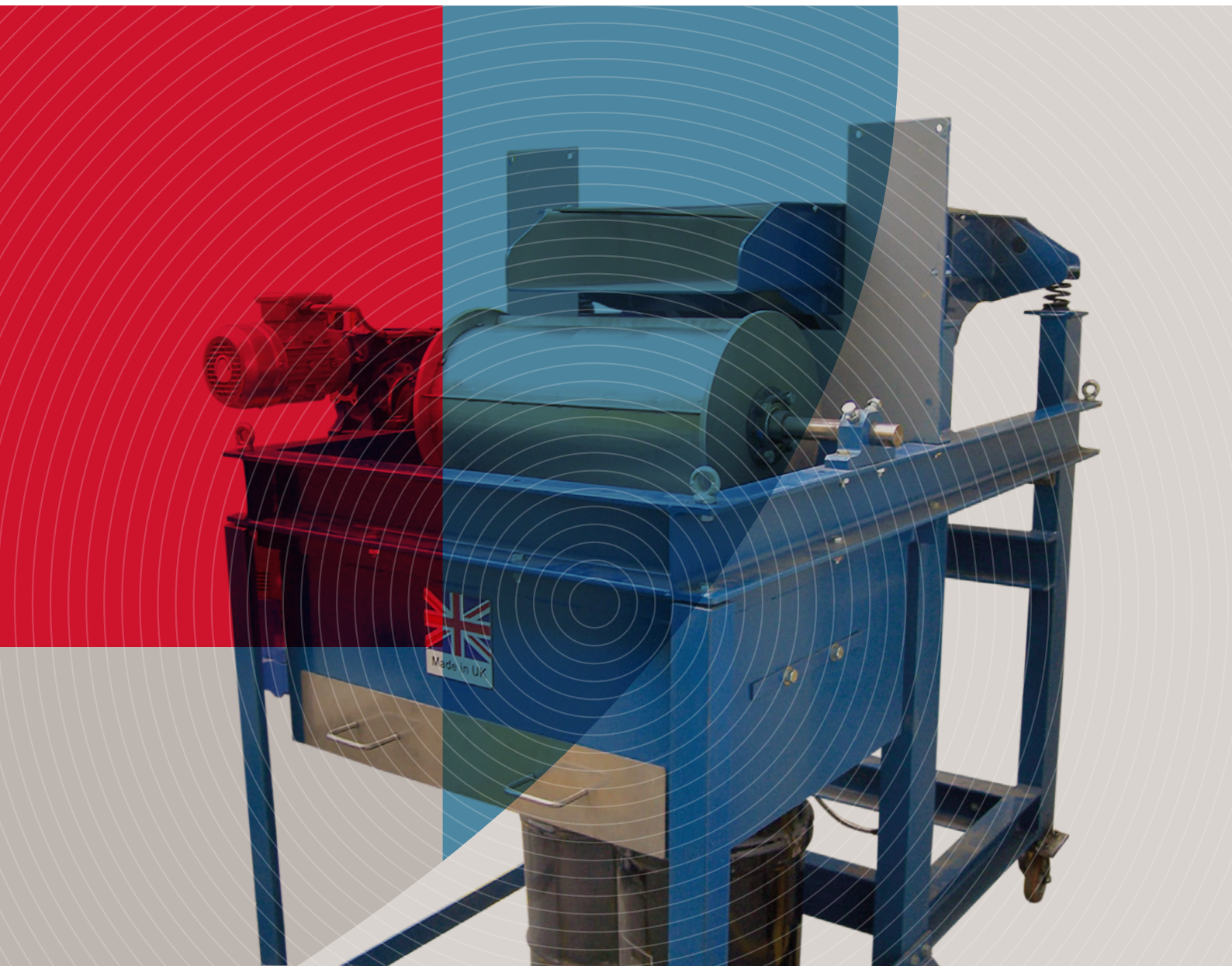


Drum Magnets

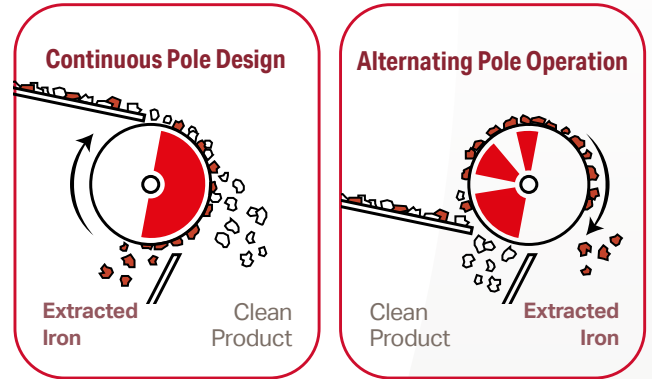


MAGNETIC DRUM SEPARATORS

Magnetic Drum Separators are designed for the continuous extraction of iron from material being fed uniformly onto the face of the drum.

