

MAGNETIC SEPARATORS

Model **BMR**

Model **MES-J**

NONFERROUS METAL SEPARATORS

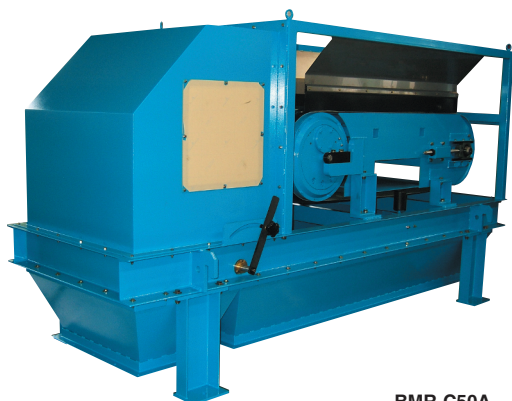
Limited natural resources to the future... Supporting recycling operations.

Environmentally friendly

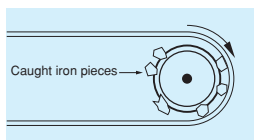
Removing iron in wood-processing plants for biomass power generation also!



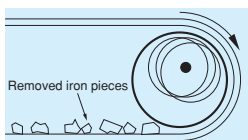
The eccentric magnet structure and consistent high-speed rotation separates and collects copper and brass as well as aluminum efficiently!



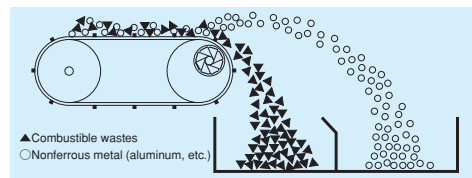
BMR-C50A



Concentric type



Eccentric magnetic pole system



▲ Combustible wastes
○ Nonferrous metal (aluminum, etc.)

■ 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 Conservation Act in Japan are used.

OD $\phi 350$ mm type introduced for possible replacement of the rotating unit in existing machines!

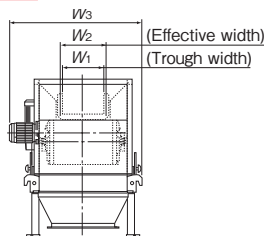
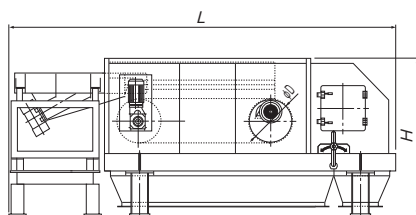
[Features]

- Highly efficient separation and collection!
The consistent high-speed rotation of 2500 rpm and the surface magnetic flux density over 380 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



<External view of BMR-C with casing>

[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.



BMR-C50-S Special specification

BMR with casing

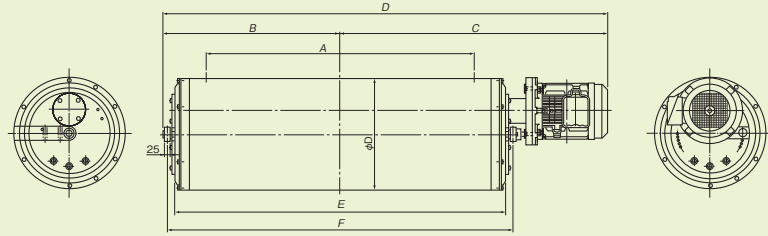
[mm (in)]

