

MAGNETS FOR:

TRAMP METAL

# HEAVY DUTY INDUSTRIES

RECYCLING

PAPER & PULP

MINING

FOUNDRIES



...& MUCH MORE!

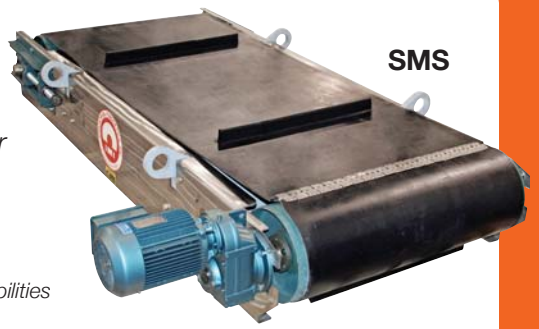
## SUSPENDED OVERHEAD MAGNETS

Suspended magnets are designed for separation of ferrous metal from a variety of over-the-belt conveyor applications. Proven in industries such as Mining, Aggregate, Recycling, Tire Shredding, Foundry, Wood Chip, Pulp & Paper, Power Generation, Construction and Demolition. (Tech Sheet TG-12A).

- Protect vital processing equipment from ferrous metal damage
- Improve product purity and quality for high volume belt conveyed products
- Deep reaching magnetic circuits supply superior separation capabilities
- Use prior to a metal detector to achieve maximum separation and system performance capabilities
- Reclaims valuable ferrous metal
- Reduce product liability

### Self-Cleaning Permanent Magnets

IMI's SMS series of magnets offer optimum operating efficiency with a continuous cleaning belt to keep the magnet face free of collected metal. The powerful, deep reaching magnetic circuit pulls metal to the face of the magnet where the cleated belt can remove the metal off the end of the magnet and out of the product flow. The compact design of the SMS makes it ideal for use on portable, size reduction equipment.



SMS

### Suspended Electromagnets (SEMO)

These powerful electromagnets are designed to deliver peak ferrous metal separation performance. The "Deep Reaching" magnetic field is ideal for applications that require increased suspension heights for the magnet or that have a deep product burden.

The Self-Cleaning Suspended Electromagnet offers optimum separation capacity by removing collected metal from the magnet face instantly and discharging it out of the product flow. This continuous cleaning function allows the magnetic circuit to maintain maximum magnetic strength at all times.



SEMO (Self Cleaning)

Manual Clean SEMOs are best suited for applications with a lower volume of ferrous metal in the product flow or in applications where the system is only run intermittently. The ability to turn the magnet "OFF" makes removing the collected metal easy for the operator.

### Manual Clean Permanent Magnets (SPMC)

These magnets are a good economical solution for applications that require a magnet for equipment protection but don't encounter enough ferrous metal in their product flow to justify a self-cleaning magnet.



SPMC (Optional Swiper Bar Shown)



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For More Information On These Products Call For the Tramp Metal Overview

TGHD (09/12)

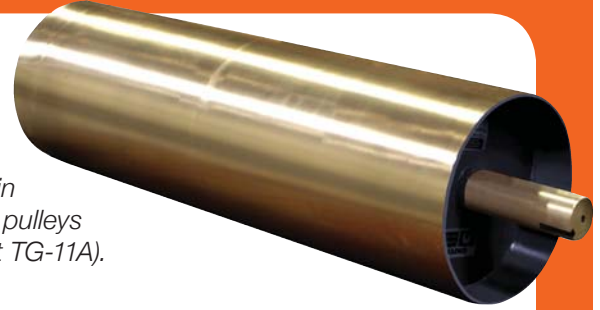
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## MAGNETIC SEPARATION PULLEYS

Powerful permanent Magnetic Separation Pulleys are typically installed as head pulleys in conveyor system applications. They provide effective, automatic and continuous removal of tramp metal from a material flow. Commonly used in industries such as waste recovery, mining and bulk material processing. Our pulleys improve product purity and protect equipment from metal damage. (Tech Sheet TG-11A).



- Removable Steel Shaft
- Powerful Permanent Magnet Circuit
- Taper lock on some models, verify with factory
- Stainless Steel Shell
- Straight hub with keyway
- Axial magnetic circuit design

## DRUM SEPARATORS

Drum Separators provide ferrous metal removal from dry, bulk products in free-flowing processing systems. Due to the nature of their design, Drum Separators are continuously self-cleaning units. These separators can be provided as a complete assembly with the housing and the drive package included, or as the magnetic drum only. (Tech Sheet TG-10A)



- Powerful Ceramic or Rare Earth Magnet Material
- Manually adjustable magnetic arc position
- Sealed Bearings for Drum Support and Drive
- Over 180° of Magnetic Arc Protection
- Custom sizes available

## EDDY CURRENT SEPARATORS

Our Eddy Current Separators are designed from the ground up to provide high recovery rates (97%+) and low operating costs. Eddy Current Separators are ideal for a range of applications, including: MRF (Material Recovery Facilities), C&D, Incineration, Auto Shredding, Electronics Recycling and more. (Tech Sheet TG-13A)



- High grade Rare Earth magnets
- Carbon fiber shell minimizes ferrous burnout
- Internal motorized drive drum for more compact design
- Removable side plates for easy access and maintenance
- Urethane belt with corrugated sidewalls
- +/- 1% of out throws in your clean aluminum
- Stainless steel sleeve on all rotors
- Low profile design (easy retrofit)
- 3/8" thick heavy-duty fold channel construction
- Take up screw adjustment for easy belt tensioning and tracking
- Cantilever design for one piece belt change

## CUSTOM SOLUTIONS AVAILABLE

We specialize in solutions that cannot be found elsewhere. The vast majority of our product lines can be customized to fit just about any application provided. If you do not see a product that will accommodate your needs, our engineers will diligently design a solution that will work for your specific application. Contact us today!

