

GLOBAL. MAGNETIC. FORCE.™



Aggregate, Mining, and Minerals



# About BUNTING

Bunting is an industry leader in the design, manufacture, and sales of cutting-edge magnetic equipment used in applications such as magnetic separation, metal detection, conveyor systems, custom manufactured magnets, and more. All of the products we sell are custom-designed by our engineering team. We work with customers to determine their exact needs and develop a product that will perfectly suit the challenges of the industry they are working in and the materials they are handling, as well as being designed to fit within the existing layout of the customer's facility.

Since 1959, Bunting has been a family-owned, familyoperated company. Headquartered in Newton, KS, Bunting currently has multiple manufacturing facilities within the United States as well as abroad in the United Kingdom. We are committed to upholding the values of innovation, dedication, and hard work that Bunting was founded upon sixty years ago.

As technology continues to advance across every industry, Bunting remains committed to integrating new technology into our products, creating solutions that address modern industry challenges, and continuing to expand our domestic and international reach.

**Bunting-Newton** primarily focuses on magnetic equipment for magnetic separation and metal detection applications. Newton, Kansas has served as the company's headquarters since 1979. Here, we design and manufacture magnetic separation, metal detection and material handling equipment as well as a complete line of printing cylinders. With a team of engineers using world-class, computer-aided design equipment, we can customise and develop products to fit any application or production line.

Bunting-DuBois has a unique role as it is the only North American manufacturer of compression bonded, injection molded, and hybrid magnets used in custom designed permanent magnet assemblies. These assemblies are used in the military, aerospace, automotive, and other industrial commercial industries.

Bunting-Elk Grove Village is home to the company's Magnet Materials division. Bunting-Elk Grove Village provides the largest online selection of permanent magnets and magnetic equipment, with all in-stock items able to be shipped within 24 hours of an order being placed on its website, BuyMagnets.com.

Bunting-Berkhamsted provides total magnetic solutions from individual magnets and magnetic sub-assemblies to magnetic separation, material handling, and metal detection equipment to various industries throughout Europe and the UK. Bunting-Berkhamsted also manages e-MagnetsUK.com, where customers may purchase a wide variety of commonly used magnets.

Bunting-Redditch provides a complete line of magnetic separation, recycling, and metal detection equipment to industries across the globe through a worldwide network of distributors.



# **Bunting**<sup>®</sup> Magnetic Technology for All Industries

ElectroMax

The unique benefits of magnetic technology can be utilised across a wide range of applications, and Bunting is always looking to the future regarding new challenges that present themselves in the many industries we work with. Bunting engineers are constantly working to develop new technologies and improve upon our existing product lines. Bunting custom designs, manufactures, and distributes a broad selection of magnetic separation and metal detectors for the following general sectors:

# FOOD AND PHARMACEUTICALS

**PLASTICS** 

RECYCLING

**AUTO SHREDDING** 

AGGREGATE, MINING MINERALS

**TEXTILES** 

**METAL STAMPING & FABRICATING** 

PRINTING, DECORATING AND CONVERTING

CERAMICS

CUSTOM MAGNETS AND MAGNETIC ASSEMBLIES

### **STOCK MAGNETS & MAGNETIC TOOLS**

Across all the industries Bunting works with, our commitment to providing quality products and customer service remains consistent. Bunting enthusiastically offers custom designed applications for customers bringing unique challenges to the table, and we take pride in working individually with each customer in order to provide the best product possible.

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### Permanent Magnets:

Permanent magnets are essential to virtually every type of modern technology and convenience. Being able to provide the optimum magnetic solution to the customer requires in-depth knowledge of the full supply chain. Bunting's team of magnet experts and engineers is fully equipped with this knowledge. Bunting entered the magnetics industry in 1959 as a magnet distributor and rapidly grew to a manufacturer of magnetic products, focused on custom design and customer-focused engineering. Today, Bunting is a leader in manufacturing and designing a diverse range of innovative magnetic technologies across industry sectors. Listed below are the general permanent magnet types that are used in Bunting products.

