

# SREMAG

## SRIRAM ENGINEERS

### PRODUCT AT A GLANCE

VIBRATING EQUIPMENTS	MAGNETIC EQUIPMENTS
Gyratory Screen	Circular Lifting Magnet
Horizontal Screen	Rectangular Electro Lifting Magnet & Permanent Lifting Magnet
Electro Magnetic Feeder	Over Band Magnetic Separator (Permanent & Electro Magnet)
Mechanical Vibro Feeder	Suspension Magnet (Permanent & Electro Magnet)
Bin Vibrator	Magnetic Pulley
Vibrating Table	Magnetic Drum Separator
Vibrating Motor	Magnetic Roll Separator
JCB Magnet	Magnetic Grill & Drawer in housing
	Oil Cool Magnet

### SRI RAM ENGINEERS

**ISO : 9001 - 2015**

Office / Factory : No.148-B, 8th Street, Mahatma Gandhi Road,  
Tass Industrial Estate, Ambattur, Chennai - 98.

Branch : No.1504, Ramakrishnapuram, Sathy Road, Ganapathy, Coimbatore-06.

PhNo : 044 - 60508008 | Fax : 044 - 60508008

Email : mail.sremag@gmail.com, sremag@rediffmail.com

website : www.sremaggroup.com

Cell : 7299979703, 04,

9994235492, 8610535346

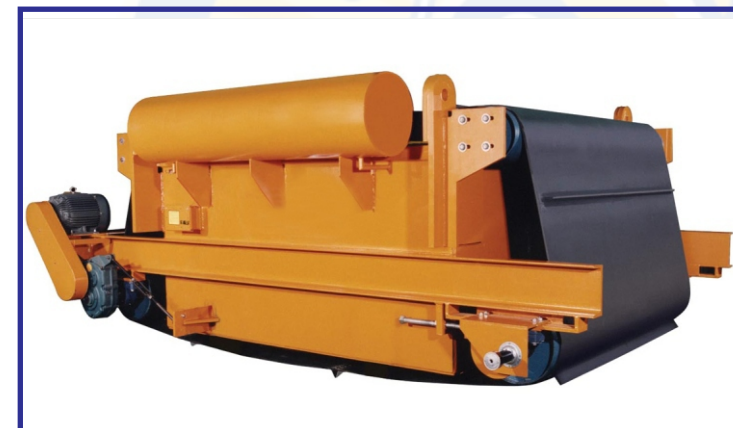
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# SREMAG

## SRIRAM ENGINEERS

**MFRS: LIFTING ELECTRO MAGNET & VIBRATOR, EXCAVATOR MAGNET**



**PRODUCT CATALOGUE**



[www.sremag.com](http://www.sremag.com)





## ELECTRO LIFTING MAGNET

MAGNET MODEL NO	SIZE OF MAGNET DIA	KW	APPROXIM WEIGHT OF MAGNET (IN TONES)	LIFTING CAPACITY (IN KGS)			
				SINGLE SOLID	STEEL TURNING	PIG IRON	MELTING SCRAP
SRE CM 10	600	2.5	0.6 TON	2500	75	90	150
SRE CM 20	1000	6	1.2 TON	8000	210	620	500
SRE CM 30	1250	8	1.7 TON	12000	300	900	720
SRE CM 40	1350	12	2.5 TON	15000	400	1200	1000
SRE CM 50	1550	15	3.5 TON	18000	500	1600	1400
SRE CM 60	1800	18	5.0 TON	22000	800	2300	1800
SRE CM 70	2000	21	5.5 TON	23000	1000	2500	2000

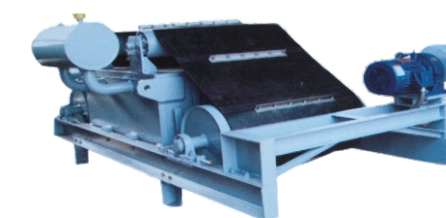
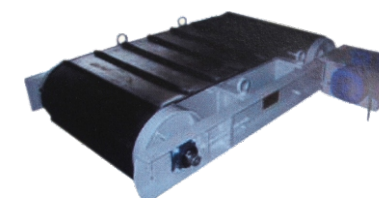
**SRE MAG** Scrap Lifting Magnet can handle tones of scrap continuously throughout the day. It is used in metalworking plants to hoist and transport steel parts, forgings, casting, plates, booms, channels, angles, rods and bars. They save time and effort because they can lift steel more quickly and conveniently than any other mechanical device.

