

# MAGNETIC ROLL SEPARATOR



**SAIDEEP**

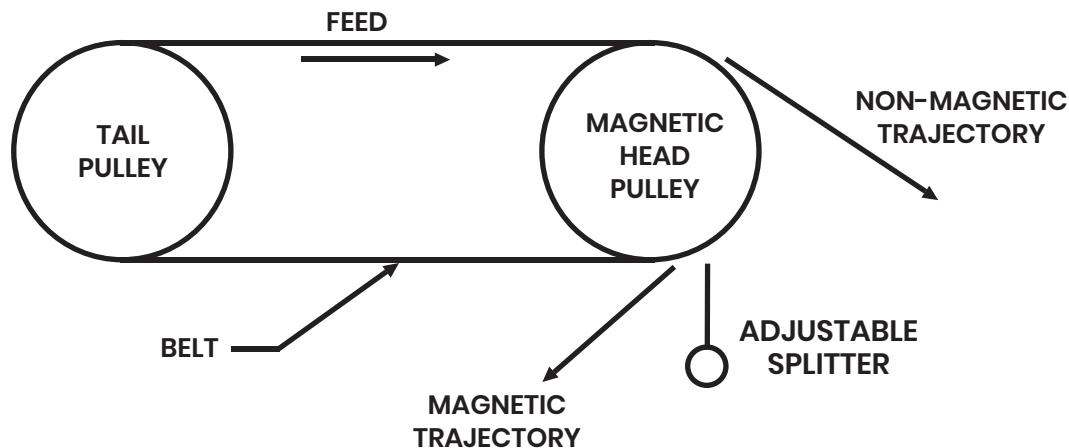
*Technology That Lays The Foundation Of Your Dreams...*



# MAGNETIC ROLL SEPARATORS

## Introduction:

**Magna Roll Separators** are roll type dry magnetic separators with fixed magnet having high field intensity and gradient. The magnets used in the **Roller Magnetic Separators** and made of alloys of rare earth elements are more powerful as compared to other magnets. They generate high attraction forces on the **magnetic roller** due to their properties and special magnetic series. The obtained high magnetic attraction forces have low magnetic sensitivity and therefore they make it possible to separate very fine low magnetic minerals with a high recovery.



**Magna Roll Separators** are highly effective for separating paramagnetic particles and weakly paramagnetic particles separately. These Rare Earth Magnetic Separators are made up of very high power specially developed Nickel, Iron Boron (Nd-Fe-B) with highest magnetic power available in the series to enable us to achieve very high Gauss value compared to other similar products.



## Application:

Our Magna Rolls have a wide range of applications:

- Food & Milling (eg: Grains, Rice, Pulses, Semolina, Spices etc.)
- Minerals (eg: Silica Sand, Quartzite, Feldspar, Nepheline Syenite, Ilmenite, Ceramic etc.)
- Abrasives & Refractories (eg: Alumina, Garnet, Chromite, Corundum, Zircon etc.)
- Rubber Reclaim Industry
- Chemicals
- Pharmaceuticals
- Recycling

## Features:

- Rolls are made of **High Power Neodymium-Boron-Iron** permanent magnets.
- **Gauss Power:** 14000 + Gauss Power on the magnetic roll surface.
- Magnetic Rolls are available in **100 mm & 150 mm Diameters**.
- **Capacity Range** (per hour): 50 Kgs – 15,000 Kgs (Upto 15 Tons).
- **Multiple Stage Separation** available on one separator. Up to four stage separation can be provided in series.
- **Multiple Belt Options:** Kevlar Belt, PU Belt, Teflon Belt, Graphite Belt.
- **Vibratory Feeder** for feeding of materials (Optional: Electromagnetic OR Motorized).
- **Feed Hopper** with Slide Gate arrangement.
- Geared Motors of Bonfiglioli for lifelong & maintenance free service.
- MOC: Stainless Steel (SS 304 OR SS 316L) OR Mild Steel.
- **Dust Proof** housing to avoid dusting.
- **Easy Belt Changing Mechanism**.
- **Variable Speed Drive** can be provided to control roll speed using a variable frequency controller.(optional)
- **Automatic Belt Cleaning Mechanism** (optional).



## Size & Capacity Chart:

### MAGNETIC ROLL SEPARATOR STANDARD SIZE & CAPACITY CHART

Roll Diameter MM	Roll Width MM	Light Materials (Kgs/Hr) Eg: Grains, Pulses, Spices	Heavy Materials (Kgs/Hr) Eg: Silica Sand, Iron Ore
100	300	250-600	800-1500
100	500	600-1000	1500-2500
100	750	1000-1500	2500-4000
100	1000	1500-2000	4000-5000
100	1250	2000-3000	5000-6000
100	1500	3000-5000	6000-7000
150	1000	3000-5000	7000-8000
150	1250	5000-8000	9000-12000
150	1500	8000-12000	12000-15000

**PS NOTE:** The above capacities are an average & may change based on the product & its conditions.

### Saideep Trail Facility:

At Saideep we strongly believe that our customers should be a 100% satisfied & sure about the product they are willing to buy & to help achieve that we provide a FREE TRAIL / LIVE DEMO of our machine with their product for them to know the level purity & performance that can be achieved.





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