### **Neodymium Iron Boron Magnets**

Neodymium magnets are a type of rare earth magnet and are the most common rare earth permanent magnets in the world. They are composed of Neodymium (Nd), Iron (Fe) and Boron (B), and exhibit the highest maximum energy product of any permanent magnet material. However, these magnets are vulnerable to corrosion if they are exposed to the elements. To protect the magnet from corrosion, the magnet is usually coated with nickel. Other coating options are aluminum, zinc, tin, copper, epoxy, silver and gold.



### **Plastic Bonded Neodymium Magnets**

These magnets are-cost effective while offering high performance and tolerances in addition to low electrical conductivity. It is possible to multipole magnetise them as a complete ring, and they can be designed to achieve specific flux density profiles. These are especially well suited for applications such as minimising cogging torque in motors. These injection molded magnets are an excellent choice for higher volume applications. Compression bonded magnets can also be easily machined, making them suitable for low volume production in manufacturing magnets with multipole magnetisation, skew angled poles, and various other directions of magnetisations. Magnetising patterns are only limited by whether or not a magnetising coil fixture can be produced to give the required magnetising pattern.

- Bonded NdFeB magnets can be compression or injection molded to final shape. These high tolerances can be achieved without the need for further machining.
- Injection molded magnets are available in both neodymium and ferrite varieties.
- Injection molded ferrite magnets offer high durability and resistance to shock, as well as a low cost and extreme resistance to corrosion and conditions such as low density.
- Available in high tolerance and complex shapes.
- No coating required, although black epoxy and Parylene coatings are available.

### **Samarium Cobalt Magnets**

Samarium cobalt magnets are rare earth magnets that offer high maximum energy products and can operate in high temperature environments. They are extremely strong and typically allow for smaller size magnet profiles. Though not as strong as neodymium magnets, samarium cobalt magnets present three significant advantages. They work over a wider temperature range, have superior temperature coefficients, and also have a greater resistance to corrosion. Special coatings are available for specific marine and automotive applications.

Samarium cobalt magnets are one of the most useful magnets for high temperature applications. They retain most of their energy up to 575° F, making them ideal replacements for Alnico magnets when high temperature use or miniaturisation is required. Samarium cobalt magnets are known for their excellent temperature stability—maximum use temperatures are between 250 and 550°F; Curie temperatures range from 700 to 800°F.

### Ceramic

Ceramic magnets, or ferrite magnets, are low cost, lightweight, moderate energy permanent magnets capable of withstanding operating temperatures of up to 480°F. They are highly corrosion resistant and work well in high volume applications. Ceramic magnets can be made in many shapes and sizes, can be ground to intricate and accurate shapes, and can even be designed to be small enough to be used in micro applications.

### **Alnico Magnets**

Alnico magnets are alloys comprised of aluminum, nickel, iron, and cobalt. They have the highest operating temperature and temperature stability of any permanent magnetic material. They retain approximately 85% of roomtemperature magnetisation at temperatures of up to 1,000°F. They possess high residual induction as well as relatively high energies. Alnico magnets naturally possess an excellent corrosion resistance.



# AGGREGATE, MINING, AND MINERALS

Bunting is committed to helping customers across many industries "break ground" as our equipment assists them in solving challenging problems. We "dig down" to find the root cause of their problems and use specialty software to custom-design the best solutions to fit the customer's needs. We offer exceptionally rugged magnets and heavy-duty magnetic separation equipment specifically to cater to customers in the aggregate, mining, and mineral industries. Working with these materials is tough, but Bunting equipment is even tougher. Our magnetic equipment will protect the other equipment utilised in your facility and allow you to deliver the highest purity product to your customers.

Bunting provides equipment to help aggregate, mining, and mineral companies by using magnetic separation technology to remove metal contaminants from product streams and providing metal detection equipment to alert operators of ferrous and non-ferrous metal hazards trapped within greater product mass. All of our equipment is designed to be low-maintenance and operator friendly to increase efficiency and decrease downtime in your production. Bunting protects your products from damage and increases the overall efficiency of your operations.

All of our products are custom designed according to the customer's specifications, allowing for them to integrate seamlessly into the existing production environment. Our team of engineers works with each customer to deliver a personalised piece of equipment with the physical dimensions to best fit your space and the magnetic components that best suit your separation and detection needs.

Our ruggedly built magnets and magnetic separation equipment is designed specifically for the aggregate, mining, minerals, and quarrying industries to protect your belts, crushers, and other expensive equipment from tramp metal. This allows you to experience more productivity, more reliability, and more savings.