Principle of operation

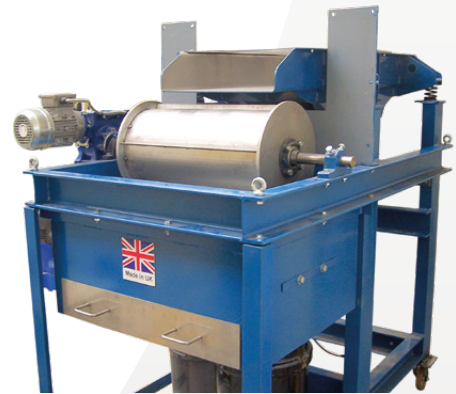
Magnetic Drums are constructed with a 180° stationary magnet system, around which a cover revolves. Material is fed onto the drum cover at the leading point of the magnet section. Magnetics will adhere to the drum cover as it revolves around the magnet system and will be discharged behind the normal trajectory, assisted by the axial wiper bars, after leaving the magnetic field. Non-magnetic materials will fall forward following their normal trajectory.



PERMANENT MAGNETIC DRUMS

Permanent Drums are built using fully stabilised non-deteriorating strontium ferrite permanent magnets, which do not require a power source. The magnets are specifically designed to concentrate all flux at the peak of separation, providing a separator that works constantly at maximum efficiency and is virtually maintenance free.

In certain size ranges, Permanent and Electro Drums have comparable performance and can provide very similar levels of separation. Permanent Drums are generally available at a lower cost than Electro models and are more efficient in the smaller size ranges.



Typical applications of Permanent Drums include the separation of steel swarf from aluminium and for the removal of ferrous contaminants from shredded wood and glass cullet.

ELECTRO MAGNETIC DRUMS

With larger drums, an electromagnet system is most often utilised, with the coil being wound with insulated aluminium wire.

Electro Drums are available in diameter sizes of up to 72 inches (1830mm).



For the large scale processing of material, Bunting manufacture a range of Electro Fragmentiser and Slag Drums for special applications.

Fragmentiser Drums are heavy duty alternating pole drums suitable for the reclamation of fragmentised metals in applications such as municipal refuse and vehicle recycling stations. The alternating pole design allows entrapped metals to flip on the face of the drum resulting in cleaner separated ferrous product.

Slag Drums are powerful radial pole drums suitable for the reclamation of slag in the production of steel. The pole design allows the maximum entrapment of metals and the highest levels of separation.

RARE EARTH MAGNETIC DRUMS

Constructed with a core of Neodymium Iron Boron, Rare Earth Drums are used where high intensities are required on the face of the drum in order to achieve separation requirements.

Rare Earth Drums are suitable for the treatment of ferromagnetic materials. Magnetic lines of flux are concentrated in each internal pole, creating a very high-gradient magnetic field.

For more extreme applications, Bunting can offer Rare Earth Drums that are constructed with wire wrapping to further enhance the magnets intensity.

As well as standard sizes, drums are available bespoke to suit a customer's specific requirements and can also be fitted into totally enclosed surroundings.



TOTALLY ENCLOSED DRUMS

Where product needs to be kept free from external contamination or where any dust given off from processed material needs to be kept within the system, drums can be supplied in fabricated housings.

Housings are manufactured in robust mild steel or stainless steel. Inspection covers, aspirators and divider plates are provided as standard.



Applications of Magnetic Drums

Magnetic Drums have cross industry applications and are generally regarded as one of the most effective forms of magnetic separation.

During operation, material is fed directly onto the face of the magnet. The proximity of the material to the magnet means that separation is carried in optimum conditions.

Drums also have the advantage of a longer service life than other types of separator. Replaceable drum wear covers are constructed from manganese or stainless steel and have a longer life than other wear parts such as belting, when handling abrasive materials.

Drums are suited to any continuous processing of material; from the separation of paramagnetics from minerals and powders, to the recovery of ferrous metals from fragmented end of life vehicles and refuse reclamation.

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.

Please visit our Website at www.mastermagnets.com to view our full range of Equipment where brochure and video downloads are available.

For more information on our full range of products please contact us on the contact details below.

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