MAGWELL INDUSTRIES

Over Band Magnetic Separator

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MAGWELL over band magnetic separators are extremely powerful and long-covering magnetic fields. Regular production increases the efficient construction and operation as well as low maintenance design. These models are available in both manual and automatic (ON/OFF)

Magwell Overband Magnetic Separators are designed for providing cleaner product by separating ferrous metal from a variety of over-the-belt conveyor applications and needs to be removed for protection of subsequent processing machinery. The Over band magnetic separators uses a two pulley design. Parallel separators are mounted in line with the material flow, while transverse separators remove the ferrous materials over the side of the conveyor.

MAGWELL Consists Permanent Magnetic and Electro magnet are designed to remove both large and small size or types of tramp metal from product streams conveyed by belt. The tramp metal that is captured by the magnet can retain before cleaning is required. Usually the removal of the tramp metal can be obtained for a low cast than an electromagnet also working

WORKING OPERATION

Magwell Suspension magnet Consists of a large Size of magnet mounted iside a support frame suspended over the conveyed product stream. The receiveing belt magnet should be suspended approximately five to ten inches above the product stream for optimum tramp metal removal. The magnet should be located in an area that has easy access to allow for proper maintenance. Also the magnet should operate in an area of the belt where no integral parts of the conveyor can become magnetized, Such as idler rollers or belting support plates, as this may cause excessive wear on the conveyor system. To clean the magnet simply turn the collection pan winch to draw the pan across the magnet face. The pan retains the tramp metal as it is removed from the magnet. Once the pan is drawn entirely across the magnet face, it can be removed

PRINCIPLES OF OPERATION

Magnets always have two poles: one called north; the other called south. Two north poles always repel each other, as do two south poles. However, north and south poles always attract each other. A magnetic field is defined as a physical field established between to poles. Its intensity and direction determine the forces of attraction or repulsion existing between the two magnets. Figures 1.1 and 1.2 are typical representations of two interacting magnetic poles, and the magnetic field established between them. Magnets are found in nature in all sorts of shapes and chemical constitution. Magnets used in industry are artificially made. Magnets that sustain their magnetism for long periods of time are denominated “permanent magnets.” These are widely used in several types of magnet

Product Description

Magwell Magnets have increased their range of Suspension Magnets over the years to cater for the ever-increasing size of conveyors, deeper troughing and conveyor speeds. Magnets can offer customers two types of suspension magnet, depending on specific

applicational details. The units are available as either electro or permanent magnets.

Suspension magnets are specifically designed for the extraction of occasional tramp iron from a product stream being conveyed by a conveyor belt or vibratory feeder. The magnet is suspended above a conveyor with sling chain setting the magnet face at the correct angle for optimum extraction. An electro suspension magnet can be repositioned away from the conveyor and de-energised for cleaning. A Permanent Suspension Magnet can be suspended from a travelling trolley so that it can be moved away from the conveyor to be manually cleaned.

Permanent Suspension Magnets

Permanent Suspension Magnet units are designed to remove general tramp ferrous metals from a range of conveyed materials. For applications that may require the extraction of small ferrous contaminants such as nails and screws, the Mastermag range of permanent suspension magnets can incorporate a tri-polar magnet design with core, poles and a backbar in high permeability mild steel.

The tri-polar design ensures that magnetic flux leakage is reduced and the magnetic field is focused directly onto the centre of the conveyor belt to improve the extraction.

Installation

Typically, suspended tramp metal / iron magnets are installedover the conveyor head pulley or across the conveyor belt.To achieve the full potential of Eriez suspended tramp metal magnets, we recommend installation over the head pulley since the burden “opens up” as it’s discharged and in flight. In this position, magnetic separation of the tramp metal / iron is also assisted by the momentum of the tramp iron as the burden carrying i is moving towards the face of the magnet.

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RELATED MAGNETIC EQUIPEMNT

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