# SELF-CLEANING OVERBAND MAGNETS FOR HEAVY-DUTY APPLICATIONS

Our self-cleaning overband magnets have earned a reputation as being the most effective units for the continuous removal of ferrous tramp contaminants from a product stream. Most commonly used on mobile crushing and screening machinery, overband magnets are available in permanent and both oil-cooled and air-cooled electromagnetic configurations. These separators are popular in the concrete recycling and quarrying industries, as they are highly effective at protecting, cleaning, and separating materials. Their heavy-duty construction and powerful magnetic force allows them to handle even the toughest, most challenging applications.

# Permanent Magnetic Overband Separators

### General Benefits of Overband Magnetic Separators:

- Overall low operating costs, allowing for a cost-effective equipment upgrade.
- Designed to be low maintenance and operator friendly, with advanced safety features to protect operators and equipment in your facility.
- System is designed to be durable and capable of operating in challenging environments. The powerful magnet block is mounted in a heavy-duty steel frame and traversed with a heavy-duty, vulcanised, cleated belt that runs on two crowned pulleys.
- Electric or hydraulic motor options are available depending on your application needs.

- Self-cleaning system minimises downtime and improves operational efficiency.
- Standard designs operate over 120mm to 2 metre con veyor belts and up to 400mm above a conveyor. Systems can be custom designed to fit large conveyor belt widths.
- Can be positioned either inline over a conveyor head pulley or suspended across a conveyor belt. These versatile mounting options allow equipment to easily integrate into various configurations of existing equipment in a facility.
- Available in permanent and electromagnetic configurations.
- When a deep reach or a stronger field is required, Bunting offers an optional Tri-Polar design. This unique design uses two massive side poles to concentrate and intensify the magnetic field to the center of the magnetic block.



# ElectroMax Air Cooled Overband Magnetic Separator

The new ElectroMax Overband Magnet is 185% stronger than equivalent permanent overband magnets. The ElectroMax provides customers with a smaller, lighter and more compact system without any compromise in separation performance.

The ElectroMax Overband Magnet is ideally suited for applications where there are weight and size suspension limitations. It provides additional magnetic power for more difficult tramp metal separation applications, achieving a boosted separation force while still remaining compact and light. The electromagnetic coil produces a high gradient magnetic field that is up to 185% more powerful than comparable equipment. This enables the removal and separation of smaller and more challenging shapes of iron contaminants often missed by other magnetic separation systems. The additional magnetic strength also aids the lifting and removal of heavier tramp ferrous metals.

### General Benefits of ElectroMax Overband Magnetic Separators:

- Half the weight of an oil cooled magnet.
- Lower profile (46cm), than an oil cooled magnet.
- Substantially less maintenance than an oil cooled magnet.
- Air cooled transformer rectifier included.
- Armor cleated belt optional.
- Durable construction ensures longevity of equipment and keeps maintenance to a minimum.
- Dual-pulley system drives self-cleaning belt, reducing overall weight and size of equipment.
- Air cooling system eliminates need for any oil or conservator tanks.

- Switching off power to the ElectroMax deactivates its magnetic field, allowing for easier, more convenient maintenance in between operations.
- Four standard models are designed for suspension at a height of 450mm over conveyors with widths of 1, 1.2, 1.4 and 1.5 meters.
- Average comparisons between the new range of ElectroMax equipment and the permanent overband equivalents show a 185% increase in magnetic power.



# **Oil Cooled Electro Overband Magnetic Separator**

# A powerful Overband Separator for deep & heavy ferrous extraction

The Heavy-Duty electro Overband Separator is the most powerful in the Bunting line, and available in sizes to fit any aggregate, mineral, and mining operation. Due to its high magnetic strength, this Overband Separator is able to work at an increased operating gap, enabling it to extract ferrous from the deepest troughed conveyors.Electro Overband Separators are commonly positioned either inline over the head pulley, or across conveyor belts as little as 60cm wide to 210cm. For even larger belt widths, our engineers can custom design and add additional support structures as required.

To give the Overband Separator a longer belt life (especially when handling abrasive materials) an optional armored belt is available. In addition, heat-resistant belting is available to allow the heavy-duty Overband Separator to operate at higher ambient temperatures.







