SUSMA
MAGNET

SUSMA UNITED ENTERPRISE

ELECTRO MAGNET CHUCK

Description:

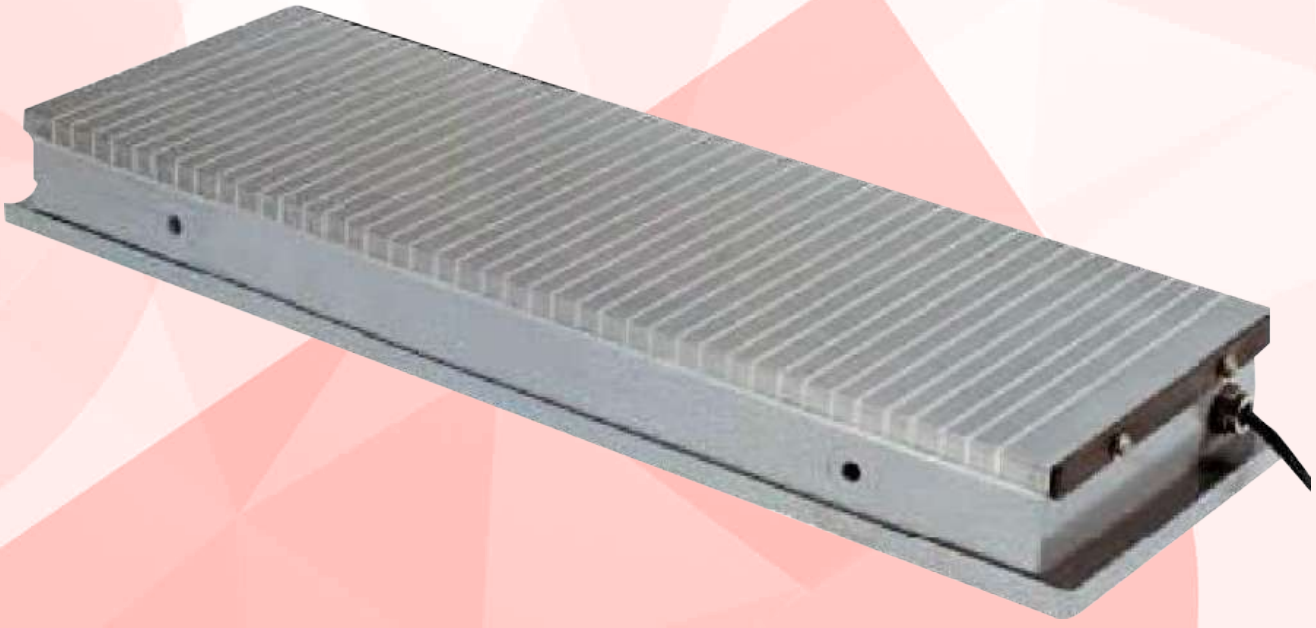
Electromagnet Chuck is a precision workholding device used primarily in machining and grinding operations. It uses an electrically generated magnetic field to securely hold ferromagnetic workpieces without mechanical clamps. When powered on, the chuck provides strong, uniform holding force; when switched off, the magnetic field disappears, allowing quick and easy removal of the workpiece. Electromagnet chucks improve accuracy, reduce setup time, and are ideal for flat, thin, or delicate components.

Key Features:

- Single solid piece body construction
- 100% leak proof construction.
- Lowest height electro magnetic chucks.
- Low power consumption with little temperature rise.
- Possibility of combining several chucks for a large uninterrupted work surface.
- Low profile enables more grinding wheel head clearance.

Applications:

- Ideal for standard components and for precision grinding.
- The low magnetic flux does not interfere with the grinding operation thereby giving higher accuracy.
- Designed to meet the demands of the latest grinding operations which require both heavy duty grinding and high precision.