### Applications :

Applied to lifting and transporting magnet-conductive materials such as steels and irons in metallurgy industry, mine industry, machinery industry, communication and transportation industry and etc.

### Features :

- Construction with good moisture proofing.
- Reasonable structure, lightweight, powerful magnetic force and low energy consumption.
- High temperature type electromagnet adopt unique method of heat protection.
- Simple and convenient installation, operation and maintenance to provide you with the ultimate in lifting capacity.



## OVER BAND MEGNETIC SEPERATOR (OBMS)

**SRE MAG** Self-Cleaning separators are designed for installation over conveyor where tramp iron contamination exists and needs to be removed for protection of subsequent processing machinery or providing cleaner product. The self-cleaning type uses a two-pulley design. Parallel self-cleaning magnets are mounted in line with the material flow, while transverse self-cleaning magnets remove the ferrous material over the side of the conveyor.

**SRE MAG** Self-Cleaning Magnet is available in permanent Magnet and Electro Magnet.

The **Electromagnetic Over Band Magnetic Separator** consist of a stationary tripolar design magnet unit, with coils wound in aluminum wire or foil (copper available as an option) dependent on size, and insulated to Class 'H' (or above) temperature specification to receive DC power supply. Magnets can be air or oil cooled, whichever is more suitable for the application. Oil cooled magnets are fitted with expansion tanks to ensure the coil is always immersed in oil.

Self-Cleaning units, can be fitted across the conveyor, attracting the tramp iron and discharging to one side on the conveyor or in-line over the head pulley, discharging extracted iron forward of the normal trajectory. In certain applications, when site conditions dictate, an over band can be fitted in a diagonal position using the better features of both applications.

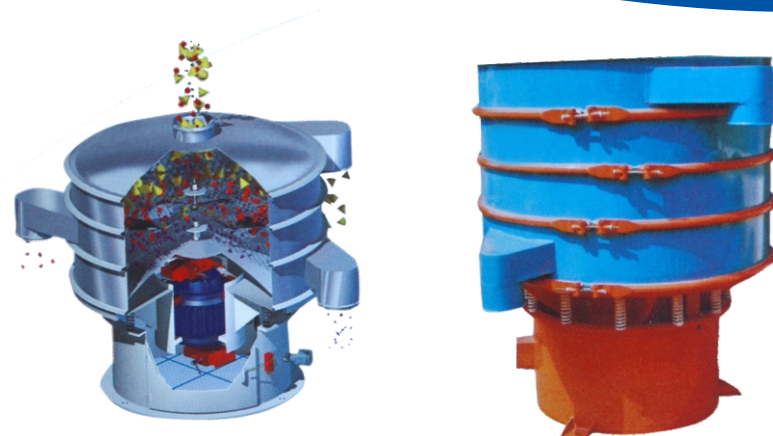
## SUSPENSION MAGNET

**SRE MAG** Suspension Magnet are designed for installation over conveyor where tramp iron contamination exists and needs to be removed for protection of subsequent processing machinery or providing cleaner product. Just suspend it over the conveyor or over the head pulley. When the magnet surface starts to fill up, swing the magnet away from the conveyor and cut the power (electromagnet) or use the convenient wiper arm (permanent magnet) to release the attracted metal. Suspension heights up to 10th to 12th are available. Manually cleaned magnets can be supplied with a stripper mechanism. No power consumption, virtually maintenance free.

Suspension Magnet available is the permanent Magnet and Electro Magnet.

Electro Suspension Magnet consisting of aluminum or copper wound coils immersed in a transformer oil (for prevention of overheating or shorting) or air cooled for extreme or dusty environments.