# **Suspension Magnets**

Permanent suspension magnets are designed to extract occasional tramp iron from material being processed by means of a vibratory feeder, gravity chute, or conveyor belt. They are exceptionally efficient in removing tramp iron from coal, stone, fertilisers, recycled asphalt, slag, gypsum, ores and similar materials. Removing tramp metal contamination helps protect the other equipment in your facility from being damaged and maintains higher purity in the materials you are processing through your operation.

### **Benefits of the Permanent Magnet Design**

- Constructed using non-deteriorating, high power ceramic components.
  - Optional Rare Earth models available.
- Intensely durable construction resisting moisture, corrosion, and heat.
- Inexpensive to operate with no cables or wires required.
- Ferrous material is extracted and held in place until manually ceaned off.
  - Optional rubber wiper assists in removing the collected ferrous.
  - Optional stainless steel slider plate simplifies clearing of ferrous.

• Optional Tri-Polar design increases field strength and reach.

- Suspension magnets come standard with suspension chains and hardware .
- Can be suspended horizontally or on an incline.
- Available sizes cover a full range of conveyor widths.



### Benefits of the Air-Cooled ElectroMax Suspension Magnet

- Lighter than oil-cooled electro suspension magnets.
- Less maintenance than oil-cooled electro magnets.
- Durable construction ensures longevity of equipment.
- Ferrous material is extracted and held in place until power is turned off.
- On/Off switching simplifies removal of collected ferrous.
- Comes standard with suspension chains and hardware.
- Works on burden depths up to 600mm depending on material being separated.

### **Benefits of the Oil Cooled**

- Strongest option available.
- Maintains optimum working temperature.
- Maximum protection for your processing equipment.
- Holds extracted ferrous material in place until power is turned off.
- On/Off switching simplifies removal of collected ferrous.
- Comes standard with suspension chains and hardware.
- Works on burden depths up to 760mm depending on the material being separated.



# Metal Detection: Custom Designed for Aggregate and Mining Applications

# TN77 CONVEYOR BELT METAL DETECTOR

Metal Detection for the Aggregate, Mining, and Minerals Industry

The electronic TN77 metal detector is a tunneltype unit that is generally installed onto conveyor systems. The TN77 enables a continuous inspection to be made of any non-metallic or non-conductive materials. The unit is used for the detection of tramp iron and manganese steels where their presence would prove damaging to processing equipment or a clients' end product.

### **Product Features:**

- Reliable protection against machinery damage
- Detection of tramp iron & manganese steel, including non-magnetic digger teeth.
- Easy installation into a customers' existing conveyor system.
- Simplicity of operation with fully adjustable sensitivity/detection levels.
- Capable of indicating if one or two pieces of tramp iron are simultaneously detected.
- Capable of overlooking non-magnetic, copper-alloy belt fasteners



# EDDY CURRENT SEPARATION CONVEYOR

These units can be designed into a complete custom system for maximum product purity. The system could include: Transfer Conveyor into and out of the system; HISC<sup>®</sup> High Intensity Separation Conveyor<sup>®</sup> or SSSC<sup>®</sup> Stainless Steel Separation Conveyor<sup>™</sup> for stainless steel separation; Magnetic CrossBelt<sup>™</sup> Separation Conveyor for larger ferrous tramp; and Vibratory Feeder Trays. Bunting Engineers will provide full 3-D System CAD Models and 2-D drawings for system review analysis when orders are placed.

- Designed to provide the optimal eddy current fields to achieve the maximum separation of small non-ferrous metals from other materials.
- Low maintenance conveyor with extremely tough urethane belts to allow longer wear.
- Cantilever frame weldment design allows easy belt change within minutes.
- Double VFDs for optimising relative belt speeds.
- Available in varying widths with four rotor options available based on your application needs.
- Units can be designed into "custom systems" in combinations with equipment.

### High Intensity ECS Units:

The High Intensity ECS units are specifically designed to handle the separation of small and difficult non-ferrous particles that require high repulsive forces for an accurate separation. This type of unit has a 300mm diameter, 24 pole rotor and is available with operating widths of up to 2 metres.