MANUAL CLEANING PERMANENT MAGNETIC SUSPENDED SEPARATOR

Description:

Permanent Magnetic Suspended Separator is an industrial magnetic device installed above conveyor belts to automatically remove ferrous metal contaminants from bulk materials. Using powerful permanent magnets, it attracts and separates iron particles such as nails, bolts, and scrap without requiring electrical power. This helps protect downstream equipment, improve product purity, and reduce maintenance costs in industries like mining, recycling, cement, and material processing

Key Features

- Simple, cost-effective and low cost solution to impurity separation from conveyor belts
- Ideal for low intensity impurities that can be manually cleaned off with a glove or scraper
- Works continuously with low maintenance & reliable operation
- Constructed from high-power Ferrite magnet and comes with eye-bolts for suspending above conveyor or work area
- Suitable for Food & Recycling industries with low impurity content and intermittent duty cycle

PERMANENT MAGNETIC DRUM SEPARATOR

Description:
Drum Separators are industrial machines designed for the separation of magnetic and non-magnetic materials. These separators are highly effective in separating materials based on their magnetic properties, making them ideal for various mining, recycling, and manufacturing applications.

Key Features:
- High Efficiency: Separates fine and coarse materials.
- Robust Design: Built for heavy-duty applications.
- Magnetic Strength: Customizable magnetic power for different separation needs.
- Applications: Mining, Recycling, Manufacturing.

PERMANENT MAGNETIC OVERBAND SEPARATOR

Description:

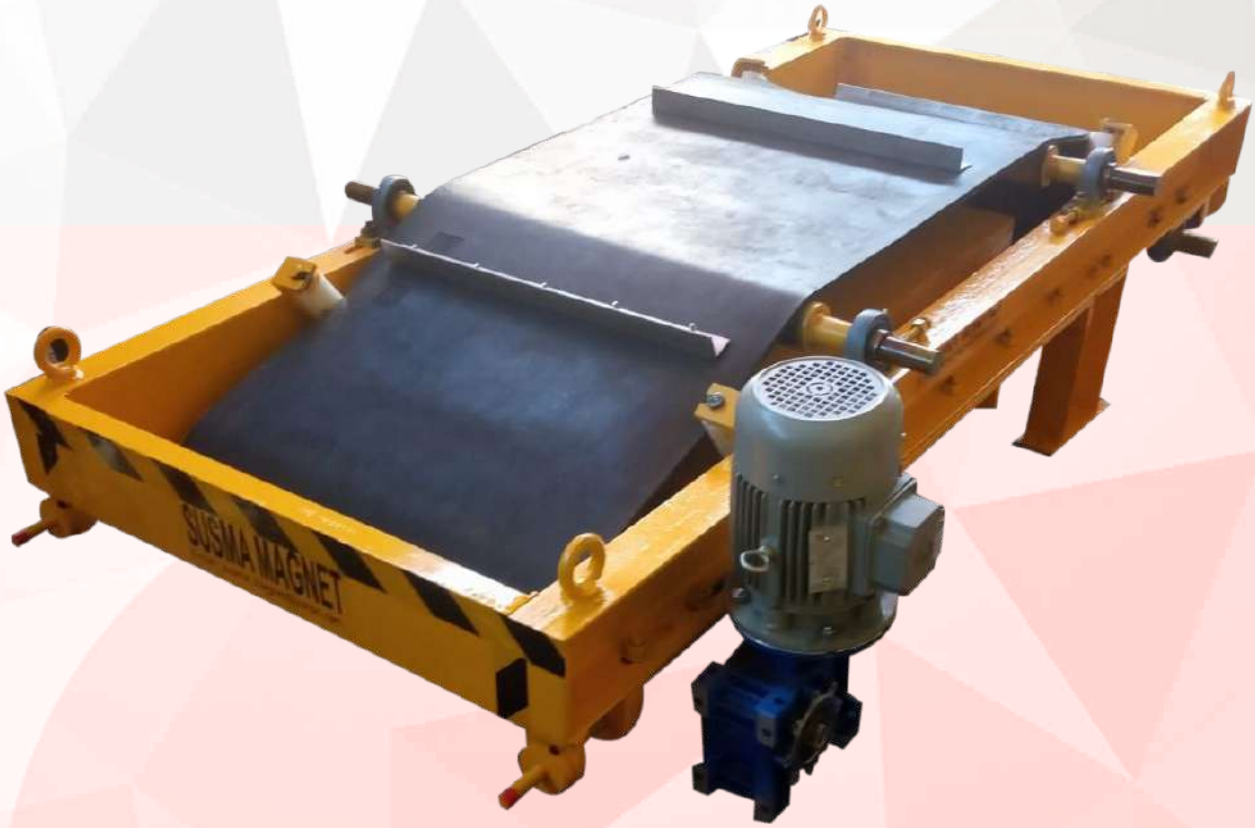
The Overband Permanent Magnet Separator is a high-performance device designed to remove ferrous metal contaminants from bulk materials. Installed over a conveyor belt, it efficiently attracts and removes iron-based particles, protecting downstream equipment and ensuring product purity.

