

Suspension Magnet

Product Description

Power Magnetronics make suspension magnet removes undesirable ferromagnetic (Fe) particles - such as iron and steel - from material flows containing relatively little Fe contamination. They are placed above a flat or trough-shaped conveyor belts carrying the material. This system captures ferromagnetic materials from the distance of 300mm/12 inches from feed material which is transported through the production process. The metal particles are drawn out of the raw material flow and held by the magnet. The results in a pure iron fraction suitable for immediate reuse(recycling).



The position of the suspension magnet is set at over a conveyor belt from which iron impurities are removed. Placing the suspension magnet at minimal possible distance covers the way for maximum resolution of impurities. This Suspension Magnet links up with material transportation equipments such as all types of belt conveyors, vibration conveyors and charging pipelines to form a complete set to remove the iron magnetic materials underweight of 0.1~0.5kg mixed among the non-magnetic materials to ensure normal & safe operation of the next-step equipment (such as muller, crusher, etc.). Suspension magnet is a very economical, convenient, and practical solution for purifying materials, protecting crushers, shredders, sieves and milling machines, and other downstream equipment.

Suspension magnets are used where different metals need to be separated before they are sorted. Industries with hard-working machinery find that these suspension magnet is not only removes residual ferrous material but also protects the machine and ensure the durability of its. Suspension Magnets are placed above open conveyors to capture ferrous objects and fines found in grains, feedstuffs, raw and processed products, dry chemicals, salt, ceramics, Clinkers in Cement Industry, Coal conveying in power plants and many other products.

Customized Suspension Magnet:

Power Magnetronics has developed a tailor-made design solution for Suspension Magnet, thus following details required to customize equipment to meet client's requirements respectively;

- Type and Size of material.
- Conveyor belt width.

- Burden depth.
- Speed at which the conveyor moves.
- Amount of Feed depth. (Capacity)
- Size and concentration of the contamination.

Characteristics

- Easily installed.
- No power required.
- Custom-made strength for option.
- Zero power consumption, easy to clean.
- Fully welded, water-tight enclosure.
- Corrosion-resistant SUS304 or SUS316L enclosure eliminates contamination to products.

Application

- Separation of ferrous contamination in quarries.
- Removal of ferrous materials in mining operations.
- Recover ferrous metal in waste management process.
- Magnetic extraction of ferrous particles in wood processing.