

MAGNETIC DRUM SEPARATOR



Introduction

Magnetic Drum Separators are of self-cleaning type and provide continuous removal of ferrous contamination from a wide range of free-flowing bulk and granular materials in high-volume applications. Master Magnets Drum Separators are used in applications where there is a high throughput of material to be processed and where there is a need to extract smaller ferrous particles from a given product stream



Drum separators are available in a wide range of sizes to suit a customer's specific throughput requirements and can either have an internal permanent or electro magnet system depending on the application. Magnetic drum separators provide an efficient means for extracting ferrous material from dry, bulk products in free-flowing processing systems.



Working

- Magnetic Drums are constructed with a 180 degree stationary magnet system, around which a cover revolves. Material is fed onto the drum cover at the leading point of the magnet section. Magnetic materials will adhere to the drum cover as it revolves and will then be discharged behind the normal trajectory. Non-magnetic materials will free-fall forward following their normal trajectory.

- When material flows onto the drum, a stationary magnetic assembly inside the unit's shell captures tramp metal and holds it securely to the drum's stainless steel surface. With contaminants removed, the good product falls freely to a discharge point. As the drum rotates, cleats sweep the ferrous debris through and out of the magnetic field. The tramp metal is discharged separately, creating continuous self-cleaning separation



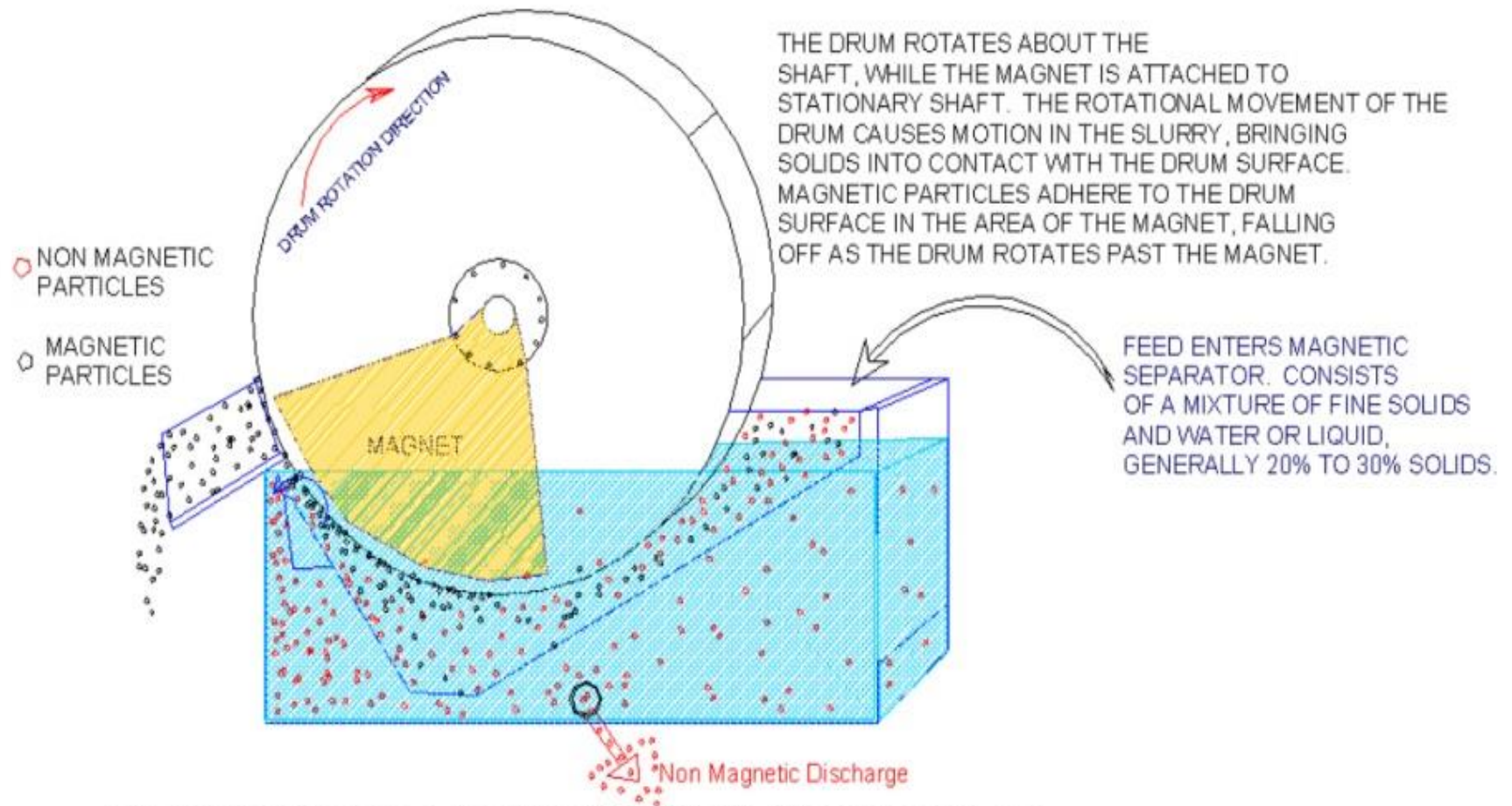
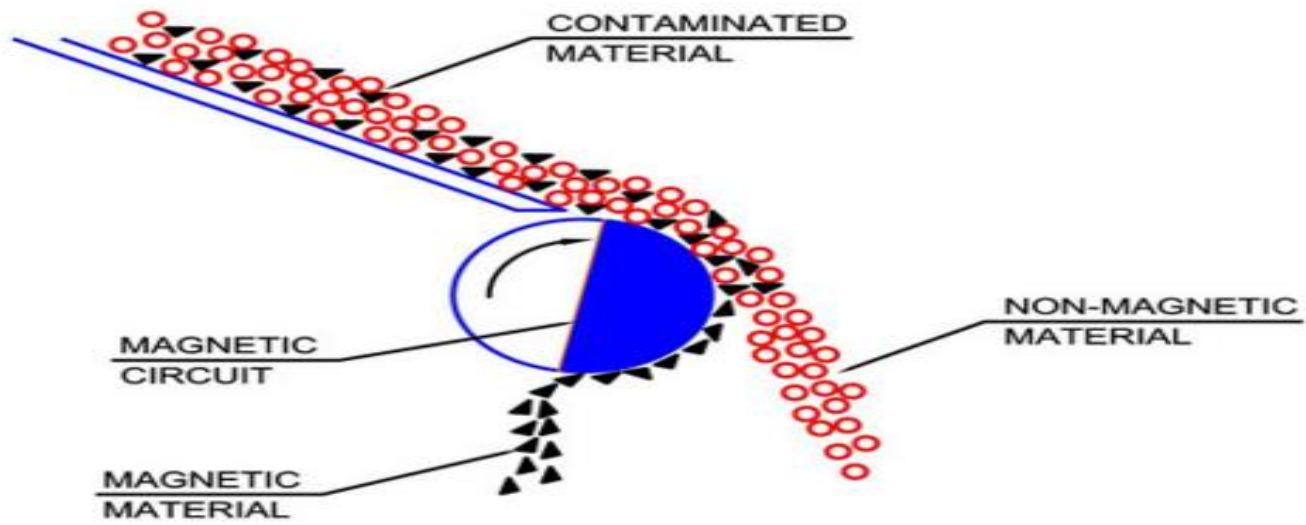
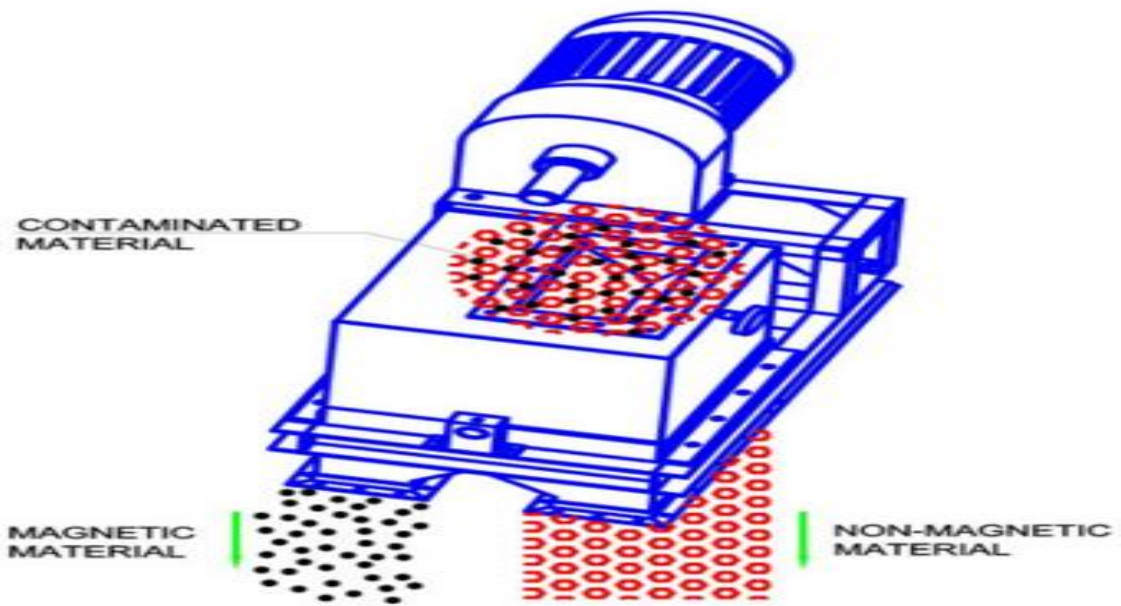