Key Features

- Powerful Magnetic Field: Effectively separates ferrous metals from non-ferrous materials.
- Heavy-Duty Construction: Built with robust materials to endure tough industrial conditions.
- Easy Installation: Can be mounted over conveyor systems for seamless integration.
- Low Maintenance: Requires minimal upkeep, ensuring reliability and reducing downtime.
- Energy Efficient: Operates without external power sources, reducing energy consumption.
- Versatile Applications: Ideal for recycling, mining, and material processing industries.

Applications:

- Mining Industry
- Recycling Plants
- Material Handling and Processing
- Aggregate and Quarrying Operations



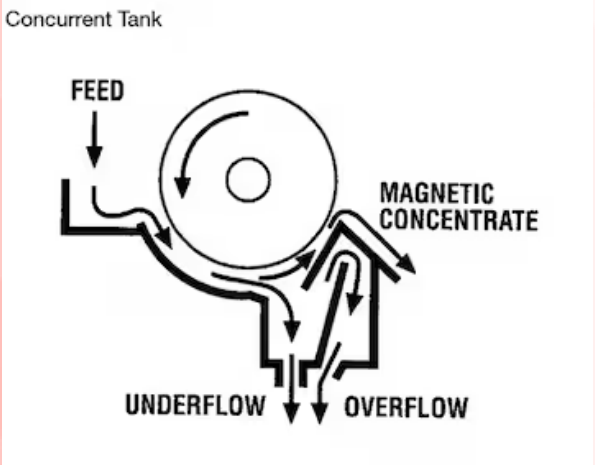
WET DRUM MAGNETIC SEPARATOR

Description:

Wet Drum Magnetic Separator is a magnetic separation machine used to remove ferrous impurities from liquids or slurry materials. It consists of a rotating drum with a stationary magnetic field that attracts and separates iron particles from the flow. Commonly used in mineral processing, recycling, and wastewater treatment, wet drum separators improve material purity and protect processing equipment.

Key Features:

- These Drum separators are used in mines and coal processing facilities to separate wet & fine magnetic particles
- There are 3 types of tanks : half-counter current, direct flow and counter current which are used depending on the granular dimensions
- Evenly distributed magnetic circuit, strong coercive force and high remanence permanent magnets which can work for long periods
- Suitable for harsh and high temperature environments and operates outdoors
- Suitable for intense applications with an continuous duty cycle
- Metal belt cladding available for sharp & jagged tramp particles



PERMANENT MAGNETIC ROLL SEPARATOR

Description:
The Permanent Magnetic Roll Separator is an efficient and cost-effective solution for separating weakly magnetic materials from non-magnetic ones. It uses high-intensity magnetic fields to separate ferrous particles from granular or powdery substances, ideal for industries requiring high purity.

Key Features:
- High-Intensity Magnetic Field: Ensures efficient separation of weakly magnetic materials.
- Durable and Robust Construction: Built to withstand harsh industrial environments for long-term use.
- Compact Design: Space-saving and easily integrated into existing processing lines.
- Low Maintenance: Requires minimal upkeep, reducing operational costs.
- Versatile Applications: Ideal for mineral processing, recycling, food processing, and other industries.