### **Optional extras include:**

- A high powered rare earth drum magnet to be utilised in applications with high ferrous content to remove small particles of ferrous materials, which may damage the rotor cover if caught underneath the belt.
- Rotary or static belt cleaning brushes for use in applications where the product may be wet or sticky.
- Mobile chassis.
- Power plant.

# **Standard Drum Magnet**

Designed for separation of ferrous from high volume loads. Drum magnets provide an efficient method for removing ferrous material from heavy-flow applications. They are self-cleaning and install easily.

- All drum magnets are available in electromagnetic or permanent designs, as well as including the option to be made with a high intensity rare earth magnetic system (ideal for separation of exceptionally small contaminant particles).
- Allow continuous separation and cleaning without interruption to the product flow.
- Ideal for high-flow, heavy-contamination applications.
- Optional manganese wear plates for abrasive materials.
- Multiple drums can be used sequentially for heavily contaminated product.
- Direct drive with an optional variable speed control based on your application needs.
- Open style design (free of housing) is ideal for installing at the end of conveying machines, such as chutes, for removal of ferrous contaminants.
- Totally enclosed design (equipped with housing) is ideal for applications where product must be kept free from external contamination, as well as protecting your employees from inhaling any dust being given off from the product.





# **Magnetic Separation Pulleys**

Offering superior continuous removal and discharging of ferrous contamination, such as nails, staples, bolts and wire from conveyors, all with maintenance-free operation. OEM Separation Pulleys are economical magnetic separation pulleys that can be used to transform your standard material handling conveyor into a material separation conveyor. Being able to combine the transport of your materials and the separation of contaminants into one simple step increases the efficiency of your operation

- Manufactured for maximum reach-out, holding force and separation effectiveness.
- Available in both economical ceramic and the high-intensity neodymium rare earth magnets for maximum separation.
- Pulleys are 100-1200mm in diameter depending on your application needs. These pulley systems offer maintenance-free operation.
- Widths from 100mm up to 2100mm wide
- Available in all-stainless-steel construction with food, sanitary, and USDA finishes available to fit your production safety regulations.
- Pulleys are offered with economical stepped crowned face, machine crowned face, flat faced and provide an assortment of rubber vulcanised crowned covers. These pulleys can be provided with the same shaft your existing conveyor has, making the switch from a standard to a magnetic pulley system quick and easy.
- We offer an assortment of taper lock or QD hubs for any shaft diameter you need or welded in shafts to slip into the end of your conveyor and match up perfectly.

# High Intensity Separation Pulleys

Built with high-intensity neodymium rare earth magnets, these pulleys are designed for the toughest jobs that require maximum separation. High-intensity separation pulleys are ideal for separating materials that are difficult to magnetically attract and separate from a material flow using standard methods, such as paramagnetic fine particles, stainless steel scrap, and work-hardened fasteners.

- Deep reach rare earth field pulleys are ideal for installation in high volume processing lines to ensure all ferrous metals are removed from deeper burden streams before they reach other equipment.
- Pulley units can be incorporated on OEM conveyors, providing reach outs of 10" to 12" with unmatched field intensity.
- Low reachout rare earth field pulleys are available, designed to have high gauss, super high-intensity fields while maintaining a low reachout in order to suit low volume applications.
- Low reachout pulley units can be easily incorporated on OEM conveyors to create an all-in-one system for conveying and separating materials.
- Electro Pulleys available with variable flux control for selective separation of materials with different magnetic properties.

# **Rare Earth Roll Separator**

The Rare Earth Roll Separator is ideal for handling dry material, whether fine or coarse, and purifying it of ferromagnetic and paramagnetic particles. Within the production line, a vibratory feeder loads material to be treated onto a short centered thin conveyor belt, allowing for material to be fed evenly onto the magnetic roll. Any magnetic elements present in the greater non-magnetic material are securely held onto the belt by its powerful magnetic force, a result of the neodymium magnets this equipment incorporates. These magnetic contaminants are discharged down a rear chute once the belt exits the magnetic force area present on the underside of the roll. This system efficiently traps magnetic contaminants while allowing non-magnetic material to be discharged in front of the roll, following its normal trajectory in the production line.