## GYRATORY SCREEN

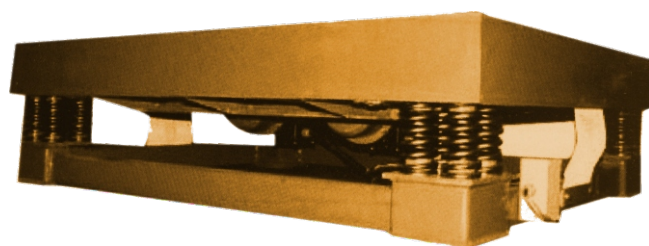
**SRE MAG** Gyratory screen motion is the most effective method for screening. The heart of the Vibration screen is its specially designed heavy-duty Energy efficiency Motor, having an unbalanced weight at top & bottom end of the shaft. Rotation of an unbalanced top weight causes vibration in Horizontal plane whereas the rotation of lower weight causes tilt & vibrations in vertical plane. By changing their lead angle, various spiral-screening patterns are obtained to suit different applications.

### Advantages :

- Low power consumption
- Varied range of application
- High processing rate per unit area of screen
- Accurate separation
- Minimum screen building

### Applications :

Food Industry  
Chemical industry  
Pharmaceuticals  
Ceramics, Plastics  
Abrasives



## VIBRATING TABLE

The table mounted on mounting springs is vibrated by the unbalance vibro motor mounted at the bottom of the table.

**SRE MAG** Vibratory tables offer a fast, efficient and economical method for compacting a wide variety of materials powdery, granular or flaky in boxes, drums or cartons. They are versatile and widely used for industrial applications to package, shock and fatigue test and for densifying refractory blocks, concrete products. They can also be used as shakeouts for some foundry flasks and in concrete block industries.



## RECTANGULAR ELECTRO LIFTING MAGNET

MODEL NO	SIZE OF MAGNET (IN MM)	POWER INPUT	KW	WEIGHT OF MAGNET (IN TONE)
SRE RE 10	1300 X 450 X 270	110V	2.0	1.00 T
SRE RE 20	1370 X 470 X 300	110V	2.5	1.05 T
SRE RE 30	1500 X 500 X 400	220V	3.0	1.25 T
SRE RE 40	1800 X 550 X 500	220V	3.5	1.45 T

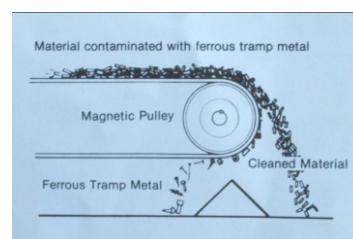
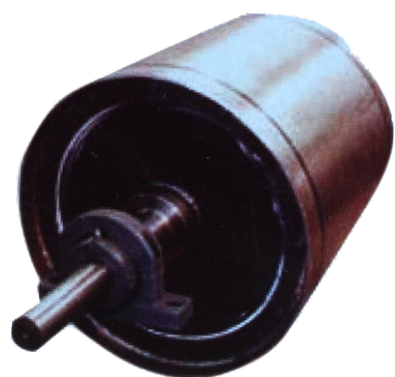
**SRE MAG** Magnets mainly used to lift heavy sheets, plates, Round or Square bars, bundles, billets, ingots and many similar applications, in shipyards, steel mills and foundries. The magnet makes direct contact with the surface, as a gap of as little as 1 mm can cause a 50% reduction in lifting capacity.

These magnets can be used individually or in multiples with different types of suspension systems.

The correct choice of system depends on the following factors :

- The structure and function of the crane.
- The type of traverse fitted.
- The shape and surface of the material to be lifted.





## MAGNETIC HEAD PULLEYS

**SRE MAG** Magnetic Pulley Provide contentious protection against tramp iron contamination of both large and fine iron particles. As product passes over the head pulley, non-ferrous material is discharged in a normal trajectory. Ferrous metal is attracted to the pulley and remains on the belt until the belt moves away from the pulley falling clear of the product stream. The separation is automatic and continuous. Widely used in Recycling / Processing of aluminum, plastic, glass, wood and other non-ferrous materials flows including Chemicals, food, grains, textile, ceramic and coal. Metal recovery / separation of screws, nails, fasteners, blanks, wire chain, tools and various ferrous objects from your product flows.