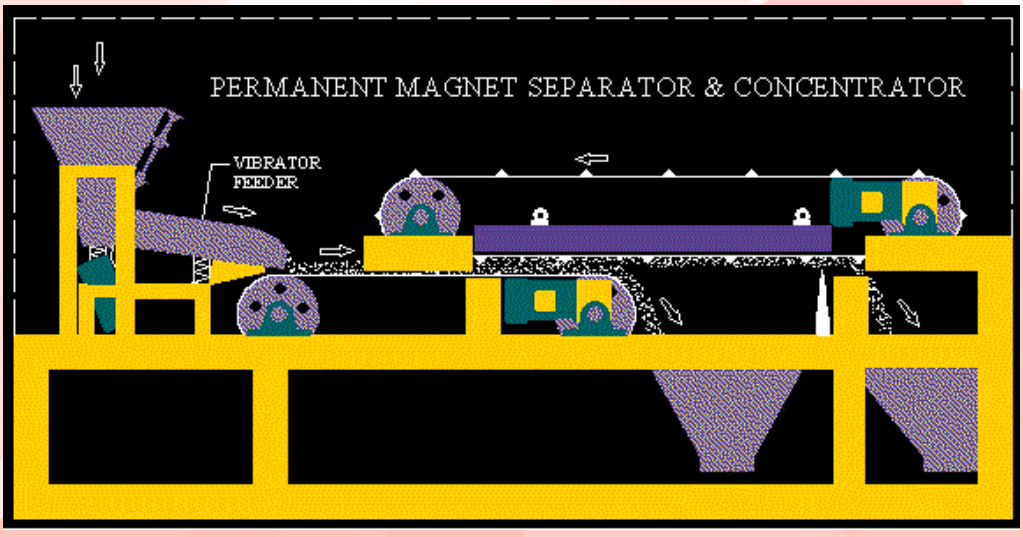
Applications:
- Mineral Processing
- Food Industry
- Recycling Plants
- Chemical and Pharmaceutical Processing

MAGNETIC CONCENTRATOR

Description:
A magnetic Concentrator (MC) is a device that uses a magnetic field to separate materials based on their magnetic properties. It typically consists of a magnetic field generator, often an magnet, and a system for introducing and separating materials. MCs are used in various industries for mineral beneficiation, purification, and upgrading of materials like iron, steel, and other magnetic materials.

Key Features:
- Magnetic Concentrator use permanent magnets to create a strong, localized magnetic field.
- Materials with magnetic properties are attracted to the magnetic field, while non-magnetic materials are not affected.
- Magnetic Concentrator are used in various applications, including mineral processing, waste management.
- Magnetic Concentrator can be used with different materials and separation needs.

Applications:
- Concentrating materials
- Purifying materials
- Separating ferrous impurities
- Removing iron contamination



MAGNETIC CONCENTRATOR BED

Description:

A magnetic Concentrator (MC) is a device that uses a magnetic field to separate materials based on their magnetic properties. It typically consists of a magnetic field generator, often an magnet, and a system for introducing and separating materials. MCs are used in various industries for mineral beneficiation, purification, and upgrading of materials like iron, steel, and other magnetic materials.

Key Features:

- Magnetic Concentrator use permanent magnets to create a strong, localized magnetic field.
- Materials with magnetic properties are attracted to the magnetic field, while non-magnetic materials are not affected.
- Magnetic Concentrator are used in various applications, including mineral processing, waste management.
- Magnetic Concentrator can be used with different materials and separation needs.

Applications:

- Concentrating materials
- Purifying materials
- Separating ferrous impurities
- Removing iron contamination

PERMANENT MAGNETIC PULLEY

Description:
A Permanent Magnetic Pulley is a magnetic separation device designed to remove ferrous metals from non-ferrous materials. Installed at the end of a conveyor belt, it automatically attracts and removes metal particles, enhancing product quality and protecting equipment.

Key Features:
- Strong Magnetic Field: Efficiently separates ferrous metals from non-ferrous materials.
- Durable Design: Built with high-quality materials for long-lasting performance in industrial environments.
- Easy Installation: Can be integrated into existing conveyor systems with minimal effort.
- Low Maintenance: Requires little maintenance, reducing downtime and operating costs.
- Energy Efficient: Operates without external power sources.
- Compact Design: Space-saving design for easy installation in tight spaces.

Applications:
- Recycling Facilities
- Mining and Quarrying
- Aggregate Processing
- Material Handling

PERMANENT MAGNETIC LIFTER

Description:
The Permanent Magnetic Lifter is a durable and efficient lifting device designed to safely handle and lift heavy metal objects. With its strong magnetic field, it provides secure and reliable lifting without the need for electrical power.

