



PMT
"PMT" the name in Iron Separation

Magnetic Separators

PLASTIC INDUSTRY

Prevent Machinery Damage
Safeguard product from contamination | Improves Quality of products

PMT offers complete line of Magnetic Separators for the Plastics Industry. **PMT** designs and manufactures variety of magnetic separators used throughout plastics industry at various positions in the plastic recycling and plastic processing lines to remove tramp iron from products and prevent damaging of processing machines & equipment.

In Plastic Industry, the plastic processing can be divided into two: the first is where raw materials used for processing is virgin plastics to produce high quality plastic goods for both household & industrial use. The second is where raw material used for processing is the recycled plastics. From last couple of years there is a rapid increase in the cost of virgin plastics, issues relating to environment and green practices which have led to a rise in use of recycled plastic. It is basically done at a specialist recycling plants or in-house at plastic processing units.

It is very important that the final product is of best quality and free from iron/ferrous particles. Unwanted Iron can be introduced 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. For instance, injection molding equipment's are pretty expensive and to frequently replace injection barrels or screws will not only hit the production cycle but also affect the profit and sales of the company.

With ever increasing use of recycled plastic to produce the plastic products, it is very important for the processor to have in place an effective and efficient iron separation process /system. Removing unwanted iron at early stage will help in producing best quality product and prevent damage to the processing machines/ equipment's at various stages of granulation and injection molding.

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/liquid/dry or slurry) and in any type of process including gravity or free-flowing, belt or conveyor fed, pneumatic conveyors or liquid lines.

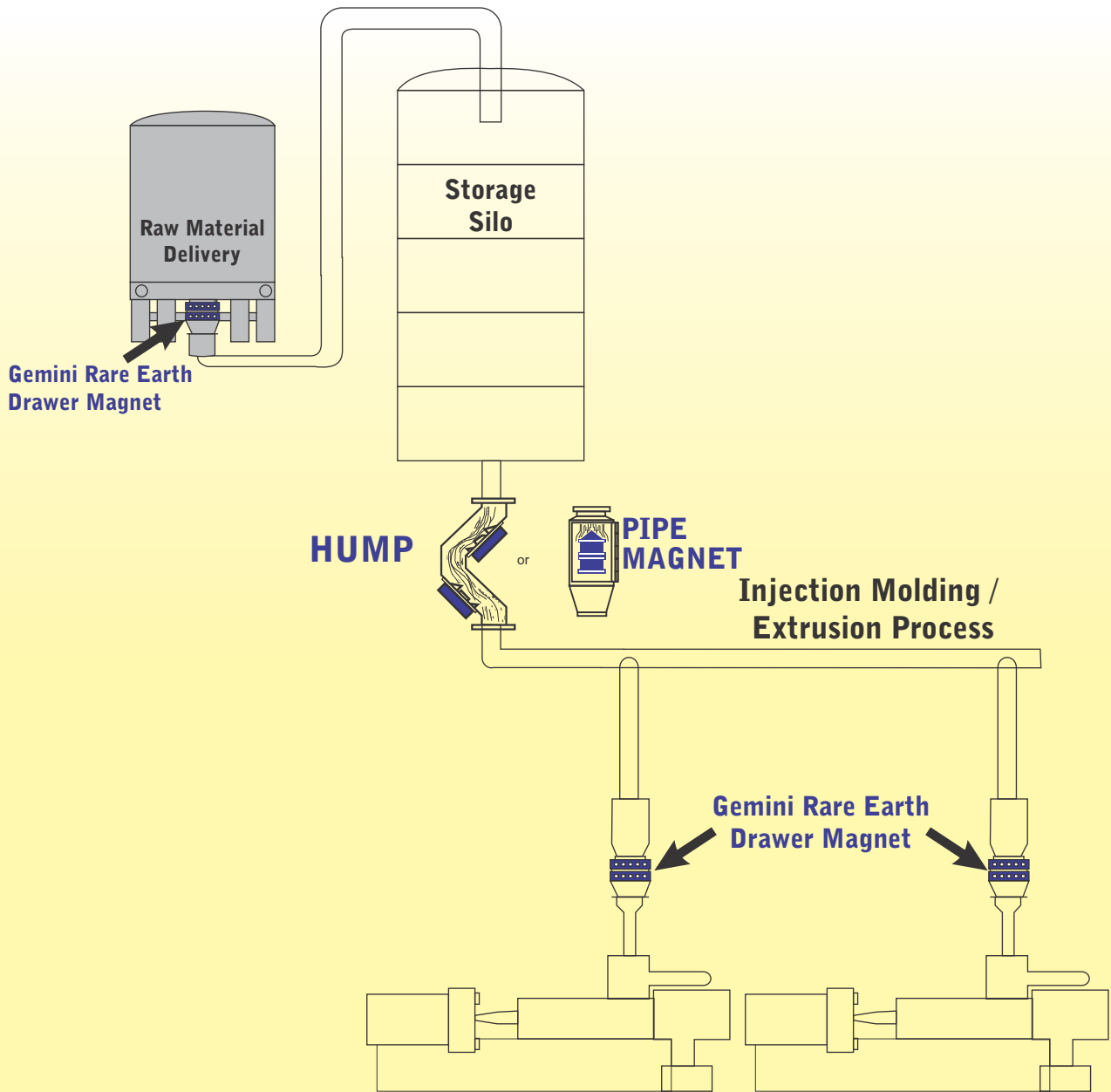
The damaging iron / unwanted iron problems can be solved using **PMT** Magnetic Separators. **PMT** have developed a range of Magnetic Separators for Plastic Industry: Plate Magnet, Grill Magnet, Rod Magnet, Hump Magnet, Drawer Magnet, Drum Magnet, Box Type Drum Magnet, Dual Door Magnet, Suspension Magnet, Pipe Magnet 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.

