Type	Product Name	Model	Features
Eccentric pole type	Nonferrous separator	NFS	Assists recycling by separating and collecting shredded dust.
Aluminum separation	Conveyor type aluminum separator	MES	Assists recycling by separating crushed wastes and hand-sorted wastes.
	Cusponded plate magnet	KPMD	Larger attractive force than KPMF.
	Suspended plate magnet	KPMJ	Powerful type having larger attractive force than KPMD.
Suspension	Round electromagnet for iron removal	HEM-C	Natural air cooling and enclosed type for less mixture of iron pieces.
Suspension	Suspended electromagnet for iron removal	HEM-BC	Oil cooling type for less mixture of iron pieces.
	Suspended electromagnetic separator	BST	Natural discharge type and continuous operation.
	Suspended permanent magnetic separator	SPM	Energy saving and auto discharge type for shallow conveyors.
Plate	Diete magnet	KPMF	Chute-mounted type with stainless steel surface.
Plate	Plate magnet	KPMT	Chute-mounted type. Attracted iron pieces held firmly.
Tubular	Tubular separator	СРМ	Removal of iron pieces during transfer of bulk materials in a pipe.
Consoll	Magnetic bar	KGM (Round, rectangular)	Capable of being incorporated in any place.
Small	Grid type magnet	KGM/KGM-C	For collection of small iron pieces mixed in small amount. Installed at hopper outlet port or in duct.
Pulley	Electromagnetic pulley	KER	Usable as a conveyor head pulley and high iron removal rate.
Pulley	Permanent magnetic pulley	KPR	Usable as a conveyor head pulley. For a large diameter, the electromagnetic type is recommended.
	Barrel separator	KBS	For barrel polishing.
Drum	Drum separator	KDS	Casing provided for easy installation.
Drum	Large permanent magnetic drum	KPDL	Works well for large iron pieces and a large amount of iron pieces to collect.
	Permanent magnetic drum	KPD	Most suitable for removing iron from bulk materials and can be incorporated in equipment.
Comb	Comb type magnet	KCM	For removal of iron from bulk materials.
	Induction type high magnetic force separator	KID-R	For removal of weak magnetic bulk materials. 2.6 T (26 kg) max.
High magnetic	Cross belt type high magnetic force separator	KID-B	Small capacity and less mixture of raw materials in removed iron.
force electromagnetic	Induction type separator	KID	Effective for removing iron from casting sand.
olosii olii agiloii o	Electromagnetic filter	KIF	Effective for removing iron from fine materials (powder).
High speed drum	High speed drum separator	KHDS	For high grade sorting and collection of magnetic substances.

Examples of application of magnetic separators in various fields

Removal of iron and collection of iron powder from various kinds of raw materials and semi-finished products are called magnetic separation. Kanetec offers a wide variety of magnetic separators for use with lump materials, bulk materials, clay-like materials and liquids.

Examples of usage in various fields

Steel making and mining	Separation of steel materials and collection of iron in residues.				
Machine, press, plant	Treatment of scraps and collection of flux.				
Food, candy, can making	Removal of iron from raw materials and foreign matter in manufacturing processes.				
Pulp, paper, stone crushing	Removal of iron from raw materials and protection of crushers.				
Chemicals	Removal of iron from raw materials and waste fluid.				
Casting and nonferrous	Removal of iron from casting sand and chips.				
Sand and cement	Removal of iron from raw materials and				
Feed and fertilizer	mixed machined parts.				
Textile and fabric	mixeu macilineu parts.				
Sugar, salt and tobacco	Removal of iron from raw materials.				

Selection of magnetic separators and notes for inquiry

A magnetic separator to select must be suitable for the purpose of use and have a sufficient capacity. To select such a most suitable separator, when inquiring about separators, conditions such as the purpose of use and property of materials need to be informed, as detailed below:

- Application (improving the grade, collecting useful magnetic substances, etc.)
- •Kind, composition and components of raw materials
- ●Grain size of raw materials (□□ mm □□ mm, □□ mesh □□ mesh)
- Water content, raw material temperature
- Apparent specific gravity (bulk density)
- Kind, shape and grain size of mixed magnetic substances
- Amount of raw materials to treat per hour (kg/h, m³/h)
- Amount and ratio of mixed magnetic substances
- Other special conditions



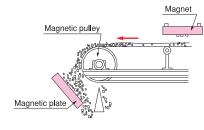
Testing of separation available

Please contact your nearest sales office. Then we will do separation tests and model selection for you.

*Please use a facsimile transmission form (Magnetic Separator Selection Data) included at the end of this general catalog.

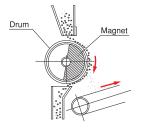
Separation on conveyor (dry)

- A magnetic pulley is used.
- A magnet is suspended over the conveyor.
- ●A plate magnet is installed on the discharge side of a conveyor.
- ●A grid type magnet is installed on the discharge side of a conveyor.
- A comb type magnet is installed on the conveyor.



Separation by magnetic drum (dry)

- ●A magnetic drum is installed at the bottom of the hopper chute.
- A magnetic drum is installed at the exit of a vibrator feeder.
- A magnetic drum is installed on the discharge side of a
- A magnetic drum is installed at the raw material exit.



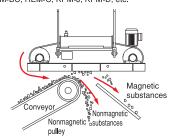
Separation by suspended separator (dry)

To automatically remove iron pieces, bolts and nuts on a conveyor, a suspended magnetic separator is installed to attract and remove iron pieces.

For fully automatic removal and discharge:

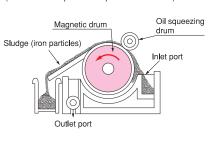
BST, SPM, etc.