Key Features

- Powerful Magnetic Force: Provides strong, secure lifting of ferrous metals.
- Safe and Reliable: Non-electrical design eliminates the need for power sources, ensuring continuous operation.
- Compact and Lightweight: Easy to handle and store, ideal for small to medium lifting tasks.
- Durable Construction: Made with high-quality materials for longevity and reliability in harsh environments.
- Low Maintenance: Requires little maintenance, reducing downtime and operational costs.
- Versatile Applications: Suitable for lifting steel plates, billets, and other ferrous metal objects.

Applications:

- Metal Handling / loading and unloading
- Steel Mills and Foundries
- Warehousing and Storage
- Assembly and Manufacturing

CIRCULAR ELECTRO-MAGNETIC LIFTER

Description:
The Circular Electro-Magnetic Lifter is a powerful lifting device designed for handling heavy metal objects. It utilizes strong electromagnetic fields to securely lift and transport steel plates, billets, and scrap metal in industrial environments with ease and safety.

Key Features:
- High Magnetic Strength: Capable of lifting heavy steel and metal materials.
- Circular Design: Ensures balanced lifting and smooth operation.
- Energy Efficient: Low power consumption, high performance.
- Durable Construction: Built to withstand tough industrial environments.
- Safety Features: Equipped with safety mechanisms to prevent accidents.

ELECTRICAL PANEL BOX

Description:

An Electrical Panel Box is a crucial component in electrical distribution systems to Electro Magnetic Devices protect electrical circuits and control equipment. It ensures safe and organized power distribution in various electro magnets and separators.

Key Features

- Durable Construction: Made from high-quality materials to ensure long-lasting performance.
- Safety Compliance: Designed to meet industry safety standards and regulations.
- Customizable: Available in different sizes and configurations to suit various applications.
- Easy Installation: Simple to mount and wire for quick installation.
- Versatile Applications: ideal for electro magnets and separators.

Applications:

- Electro magnets
- Separators

ELECTRO-MAGNETIC HOT LIFTER

Description:
The Electro-Magnetic Hot Lifter is designed for lifting and handling hot metal components. Utilizing a high-strength electromagnetic field, it provides safe and efficient lifting for industries such as steel, foundry, and metallurgy while ensuring operator safety and minimal maintenance.

Key Features
- High Magnetic Strength: Designed for lifting hot metal objects safely and efficiently.
- Temperature Resistance: Capable of lifting materials at high temperatures.
- Heavy-Duty Design: Built for harsh industrial environments with robust construction.
- Safe Operation: Provides secure handling to prevent accidents and injuries.
- Low Maintenance: Simple design for reduced downtime and easy maintenance.
- Energy Efficient: Optimized for low power consumption.

Applications:
- Steel Industry (For Billet Handling)
- Foundries
- Metalworking and Fabrication
- Hot Metal Handling