### Application :

Tramp Metal Removal from Conveyor Systems, Purification and Concentration of Ores, Chemicals and Granular Products.

### Features :

- Efficient, cost-saving recovery of harmful tramp metal, super-tough, trouble-free operation.
- Exclusive continuos radial pole design grabs long rod-like tramp iron across the pulley face.
- Develops especially powerful magnetic field at the center of the belt, where burden is deepest.
- No DC power supply required
- All welded body and face construction - no bolts or screws to work loose
- Easy to install, permanent magnetic Pulley require no maintenance.



## MAGNETIC FLOOR SWEEPER

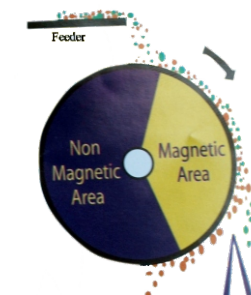
**SRE MAG** Magnetic floor sweepers are well built and incredibly strong with powerful magnetism. These sweepers perfect for clearing metal debris from walkways, garages and yards. Reduce the possibility of costly flat tires or personal injury, and decrease the time needed to clean up scattered ferrous metal material.



## MAGNETIC GRILL

**SRE MAG** Grate Magnets provide a high intensity high gradient magnetic field to remove ferrous metals from free-flowing materials. grate Magnet are available in round, square, and rectangular shapes as per your requirement. It is used in or below hoppers, in closed chutes, floor openings, catch bins, and other locations to protect processing equipment and insure product purity. These grids encased totally in stainless steel.

For higher level of protection, double and triple banked grids can be used. All grids are available with either ferrite or powerful rare earth magnet.



## MAGNETIC DRUM SEPARATOR

**SRE MAG** Magnetic drum separators offer the highest level of magnetic strength and are appropriate for many different applications, including scrap processing, auto shredding, mining, aggregate, or anywhere large volumes of metal need to be removed.

### Drum separators are offered with multiple options, including :

- Mounting frames
- Custom magnetic arcs
- Custom designs



### OVER BAND ELECTRO MANGNETIC SEPARATORS

#### Over Band Electro Magnetic Separators

Sremag is an Over band magnetic separator manufacturer and over band magnetic separator supplier in India.

OVER BAND ELECTRO MAGNETIC SEPARATORS is one of the magnetic separators that attracts ferrous particles, suspended above a conveyor belt where Mild steel materials are lifted up from the conveyor. The attracted iron particles are held against the bottom side surface of the separator until removed or by self-cleaning method in which there is a belt that travels continuously around the magnet.

They are of two types

Cross belt magnetic separators

Inline magnetic separators

Both types come with the option to be either (i) Air Cooled, (ii) Oil Cooled.

These two magnet types – Inline and Cross belt are self-cleaning separators. They have an electromagnet that is surrounded by a moving belt conveyor. It has the same functions as the suspension magnets, but the ferrous iron particles are separated and they are simultaneously knocked off from the magnet and from the conveyor line as well. This is why it is a self-cleaning magnet. This magnet does not require any manpower during or after its operation.

The inline and cross belt magnetic separators are of various capacities and can be custom built to work efficiently in different parts of the world.

The Electro over band magnetic separator consists of a stationary tri-polar design magnet unit, with coils wound in aluminum wire or foil (copper available as an option) dependent on size, and insulated to Class 'H' (or above) temperature specification to receive DC power supply. Magnets can be air or oil cooled, whichever is more suitable for the application. Oil cooled magnets are fitted with expansion tanks to ensure the coil is always immersed in oil.



### SUSPENSION ELECTRO MAGNET

#### Suspension Electro Magnet

Air Cooled

Oil Cooled

Sremag is a suspension magnet manufacturer and suspension magnet supplier.

Sremag Suspension Magnets are designed for installation over conveyors where tramp iron contamination exists and needs to be removed for protection of subsequent processing machinery or providing a cleaner product. Just suspend the magnet over the conveyor or over the head pulley. When the magnet surface starts to fill up, swing the magnet away from the conveyor and cut the power (electromagnet) to release the attracted metal.

