

MAGNETIC SEPARATORS

Model BMR Model MES-J NONFERROUS METAL SEPARATORS

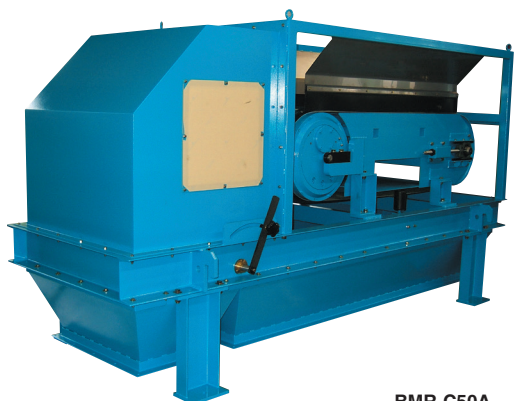
Limited natural resources to the future... Supporting recycling operations.

Environmentally friendly

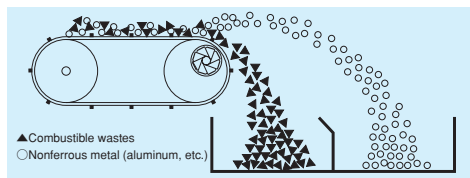
Removing iron in wood-processing plants for biomass power generation also!



The eccentric magnet structure and consistent high-speed rotation separates and collects copper and brass as well as aluminum efficiently!



BMR-C50A



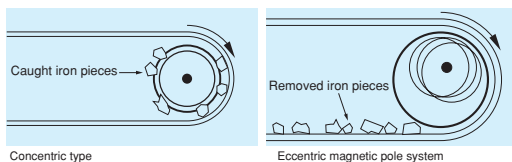
■ Eccentric magnetic pole system that has a high separating capacity and prevents crushed pieces from getting caught

Separation of nonferrous metals is achieved when a high velocity AC frequency of the magnetic field produces a strong "eddy current" in nonferrous metals, which in turn produces a magnetic field having repulsive action against the external magnetic field. This system employs an eccentric pole system to completely separate nonferrous metals from other materials. This system can prevent finely shredded or crushed nonferrous metal pieces from getting caught by the belt or drum shell and if they get caught in a gap between the belt and the shell, they are forced to move to a place where no magnetic field exists and thus can be removed easily. (See the figures on the left side.)

There is no fear of trouble from the system point of view. No cases of failures have been reported when the system has been used for car shredding, which is considered to be one of the severest conditions of use.

■ All models employ the IE3 motors!

The top runner motors in compliance with the Energy Conversation Act in Japan are used.



OD $\phi 352$ mm type introduced for possible replacement of the rotating unit in existing machines!

[Features]

- Highly efficient separation and collection!
The consistent high-speed rotation of 2500 rpm and the surface magnetic flux density over 350 mT max. ensures collection of nonferrous metals such as copper and brass as well as aluminum.
- Eccentric magnetic structure employed!
This structure prevents iron pieces and other foreign matter from getting caught, which helps prolong the service life of the drum shells and belts.
- Maintainability improved!
KANETEC's original construction has improved the maintainability around the bearing. The maintenance time such as periodic inspection can be shortened and the line stop time can be reduced.

Maintainability can be improved further by using the "automatic greasing unit" (optional) together.



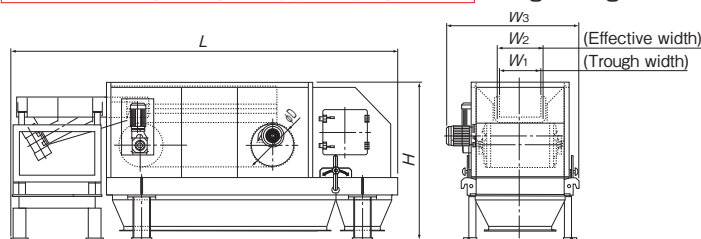
Automatic greasing unit

[Application]

Suitable for separation of nonferrous metals from small pieces shredded by car shredders, electronic equipment wastes, waste slugs, waste glass (cullet), batteries, etc.

<Other applications>

- Molding sand for aluminum casting and nonferrous metal casting.
 - Refrigerators, washing machines and other scrapped appliances.
 - Screening of aluminum from bulky refuses and recyclable wastes.
 - Separation of aluminum from plastics such as plastic bottles and screw tops.
 - Screening of aluminum from sludge discharged from fluidized beds.
- ※ This system is installed not only in wastes processing plants, materials feeders and materials discharge machines with adjust splitter, but also as part of plants such as nonferrous metal separators.



<External view of BMR-C with casing>



BMR-C50-S Special specification

MAGNETIC SEPARATORS
 CONVEYING OPERATION
 LIFTING MAGNET
 MAGBORE*
 OHP & SLUDGE CONVEYANCE EQUIPMENT
 ENVIRONMENTAL EQUIPMENT
 MAGNETIZER AND DEMAGNETIZER
 FOR CONVEYANCE EQUIPMENT
 MAGNETIC SEPARATORS
 POWERFUL MAGNETIC SEPARATORS
 MEASURING INSTRUMENTS
 MAGNETIC MATERIALS