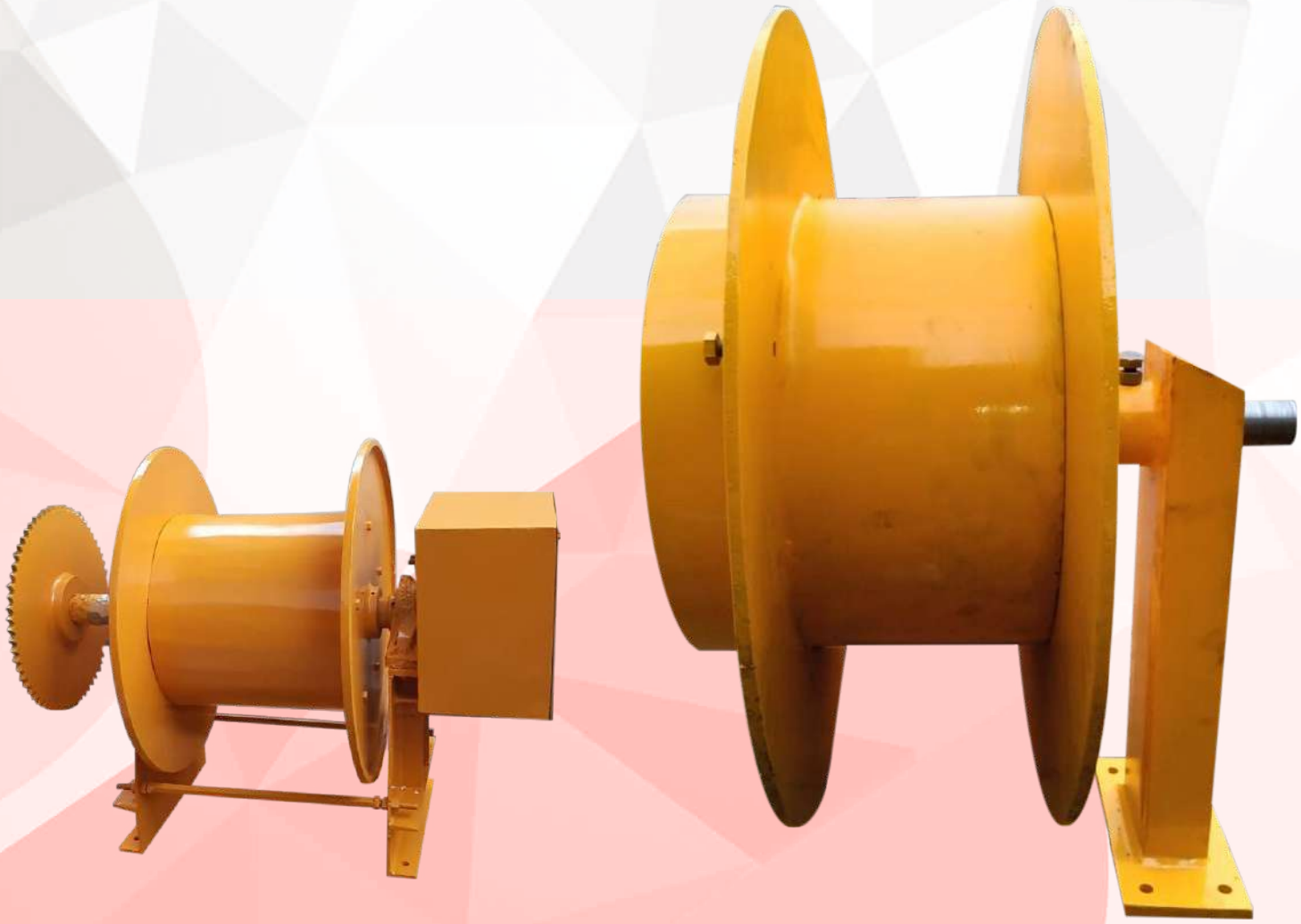
CABLE REEFING DRUM: ELECTRO MAGNETS

Description:
A cable reel is a round, drum-shaped object such as a spool used to carry various types of electrical wires. Cable reels, which can also be termed as drums, have been used for many years to transport electric cables, fibre optic cables and wire products.

Key Features
- Carry the heavy and bulky coils for cables
- Optimising maintenance procedures

Applications:
- Used on a range of moving machinery to automatically reel cables

.



AIR-COOLED ELECTRO-MAGNETIC SUSPENDED SEPARATOR

Description:
The Air-Cooled Electro-Magnetic Suspended Separator is an industrial device designed to remove ferrous contaminants from bulk materials. It uses an air-cooled electromagnetic field to provide efficient and continuous performance with minimal maintenance in tough environments.

Key Features:
- **Air-Cooled Design:** Efficient cooling system.
- **High Magnetic Strength:** Effectively separates ferrous materials from non-ferrous materials.
- **Durable Construction:** Built to withstand harsh industrial conditions.
- **Low Maintenance:** Reduced maintenance due to air cooling and robust design.
- **Energy Efficient:** Consumes less power while maintaining high performance.
- **Wide Applications:** Perfect for recycling, mining, and aggregate industries.

Applications:
- Mining Industry
- Recycling Plants
- Aggregate Processing
- Cement and Steel Industries

ELECTRO-MAGNETIC OVERBAND SEPARATOR

Description:
An Electro-Magnetic Overband Separator is an industrial magnetic separator used to remove ferrous materials from a range of materials. It is highly effective in mining, recycling, and manufacturing industries for improving material purity and safeguarding machinery.