Electro Suspension Magnet consisting of aluminum or copper wound coils are immersed in a transformer oil (for prevention of overheating or shorting) or they are air-cooled for extreme or dusty environments. All electro suspension magnets come along with a control panel.

Operating heights up to 50 mm to 450 mm are available. Manually cleaned magnets can be supplied with a stripper mechanism with no power consumption and they are virtually maintenance free.

customer data / requirement, the size, KW, & the cooling method of electro magnet will vary.

MODEL NO	SIZE OF MAGNET (IN MM)	POWER INPUT	KW	WEIGHT OF MAGNET (IN TONE)
SRE RE 10	1000 X 1000 X 800	220 VDC	8	3400
SRE RE 20	1200 X 1200 X 900	220 VDC	12	4500
SRE RE 30	1500 X 1500 X 900	220 VDC	14	6000
SRE RE 40	1800 X 1800 X 900	220 VDC	15	4000

\*\* Special size for Sugar Plant bagasse conveyor.

Note: As per customer data / requirement, the size, KW, & the cooling method of electro magnet will vary.





## Excavator Electro Lifting Magnets

### Excavator Electro Lifting Magnets

Excavator Electro Lifting Magnet can be used in any type of excavator by changing the bucket or the attachment placed at the boom end which is used to lift metal scraps, bundles, MS plates and ferrous materials during loading, unloading, and material handling. It provides a crane operator with complete control of the magnet in various positions.

Sremag is an Electro Lifting Magnet manufacturer and Electro Lifting Magnet supplier.

Excavator Electro Lifting Magnet's mounting arrangement overcomes the problem of working in an open yard where overhead cranes cannot be used. An Excavator Electro Lifting Magnet gives a crane operator complete control of the magnet in various positions, permitting the crane operator to incline or tilt the magnet. The mounting fixture for an electromagnet further permits the excavator operator to operate the magnet more efficiently by preventing the magnet from swinging freely at the end of the lift crane boom. It also allows the crane operator to apply a compressive force to the electromagnet in order to compress the material which is to be picked up by the magnet.

The excavator operator can operate the Excavator Electro Lifting Magnet efficiently by picking up additional loading material, and loading. Furthermore, the excavator operator is able to incline or tilt the electromagnet in accordance with the higher magnet to reach material from its hard-to-reach corners or angles which makes the electromagnet much more effective.

Sremag Electro Lifting Magnet can be fixed or mounted on any type of excavators and power to the magnet is generated from Alternator, Generators and EB Power.

Excavator Electro Lifting Magnet is easy to use and reliable in operation.

Electro Sremag Electro Lifting Magnet is effectively utilized upon small to medium sized metal scrap. It's operable in open yards and remote areas where the power source is not accessible.

ElectroSremag Electro Lifting Magnet is easily attached and removed from excavators.



## JCB Electro Lifting Magnet

### JCB Electro Lifting Magnet

Sremag is a well known JCB Magnet manufacturer in India.

JCB Electro Lifting Magnet's mounting arrangement overcomes the problem of working in an open yard where the overhead cranes cannot be used.

JCB Electro Lifting Magnet gives the crane operator a complete control of the magnet in various positions, permitting the crane operator to incline or tilt the magnet. The mounting fixture for an electromagnet further permits the excavator operator to operate the magnet more efficiently by preventing the magnet from swinging freely at the end of the lift crane boom. The mounting fixture for an electromagnet also permits the crane operator to apply a compressive force to the electromagnet in order to compress the material to be picked up by the magnet.

The JCB operator can operate the JCB Electro Lifting Magnet more efficiently by picking up more material loading in a truck or container with higher density material. Furthermore, the ability of the JCB operator is to incline or tilt the electromagnet in accordance with the higher magnet to reach material from the hard-to-reach corners or angles, which makes the electromagnet much more effective.

MAGNET MODEL NO	SIZE OF MAGNET DIA	KW	APPROXIM WEIGHT OF MAGNET (IN TONES)	LIFTING CAPACITY (IN KGS)			
				SINGLE SOLID	STEEL TURNING	PIG IRON	MELTING SCRAP
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SRE CM 40	1350	12	2.5 TON	15000	400	1200	1000