Electro & Permanent Suspension Magnets

The Bunting range of permanent and electro suspension magnets are specifically designed for the removal of occasional tramp iron from conveyed materials.

Commonly used in the mining, quarrying and recycling industries, suspension magnets are an invaluable solution to the protection of processing machinery and for upgrading the quality of the final product.

Permanent Suspension Magnets

Permanent Magnets provide customers with a maintenance-free service life if not mistreated and also benefit from requiring no power source. Permanent Suspension Magnets are manufactured using individual magnet blocks, which are pre-assembled before they are energised to give maximum magnetic performance. The magnet systems are mounted onto a heavy-duty back plate to provide optimum magnetic power that is concentrated directly onto conveyed materials.

For applications that require a magnet to be installed at an operating gap of 300mm or higher, our Tri-polar magnet system is incorporated into the design. The Tri-polar design utilises large steel side members to effectively give three poles across the bottom face of the magnet.

With the Tri-polar range of Suspension Magnets, an 8mm thick Manganese steel impact plate is fitted to the system to reduce product damage to the magnet from the larger sized tramp metals that the units are able to extract.

An easy clean system can also be fitted to the permanent magnet range to ensure the safe removal of any collected tramp metal from the face of the magnet, avoiding injury to operating personnel.

The Tri-Polar Advantages;

- Prevents magnetic leakage
- Results in a cleaner frame
- Achieves a better attraction

Electro Suspension Magnets

Our electro range of suspension magnets has been extended over the past few years to cater for the ever increasing conveyor speeds, size of conveyors and deeper belt troughing.

As with the permanent suspension magnets, the electro range also requires manual cleaning, however the cleaning process of an electromagnet is much simpler as any collected materials can simply be removed by switching off the power supply to the magnet.

The Bunting range accommodates both air and oil cooled coils depending on a customer's specific application. The coils are ducted to maximise heat dissipation by allowing either the oil or air to circulate within the winding. Each electromagnet is supplied with a custom built transformer rectifier to BS EN 60076.

For Electromagnets that are supplied to regions with high ambient temperatures or that will be installed at high altitudes, Bunting de-rate their units to dissipate heat and ensure maximum efficiency as well as the longest possible service life.

Optional Extras;

- Geared Travelling Trolley
- RSA Supports

CLIENT SAMPLE TESTING FACILITY

Bunting has a sample testing facility and a mineral testing laboratory based in the UK, with experienced staff to ensure that the most suitable and cost-effective machinery is recommended for each application. Our testing facility houses a range of equipment, representing smaller scaled versions of our industrial product range allowing accurate scale up to industrial capacities.

REPAIR AND REFURBISHMENT SERVICE

We offer a full repair and refurbishment service for all types of magnetic equipment.

The range of services offered includes:

Appraisal: Site Visit and preliminary report.

Inspect and Report: Equipment stripped down and inspected in our works facility and a detailed quotation of refurbishment or repair.

Repair Service: Mechanical, electrical and fabrication repairs carried out in our comprehensive workshops.

Bunting has over sixty years experience providing innovative magnetic solutions to industries involved in recycling, demolition and reclamation, mining and quarrying, food processing, ceramics production and powders and minerals processing. The Bunting range of systems are known for their high performance and reliable operations.

HANSA