- Composite high-intensity magnetic head pulley utilises neodymium magnets, the most powerful permanent magnets available.
- Magnetic rolls are available in 75mm, 150mm, and 200mm diameters, up to a width of 1 metre
- Multiple configurations of rolls are offered, giving the non-magnetic fraction a further pass for improved product purity. Material from 100 micron to 5mm can be treated.
- Varying separation trajectories can be set by adjusting the conveyor speed using the inverter control setting on the control panel and adjusting the splitter chutes.
- Can be used in a variety of applications, including ceramics, granulated slag, iron ores, plastics, silicones, ilmenite, mica, crushed glass, refractory material, high purity quartz, granite, talc, and battery recycling.

# Laboratory Testing

To arrive at the best separation criteria, Bunting uses a fully equipped laboratory for material testing to ensure optimum equipment selection. Customers are invited to submit samples for testing and evaluation, to ensure that separation performance can be measured, with all the results and process recommendations being submitted for the client's approval. Initial trials are normally carried out free of charge and customers are encouraged, if practicable, to participate in the testing and processing procedure.



# **Induced Roll Separator**

The induced roll magnetic separator provides mineral purification for a wide range of mineral and ceramic processing industries. It works to perform the continuous extraction of small magnetic particles from within material, resulting in an end product free of contamination.

- High intensity magnetic roll causes magnetic material to attach itself onto the roll face or be deflected towards the roll.
- Brush accessory assists in discharge of magnetic material, with a splitter plate interposed to separate material streams, ensuring no separated contaminants will find their way back into the product stream.
- Available in 1, 2 or 4 roll configurations. The roll arrangements can also vary depending on the application and requirements. We manufacture a range of sizes to suit your application.



# **High Intensity Electro Magnetic Filters**

High Intensity Electromagnetic Filters are designed for the continuous removal of ferrous particles from many liquid based applications, particularly ceramic, slips and glazes and are designed to handle from 45 litres per minute to 900 litres per minute. Filters are fitted with an auto backflush system on a timed cycle to enhance performance and to prevent clogging. This feature proves to be particularly successful where superior quality ceramics are required, outperforming competitor units.

The Filters enable companies to overcome the perennial problem faced by the ceramic industry of eliminating iron contamination in the glaze and slip processes, dramatically reducing structural and cosmetic defects in the manufactured product, resulting in costly rejects.



# **Disc Separators**

Disc separators are widely used to ensure accurate separation of materials that have varied magnetic susceptibilities. With their original design dating back to the early 1900s, they have a long history of usage in separation applications. Today, the disc separator has been updated to accommodate modern manufacturing demands and incorporate new innovations in technology

- Material is continuously transported beneath rotating discs where magnetic particles are attracted to the high gradient magnetic zones on the disc. Powerful magnets allow for strong attraction of contaminant particles and ensure they are held securely to the disc before being released at the discharge chute.
- Scrapers mounted on chutes ensure the total discharge of magnetic particles.



# Wet Drum Permanent Separators

Wet Drum Separators are mainly used for the recovery of magnetic/ferrosilicon in dense media plants and iron ores. Wet drum separators work on a similar principle to our other existing drum separators. A stationary magnet system with several radial poles attracts the magnetic material to the drum face. The rotating cover then carries the magnetics from one pole to another, at the same time rotating the magnetic particle to allow trapped non magnetics to free fall.

This should then produce a clean magnetic product completing the magnetic separation process. Wet drum separators have three basic designs that work with 3 different types of application, they are concurrent, counter flow and counter current. The purpose of this is to ensure that we can meet recovery figures of 99.9% when dealing with different solid to liquid ratios.





# **BUNTING**



# Pure success: What the Bunting name means to your aggregate, mining, and minerals industries business.

Bunting is proud to provide innovative, custom-designed solutions for the aggregate, mining, and minerals industries, as well as many other industries such as food and pharmaceuticals, plastics, and recycling. Our equipment is durable, dependable, and driven by the needs of our customers and the modern challenges they face. Bunting has been a family –owned, family-led company since 1959. Sixty years later, we have made massive strides in developing new technology to meet the unique needs of the 21st century, while remaining committed to delivering the highest quality products accompanied by excellent customer service.

We invite you to experience our customer service and products for yourself. Contact your Bunting representative today for more information or to obtain a specific quote.

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