

Product Name :
Magnetic Separator**Product Code :**
ALABS-A163-006**Description :****Magnetic Separator**

Materials, that have different magnetic attractability, may be separated by passing them through a magnetic field. Most often, magnetic separation techniques are used to remove iron, steel or magnetic iron oxide from materials low in magnetic attractability. These devices operate in either a continuous or a cyclic manner. Continuous devices usually have a belt which moves over the lifting magnetic poles to carry the magnetize partials into a region of low or zero magnetic field, where they are released. The present set-up is of In-line lifting magnet type.

The set-up consists of two belts moving separately in opposite direction at slow speed. Feed through a vibrating hopper is conveyed over first belt and allowed to pass near the second belt, which is under magnetic field. The magnetic field is generated by permanent magnet kept in a box. Magnetically inert material drops off the belt in a normal manner. Magnetic material is held on the belt, however, and finally drops off the belt as it leaves the magnetic field. Both the belts are fitted on the pullies and driven by an electric motor coupled with a reduction

gearbox.

Experimentation:

- To study the Principles and operation of a Magnetic Separator.
- To determine the efficiency of Magnetic Separator.

Utilities Required :

- Raw Material for Feed.
- Electric Supply : Single phase, 220 V AC, 1 kW.
- Floor Area 1.5 m x 1 m.
- Weighing Balance

Technical Details :

Width 150mm, Length 500mm

Material Stainless Steel, Suitable capacity (Continuously Vibrating)

Drive 1HP motor with Reduction Gear Box.

Magnets Permanent Magnets kept in a Stainless Steel chamber.

Collection Bin Catch for Magnetic and Non-Magnetic material.

Control panel Comprises of:

Standard make On/Off switch, Mains Indicator etc.

Instruction Manual Instruction manual will be provided along with the Apparatus

The set-up is fitted with required guards and product collection tray.

The whole set-up is well designed and arranged in a good quality painted structure.



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