**Model KID-B CROSS BELT TYPE MAGNETIC SEPARATOR**

![KID-B CROSS BELT TYPE MAGNETIC SEPARATOR](image)

**Application**

Suitable for separating weak magnetic substances from powder and bulk materials such as glass raw materials, casting sand and ceramic raw materials at a high collection rate. This model works well with dry materials of grain size 3 mm or less and the optimum grain size is about 20 mesh.

**Features**

- High magnetic force and sharp gradient for effective separation of weak magnetic substances from bulk materials.
- The conveyor belt speed can be varied steplessly for efficient separation at an optimum speed.
- The use of a magnetic pole mechanism placed above the conveyor attracts/ separates magnetic substances in raw materials, and discharges them ensures a high collection rate. In particular, high-grade collection of useful magnetic substance is possible.
- By increasing the number of magnetic poles on the conveyor belt to make a multi-stage construction, separation can be carried out according to the magnetic property of magnetic substances.
- Easily installable in the existing lines.

**Examples of separation**

- Removal of iron oxide from lime stone (desiccating agent)
  - Removal rate 99.5%
- Collection of biotite (weak magnetic substance) from feldspar
  - Collection rate 95% or over

**Examples of fabrication of various recycle magnetic separators**

- An example of fabrication of drum magnetic separator
- An example of fabrication of suspended permanent magnetic separator
- An example of fabrication of large electromagnetic drum
- An example of fabrication of high-magnetic force drum magnetic separator
- An example of fabrication of 2-stage drum magnetic separator
- A non-ferrous metal separator

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**Additional Notes:**

- The magnetic separators are designed for efficient separation of various materials, offering high collection rates and flexibility in conveyor speed.
- The design accommodates a wide range of materials, ensuring effective separation at high collection rates.
- Installation is streamlined to fit into existing processes with minimal disruption.

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**Magnetic Separators**

Magnetic separators are essential in industries requiring separation of magnetic materials from non-magnetic ones. They are used in various applications, such as iron ore processing, recycling, and environmental protection, making them pivotal in extracting valuable materials efficiently.