



PMT

PMT

"PMT" the name in Iron Separation

Magnetic Separators

POWDER INDUSTRY

Prevent Machinery Damage

Safeguard product from contamination | Improves Quality of products

PMT offers complete line of Magnetic Separators for the Powder Industry. **PMT** designs and manufactures variety of magnetic separators used throughout powder industry to remove tramp iron from products and prevent damaging of processing machines & equipment. The powder industry involves processing of dry bulk solids into powder form. For instances grains into flour, guar gum into gum powder, whole spices into spices powder etc. The powder industry also provides raw material for further processing of the final goods for various industries like pharmaceuticals, chemicals, plastics etc. There are many different types & qualities of materials that will be processed which means they will have different steps to their processes but will have one thing in common i.e. possibility of unwanted iron/ferrous particles in the processed powder.

It is very important that the final product is of best quality and free from iron/ferrous particles. Unwanted Iron can occur at various stages of the processing and if it ends up in the final product, then will negatively affect both the product quality and image of the company. One major problem due to presence of damaging iron is it can cause damage to processing machine/equipment resulting in repair costs and downtime resulting in loss of money for the company. If unwanted iron is present in

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Manufacturers of Magnetic Separators & Equipments.

finished goods & if this contaminated product is ingested by the consumer / end user, it will be harmful for the consumer as well damage the reputation of company resulting in reduction of sales and profits. Magnetic Separators are the first line of defence to remove damaging tramp iron in the process flow that can damage equipment and contaminate product. Our magnetic separators can be installed for any type of material (solid, moist or dry) and in any type of process including gravity or free-flowing, belt or conveyer fed, pneumatic conveyors.

The damaging iron / unwanted iron problems can be solved using PMT Magnetic Separators. PMT have developed a range of Magnetic Separators for Powder Industry: Plate Magnet, Grill Magnet, Rod Magnet, Hump Magnet, Drawer Magnet, Drum Magnet, Box Type Drum Magnet, Pulley Magnet, Dual Door Magnet, Suspension Magnet, Pipe Magnet, Magna Roll and Rotary Grill Magnetic Separator. The magnetic separators are made up of permanent magnets of different strengths and designs depending on the application.

PMT's vast experience of almost 3 decades in the area of Iron Separation will help in selection of Magnetic Separator suitable for a specific application and area in your process line for efficient and effective solution of iron separation.





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PRODUCTS

Plate Magnet

- Economical & Maintenance Free** - No operating cost
- Simple & Easy installation** - Existing processing line/system
- Versatile** - Standard and Customized sizes
- Durability** - SS 304 Construction also available
- High intensity Gemini Rare Earth Powerful Magnets** - Removal of fine iron
- Easy Cleaning** - Handle & Bearing arrangement option



Handle Bearing Arrangement



Grill Magnet

- 3P** - Ensures product purity, protects equipment & prevents costly downtime
- Heavy Duty & High strength**- SS 304 Rugged construction & Gemini Rare earth Powerful Magnets
- Flexibility** - Customized Spacing of magnetic tubes and number of layers/deck
- Easy installation** - In the existing processing line (Hoppers/Chutes/feeders)
- Easy to Clean** - Fast and easy cleaning of iron particles
- 3E** - Economical, Efficient & Effective Magnetic Separator



Round, Square / Rectangle Grill



Rod Magnet

- Maintenance Free**, very low Capex requirement & no operating cost
- Durability** - SS 304 Rugged construction & Gemini Rare earth Powerful Magnets
- Easy installation & Less space** requirement - In the existing processing line
- Easy to clean** - Fast and easy cleaning of iron particles
- 3E** - Economical, Efficient & Effective Magnetic Separator



Drum Magnet

- Self-Cleaning Magnetic Separator** - Automatic cleaning
- No Bridge/Choke** of the process material
- Continuous working** - 24/7 operation
- High Intensity and Gemini Rare Earth Powerful magnets** - Greater level of iron separation
- Durability** - SS 304 outer drum and gun metal bush
- Flexibility** - Customized size available as per the specific needs of end user



