MAGNETIC ROLL SEPARATOR

Introduction

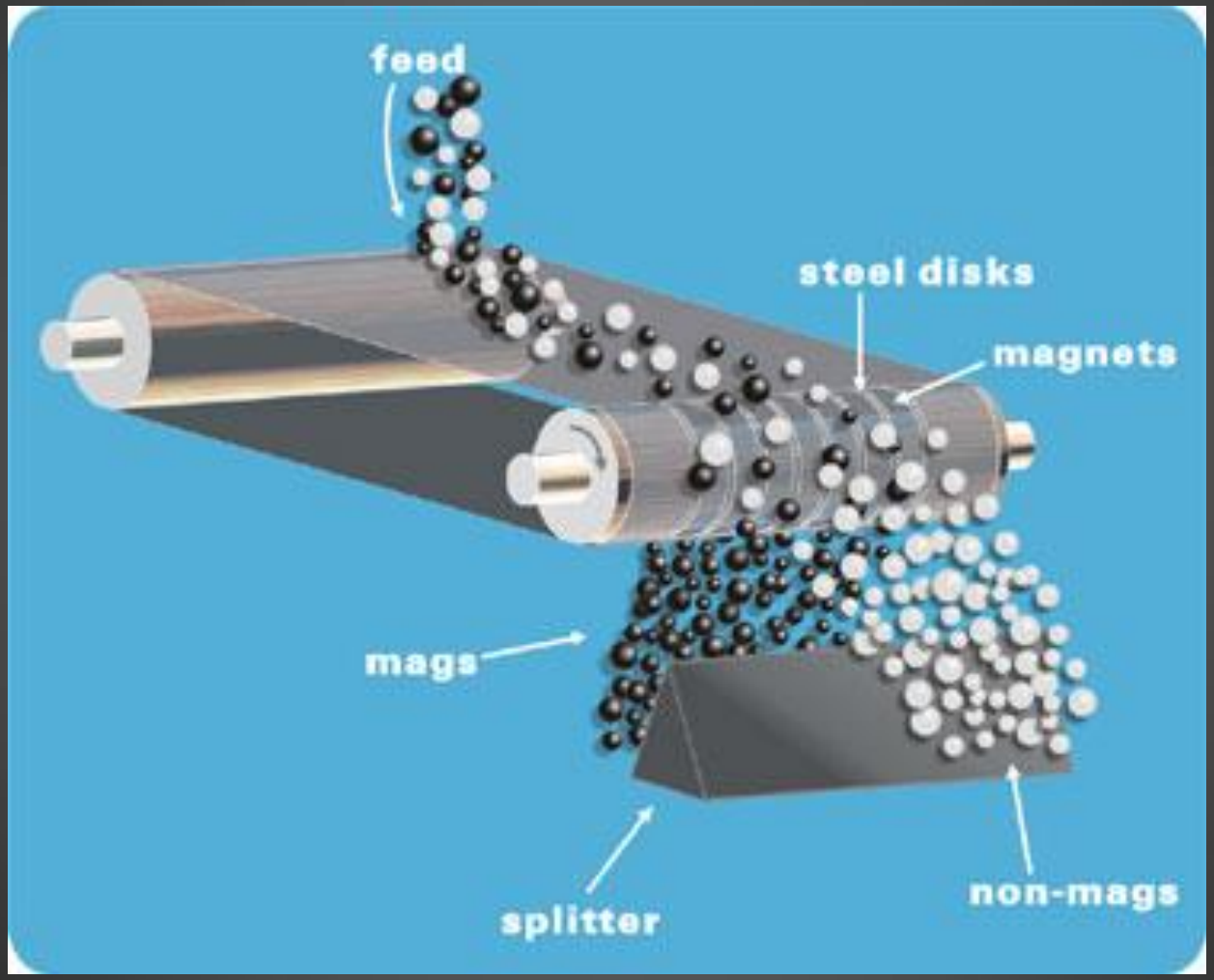
Magnetic Roll Separator consist of Hopper, Electro magnetic Feeder with Dimmer control, Roll Construction, Drive Motor, Adjustable Splitter Plates, Control Panel.

Rare earth roll separator has a powerful rare earth magnetic roll, which also functions as a head pulley. As the product on the belt passes over the rare-earth magnetic roll, Ferrous particles stick to the belt while the non-ferrous particles fall freely off the belt into the non-magnetic chute due to centrifugal force.

Working

- Magnetic Roll Separators comprise of two moves, one of which is magnetics.
- There is a belt between them to convey the mineral into the magnetic field.
- The development of the belt is controlled by an engine altered to one of the magnetic rollers.
- The rotational rate of magnetic rollers can be balanced by magnetic material properties and sort.

- The material to be prepared is passed on to the belt by magnetic vibrating feeder at a required rate.
- Adjusting so as to encourage rate can be controlled the vibration on feeder.
- An Magnetic Roller separators cutting edge has been set with a specific end goal to have the capacity to gather isolated magnetic items in better places and to alter the item properties in a craved way.


feed
steel disks
magnets
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splitter
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Industrial Uses

- **Magnetic Roll Separators** are primarily used for separating or concentrating minerals or materials of low magnetic susceptibility.
- Uses include extraction of iron or chromium bearing minerals from silica sand, the concentration minerals such as wolframite, the removal of paramagnetic minerals such as Iron Titanium Oxide (Limonite, $FeTiO3$), Iron Carbonate (siderite, $FeCO3$), etc., from valuable non-magnetic minerals, and purification of dry granular chemical compounds and abrasives.

- These self-cleaning **magnetic roll separators** selectively removes magnetic components out of a conveyed material and discharges them as distinct and clean material.
- Field intensity is adjustable for selective recovery.
- Very high gauss of 20,000 is achieved by the **magnetic roll separator**.

Magnetic Roll Separator

Applications

- Abrasive and refractory
- Raw materials cleaning
- Magnetite beneficiation
- Copper-nickel ore Pre- Concentration
- Manganese and glass send beneficiation
- Andalusite and pyrophyllite beneficiation
- Diatomaceous earth cleaning and kainite cleaning
- Iron ore beneficiation
- Diamond beneficiation

- Bauxite cleaning
- Feldspar cleaning
- Bauxite Upgrading
- Recovery of Metals from Slag.
- Ceramic raw materials cleaning
- Metal value recovery from waste
- Ultra High Purity Quartz Cleaning.
- Flint clay and Graphite beneficiation
- Removal of Ferro silicates from limestone Magnetite etc.
- Selective separation of garnet/ilmenite/rutile/zircon recovery

Advantages

- Lower installation costs
- Lower maintenance costs
- Lower capital costs and operating costs per tones of product
- Easy access to dust generation points
- Ready observation of the operation and ease of process control
- Reduced periodic cleaning and downtime
- The latest emf- MagROLL models incorporate special new design of development and operational experience

Contact

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