates ferrous materials from the milled ore.

Martin products used: MTO Magnetic Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings & Couplings.

Hydrocyclone Separation

Separation and sorting of particles based on density - by process of liquid suspension. This standard Hydrocyclone application requires various power transmission components.

Martin products used: Sprockets, Sheaves, Bushings & Couplings.

Waste

The waste goes to mining pit or dump site/tailing.

Martin products used: Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings & Couplings.

Thickening

Similar to the thickening sludge tanks found in water treatment facilities, the mud is placed into a thickening tank where product sediment concentrates at the bottom.

Martin products used: Gears, Bushings & Couplings.

Flotation

The process of selectively separating hydrophobic materials from hydrophilic materials, allowing valuable metals to be recovered. Precious metal plants have an initial flotation step before thickening.

Martin products used: Sheaves, Bushings & Couplings.

Disc Filters

Specially designed disc filters dewater the product.

Martin products used: Sprockets, Gears, Sheaves, Bushings & Couplings.

Waste

The waste is returned to the mining pit or taken to a dump site/tailing.

Martin products used: Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings & Couplings.

Silos

Similar to the thickening sludge tanks found in water treatment facilities, the mud is placed into a thickening tank where product sediment concentrates at the bottom.

Martin products used: Bucket Elevators, Drag Conveyors, Screw Conveyors, Engineering Class Sprockets, Sprockets, Sheaves, Gears, Bushings & Couplings.

Balling Drum / Pelletizing

The iron ore is fed to balling discs or drums and produces green pellets ranging in size from 9-16mm. The green pellets are then fed to the induration machine.

Martin products used: MTO Gears, Sheaves, Bushings & Couplings.

Kiln / Dryer

Here the product is dried, the kiln has large MTO gears that allows the rotation of the cylinder body of the kiln. The dried and hot products are later cooled in cylinders and later stored and distributed to their respective processing/refining plant.

Martin products used: MTO Gears, Sheaves, Bushings & Couplings.

Waste

Ashes are taken to the dump site/tailing.

Martin products used: Conveyor Pulleys, Conveyor Pulley Components, Idlers, Idler Components, Sprockets, Sheaves, Bushings & Couplings.

Martin Products at Work in the Mining Industry



Roller Chain Sprockets



Engineering Class
Sprockets



Gears



MTO Gears



Bushings



Sheaves



MTO Sheaves



Couplings



Bucket Elevators



Clean Flight® Wing
Pulleys



Screw Conveyors



Shaftless Screw Conveyors



Drag Conveyors



Conveyor Pulleys



Idlers



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