Key Features

- Powerful Magnetism: Effectively separates ferrous materials from non-ferrous.
- Heavy-Duty Construction: Built for continuous, high-performance operations.
- Wide Applications: Ideal for mining, recycling, and aggregate industries.
- Easy Maintenance: Low maintenance design for ease of use and longevity

Applications:

- Mining
- Recycling Plants
- Material Handling
- Aggregate Processing

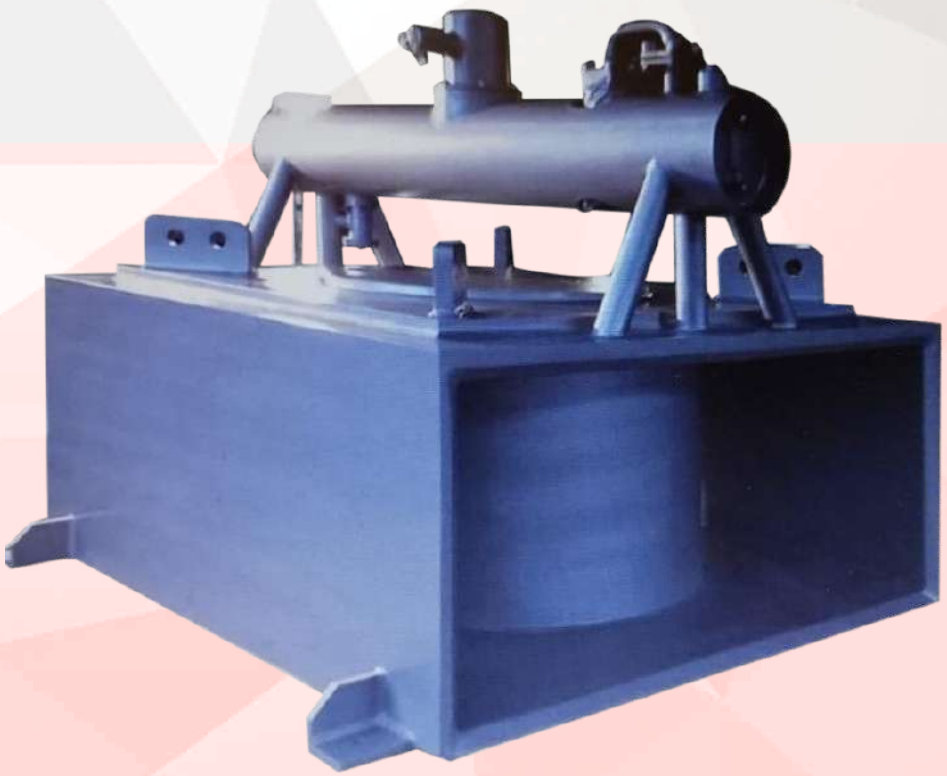
OIL-COOLED ELECTRO-MAGNETIC SUSPENDED SEPARATOR

Description:
The Oil-Cooled Electro-Magnetic Suspended Separator is designed to remove ferrous materials from non-ferrous materials in various industries. It uses an oil-cooled electromagnetic field for high-efficiency performance, ensuring minimal maintenance and long-lasting operation in tough environments.

Key Features
- Oil-Cooled Technology: Ensures efficient cooling and continuous operation.
- High Magnetic Strength: Strong magnetic field for effective separation of ferrous materials.
- Durable Construction: Built with heavy-duty materials for tough industrial environments.
- Low Maintenance: Minimal maintenance required due to efficient cooling system.
- ·Wide Applications: Ideal for mining, recycling, and heavy-duty industries.

Applications:
- Mining and Quarrying
- Recycling Plants
- Steel and Metal Industry
- Aggregate Processing

  Cool Processing



ELECTRO MAGNETIC FERRO FILTER

Description:
The Electro-Magnetic Ferro Filter is designed to remove ferrous contaminants from liquids, slurry and powders. It utilizes a powerful electromagnetic field to capture iron particles, ensuring upgrading/purity of raw materials , cleaner materials and protecting machinery in industrial applications.

Key Features:
- High Efficiency: Effectively removes ferrous particles from liquids and powders.
- Magnetic Strength: Uses a powerful electromagnetic field for optimal filtration.
- Durable Design: Made from high-quality materials for long-term reliability.
- Easy Maintenance: Simple to clean and maintain for continuous operation.
- Wide Application: Ideal for food processing, chemical industries, and pharmaceuticals.