Model	Dimensions						Rotation Motor	Conveyor Motor	Feeder Motor	Mass
	W ₁	W ₂	W ₃	L	H	φD				
BMR-C350A	450(17.7)	500(19.6)	1420(55.9)	4120(162)	1400(55.1)	φ350(13.7)	2.2kW	1.5kW	0.5kW×2	2000kg/4409 lb
BMR-C375A	700(27.5)	750(29.5)	1670(65.7)	4270(168)						2350kg/5180 lb
BMR-C3100A	950(37.4)	1000(39.4)	1920(75.5)	4440(174)						2850kg/6283 lb
BMR-C50A	450(17.7)	500(19.6)	1485(58.4)	4375(172)	1760(69.2)	φ494(19.4)	3.7kW	2.2kW		2400kg/5292 lb
BMR-C75A	700(27.5)	750(29.5)	1735(68.3)	4525(178)						2800kg/6174 lb
BMR-C100A	950(37.4)	1000(39.4)	1000(39.4)	5445(214)						3400kg/7497 lb
BMR-C125A	1200(47.2)	1250(49.2)	1250(49.2)	5410(212)			5.5kW	1.96kW×2	4100kg/9040 lb	
BMR-C150A	1450(57.0)	1500(59.0)	1500(59.0)	5435(213)					4300kg/9481 lb	

**Magnetic rotating units are available individually!
Magnets in existing lines may be replaced for upgrading!**



BMR-5050A



<BMR rotating unit>

BMR rotating unit only

[mm (in)]

Model	Drive Motor	Dimensions						φD	Mass	Standard Accessory
		A	B	C	D	E	F			
BMR-3550A	2.2kW	500 (19.6)	482 (18.9)	805 (31.6)	1287 (50.6)	770 (30.3)	842 (33.1)	φ350 (13.7)	Approx. 220kg/ 485 lb	<ul style="list-style-type: none"> •Motor •Coupling •Mounting bracket
BMR-3575A		750 (29.5)	607 (23.8)	930 (36.6)	1537 (60.5)	1020 (40.1)	1092 (42.9)		Approx. 260kg/ 573 lb	
BMR-35100A		1000 (39.4)	732 (28.8)	1055 (41.5)	1787 (70.3)	1270 (50.0)	1342 (52.8)		Approx. 300kg/ 661 lb	
BMR-5050A	3.7kW	500 (19.6)	453 (17.8)	823 (32.4)	1276 (50.2)	795 (31.2)	867 (34.1)	φ494 (19.4)	Approx. 500kg/1102 lb	
BMR-5075A		750 (29.5)	578 (22.7)	974 (38.3)	1552 (61.1)	1045 (41.1)	1117 (43.9)		Approx. 650kg/1433 lb	
BMR-50100A		1000 (39.4)	703 (27.6)	1099 (43.2)	1802 (70.9)	1295 (50.9)	1367 (53.8)		Approx. 800kg/1763 lb	
BMR-50125A	5.5kW	1250 (49.2)	828 (32.5)	1253 (49.3)	2081 (81.9)	1545 (60.8)	1617 (63.6)		Approx. 970kg/2138 lb	
BMR-50150A		1500 (59.0)	953 (37.5)	1374 (54.0)	2326 (91.5)	1795 (70.6)	1867 (73.5)		Approx. 1120kg/2469 lb	

A type (concentric type) dedicated to collection of aluminum cans available also!

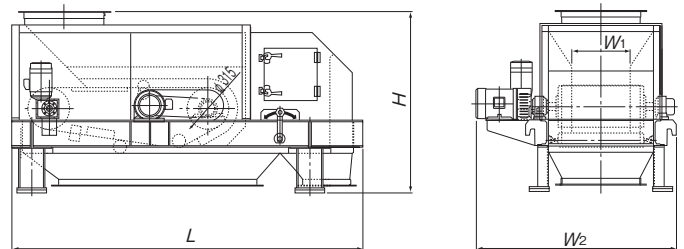


Most suitable for collect cylindrical cans.

MES-J



MES-J345-S Special specification



<External view of aluminum separator>

Types dedicated to collection of aluminum cans

[mm (in)]

Model	Dimensions				Rotation Motor	Conveyor Motor	Mass
	W ₁	W ₂	L	H			
MES-J345A	450 (17.7)	1510 (59.4)	2650 (104)	1375 (54.1)	3.7kW	1.5kW	1300kg/2866 lb
MES-J360A	600 (23.6)	1660 (65.3)					1450kg/3197 lb
MES-J390A	900 (35.4)	2010 (79.1)			5.5kW	2.2kW	1700kg/3748 lb