Box Type Magnet

- Self-Cleaning Magnetic Separator** - Automatic cleaning
- Continuous working** - 24/7 operation
- Plug & Play** - Ready for operation from Day 1
- Durability** - SS 304 Outer Drum and Gun Metal Bush
- Flow of Material** - Adjustable Hopper tray
- Flexibility** - Customized size available as per the specific needs of end user



Hump Magnet

- Easy to Clean** - Hinged Magnet Plates - swung open for cleaning
- Zig-Zag Design** - Slows down the product flow volume for effective iron separation
- Easy Installation** - Existing processing line/system
- Flexible** - Flexibility to select half hump or larger structure
- Dual protection** - 2 Magnet Plates for better performance in capturing of iron particles



Suspension

- Maintenance Free & No Operating cost** – No Power Consumption
- Easy installation** - In the existing setup over the belt conveyor
- Powerful Strontium Ferrite Magnets** with reach of up-to 5 inches
- Flexibility** – Customized size available as per the width of the belt and specific needs of end user



Dual Door Magnet

- Maintenance Free & No Operating cost** – No Power Consumption
- Easy installation** – In the existing setup & availability of flanged housing
- No Bridge/Choke** – Centre deflector and ease of flow
- Easy to Clean** – Dual Magnet Doors for cleaning
- Dual protection** – 2 Magnet Plates for better performance in capturing of iron particles



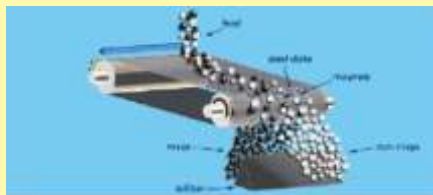
Drawer Magnet

- Maintenance Free & No Operating cost** – No Power Consumption
- Easy installation** – In the existing setup & availability of flanged housing
- Durability** - SS 304 Rugged construction for Drawers and Magnetic Rods
- Effective & Efficient** – High Strength Gemini Rare earth Powerful Magnets
- Easy to clean** - Easy access to Magnetic Rods ensures fast and easy cleaning of iron particles



Magna Roller Separator

- Self-Cleaning Magnetic Separator** Automatic Cleaning
- Continuous working** - 24/7 operation
- High Intensity and Gemini Rare Earth Powerful Magnets** - Greater level of iron separation
- Flexibility** – Customized size available as per the specific needs of the end user



Pipe Magnet

- Easy access** for cleaning and easy to inspect

Easy installation – in the existing pipeline with flange arrangement

High Intensity and Gemini Rare Earth Powerful Magnets

Greater level of iron separation

Flexibility – Customized size available as per the specific needs of the end user

Uniformity – Cone shaped design directs material around magnet cylinder for efficient iron separation



Rotary Grill

- Rotary Movement** - Ensures no bridging or choking of sticky/ semi dry material
- Easy Installation** - Flanged housing enables installation without additional setup
- Durability (Long usage)** - Gun metal bush, SS 304 structure for Rotary end plates & tubes
- Safety** - Lockable door ensures only authorized operator would unlock the rotary unit
- Magnetic Tubes** - Assembled in circular/cylindrical arrangement to capture sub-micron sized ferrous particles
- Gemini Rare Earth Powerful Magnets** - Ensuring optimum reach and holding strength.
- Easy Cleaning** – Flexible Rotary grate unit for easy removal & re arrangement with bearing/coupling and bush setup



Pulley Magnet

- Self-Cleaning Magnetic Separator** - Automatic Cleaning
- Continuous working** - 24/7 operation
- Easy installation** - No Additional Setup
- (Replace the existing MS pulley with PMT Magnet Pulley)**
- High Intensity and Gemini Rare Earth Powerful Magnets** - Greater level of iron separation
- Flexibility** – Customized size available as per the specific needs of the end user



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