Applications:
- Food Processing
- Pharmaceutical Industry
- Chemical Processing
- Mineral Processing

PERMANENT MAGNETIC SWEEPER

Description:
The Permanent Magnetic Sweeper is designed for efficient cleaning of roads and industrial areas by collecting ferrous metal debris. It uses a powerful permanent magnet to attract and remove metal objects, enhancing safety and cleanliness in urban and industrial environments.

Key Features

- Powerful Permanent Magnet: Attracts and collects ferrous debris from roads and industrial areas.
- Durable Construction: Built to withstand tough outdoor conditions and heavy-duty use.
- Easy Operation: Simple to use with minimal maintenance required.
- Versatile: Suitable for a variety of surfaces, including roads, warehouses, and manufacturing plants.
- Safety: Helps to prevent accidents by removing hazardous metal debris from public roads and industrial settings, airport runways, container terminal etc.
- Environmentally Friendly: Reduces the risk of pollution and contamination by effectively collecting metal waste.

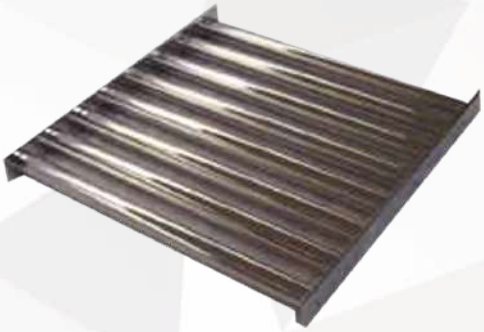
Applications:

- Road Cleaning
- Industrial Site Maintenance
- Warehouse and Manufacturing Facilities

GRILL MAGNETS

Description:
Magnetic Grills are used in bins, chutes, drawers and hoppers. They are designed to remove ferrous metal and tramp iron from free-flowing materials such as plastics, foods, cosmetics, grains and minerals. Standard magnetic grates feature 25mm (1 inch) diameter round bars filled with either high grade Ceramic or Rare Earth Magnets, arrayed on 50mm centers and welded into grid configurations. Both round and square shapes of single or double layers are available with or without angular or rod baffles to direct product flow.

Round Grill



Square Grill

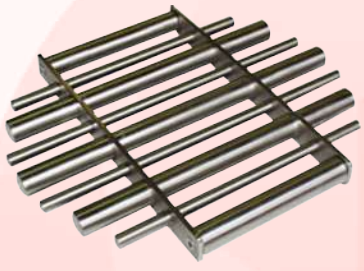
Special design round grill for funnel shape

Variation of round grill

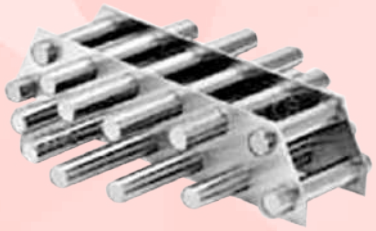
Another variation round grill for funnel shape

Single layered round grill

Double layered round grill



Easy cleaning type grill



Double layered round grill

TRANFORMER: ELECTRO-MAGNETS

Description:
Transformers for magnets are designed to provide stable and controlled electrical power to electromagnetic systems. They ensure optimal magnet performance, protect equipment, and enable precise control in industrial lifting, separation, and automation applications.

Key Features

- Reliable voltage regulation for magnet operations
- Robust construction for industrial environments
- Available in various power ratings and configurations
- High efficiency and low heat generation
- Compatible with electromagnets, lifting magnets, and separators

Applications:

- Electromagnetic Lifting Systems
- Magnetic Separation Equipment

THANK YOU FOR EXPLORING OUR CATALOGUE

We appreciate your time and interest in our products. At SUSMA UNITED ENTERPRISE, we are committed to providing high-quality, innovative solutions tailored to your needs. Whether you're seeking performance, style, functionality, or all of the above — we're here to help you find exactly what you're looking for.

SUSMA
MAGNET

LET'S CONNECT

SUSMA UNITED ENTERPRISE

Have questions? Need a custom solution? Ready to place an order?

M + 91 98302 96645 | +91 62945 82232

E susma_magnet@yahoo.com

W www.susmamagnet.com

Address: Near AIIMS, P.O.: Ghoragacha, Basantapur, Kalyani, West Bengal 741235

PARTNER WITH US

Join hundreds of satisfied customers and partners who trust SUSMA UNITED ENTERPRISE for quality, reliability, and service. We look forward to growing with you.