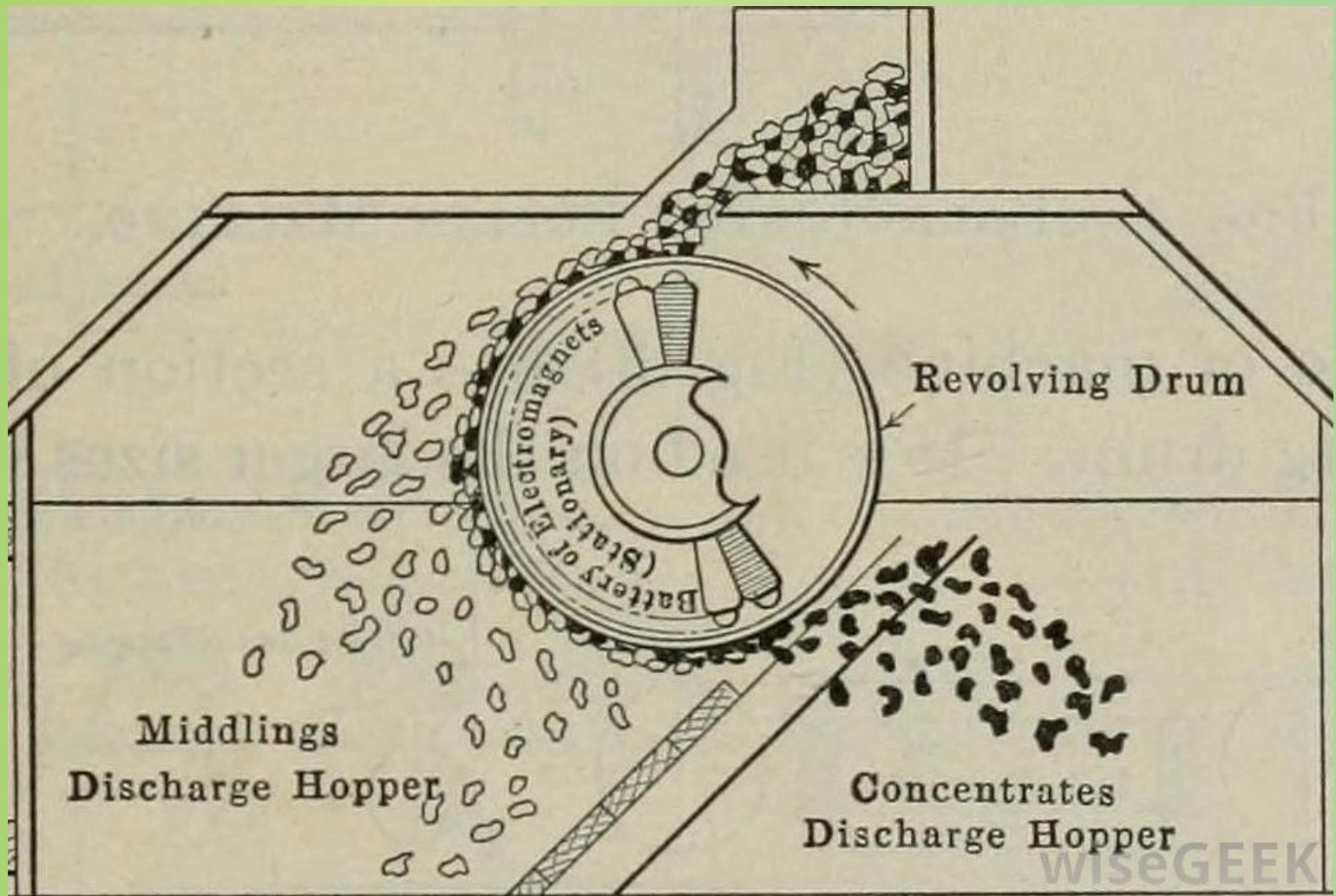
ILLUSTRATION OF A WET DRUM MAGNETIC SEPARATOR