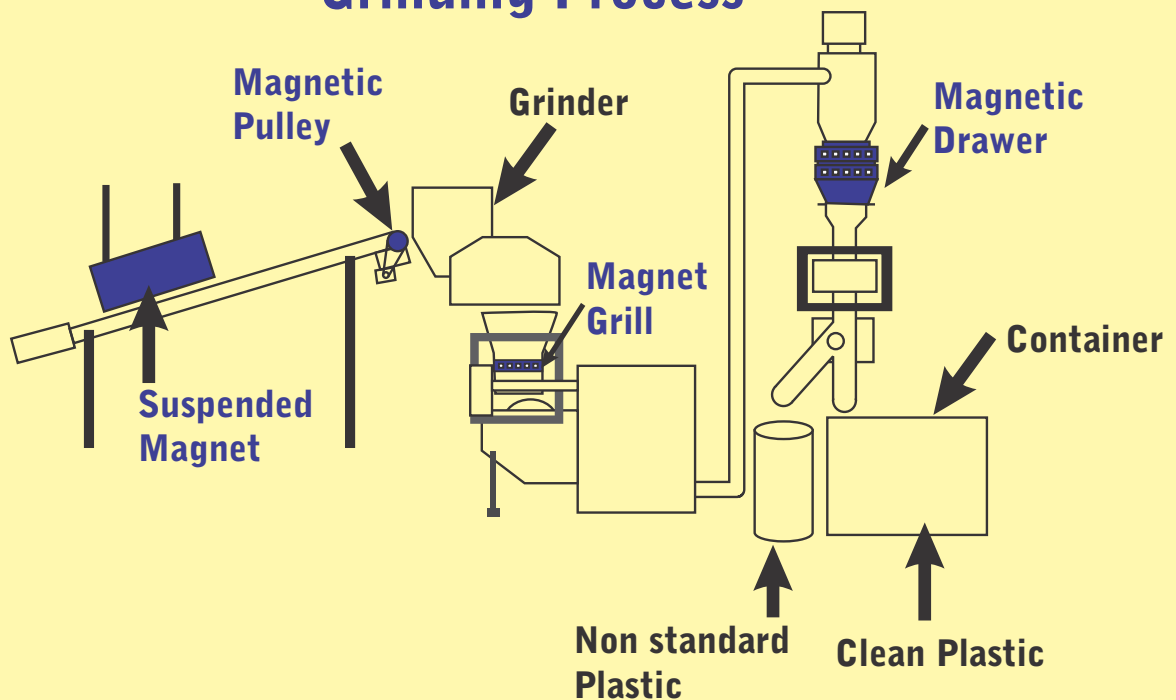
PMT ENGINEERS & CONTRACTORS

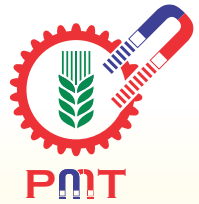
Manufacturers of Magnetic Separators & Equipments.

MAGNETIC SEPARATORS - PLASTIC PROCESSING



Grinding Process





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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



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



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



PMT ENGINEERS & CONTRACTORS

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