Industrial Uses

- Permanent Drum type Magnetic Separator is most useful for separating tramp iron from non magnetic material processed in bulk quantity, for the purity of end products, recovery of metal having commercial value and protection of processing plant and machinery.
- These are widely used in all the processing industry for separation of iron contamination from Minerals, Chemicals, Food, Flour, Plastics, Grains, Sand, Cement, Fertilizers, Abrasives, Glass, Slag, Ores, Rock, Refractory and many other products.

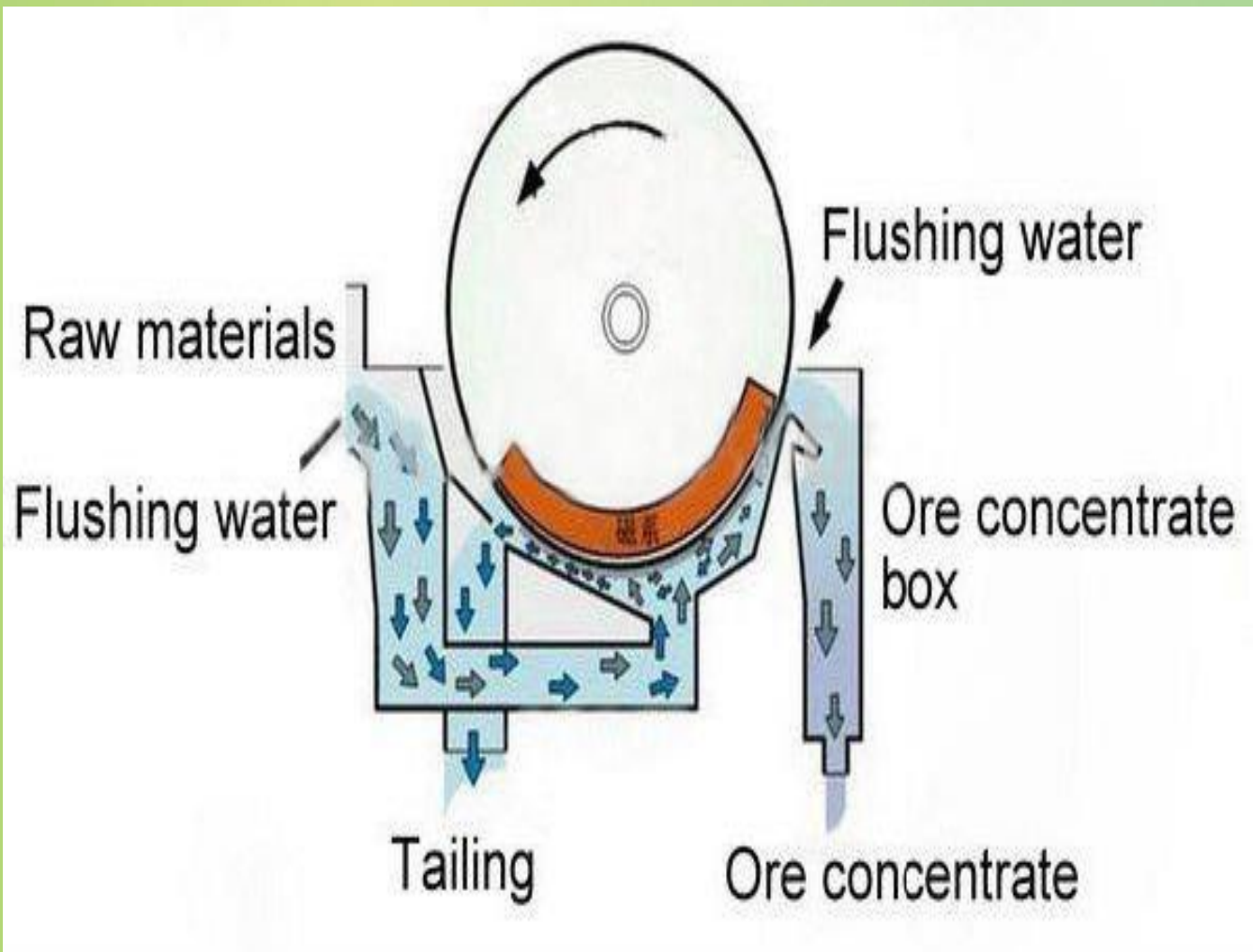
- Drum Separators can be provided as the drum only or as a complete assembly with the housing and drive included.
- A variety of sizes and strengths are available for many applications
- Rare Earth, Neodymium is 5 times stronger than Ceramic Magnets and can remove micron sized particles.
- Magnetic drum separators provide an efficient means for extracting ferrous material from dry, bulk products in free-flowing processing systems.



Applications

- Minerals and Chemicals
- Food and Flour
- Plastics
- Grains
- Sand
- Fertilizers
- Abrasives
- Glass
- Slag
- Ores

- Rock
- Refractory
- Removal of ferrous contaminants from glass cullet
- Recovery of scrap ferrous metals in ELV plants
- Removal of ferrous particles from powder or granular materials
- Recovery of ferrous materials from incinerator bottom ash
- Removal of fine ferrous particles from foodstuffs
- Separation of ferrous in slag processing applications
- Recovery of ferrous metals from municipal solid waste



Advantages

- Helps in removing ferrous particles from any non ferrous powder and granules
- Ideal for plastic, food, fertilizer, pharmaceutical, chemical, glass and continuous process plants
- Provide utmost protection to crushers, grinders, pulverizes, and allied equipment
- Can be used for mining and ore dressing industry
- Eliminate fire hazards and explosions in plants dealing with explosive material.
- Save money, time and labour by reducing break-down time and improving quality



Features

- Designed for continuous separation and self cleaning. Ideal for high-flow, heavy-contamination applications. It comes with Stainless steel drum and mild steel or stainless steel housings
- Maximum Recovery of Ferrous Metals
- Minimum Maintenance
- They require minimum space and are simple to operate.
- They are flexible enough to be applied for various purposes

CONTACT

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