For fully automatic removal and manual discharge: HEM-BC, HEM-C, KPM-J, KPM-D, etc.



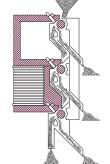
Separation in fluid (wet)

Used for a coolant separator (removal of iron particles in grinding fluid, waste oil, cooling oil), drum separator (collection of iron ores, iron sand materials) and MAGFIN (removal of iron particles deposited in oil tanks).



High magnetic force separator (dry)

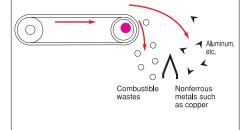
A magnetic separator generating a high magnetic force of 2.6 T (26000 G). Used for weak magnetic substances which cannot be removed sufficiently by a standard separator.



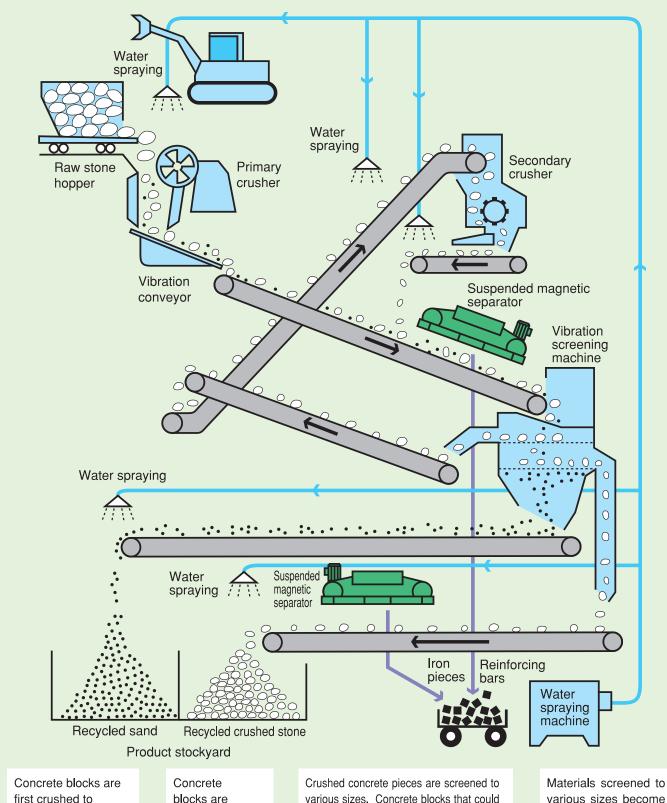
Aluminum separator

Aluminum items can be sorted and separated from noncombustible wastes and large crushed wastes efficiently.

A permanent magnet is used as a source of magnetic field for sorting, which is rotated at high speed to cause eddy current to sort materials.



Construction Scrap Materials Recycling System



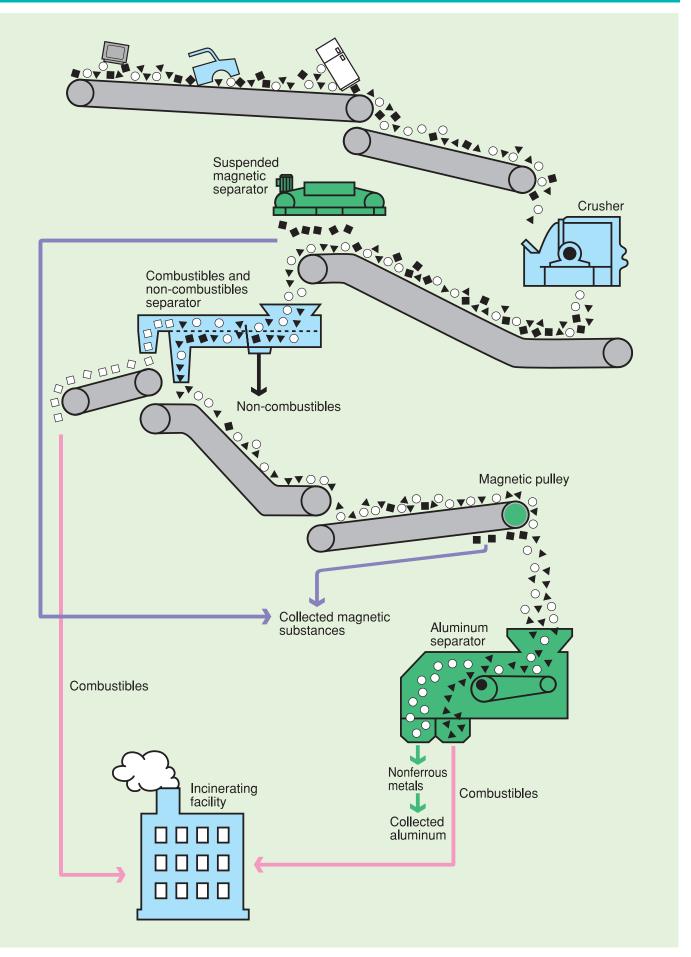
first crushed to certain sizes (50-60 square centimeters) on construction site and then transported to a recycle facility.

blocks are crushed by a crusher. Then foreign matters like iron are removed by a magnet.

various sizes. Concrete blocks that could not be crushed by the primary crusher are crushed by the secondary crusher. To prevent dust and dirt produced in these processes and to prevent noise, the machines and surrounding areas are covered and water is sprayed. Dust is collected by a dust collector.

various sizes become products as recycled crushed stone and recycled sand. These materials are used for road construction and sewage construction.

Non-Industrial Large Recyclables Processing System



MAGNETIC HOLDERS

MAGNETIC TOOLS

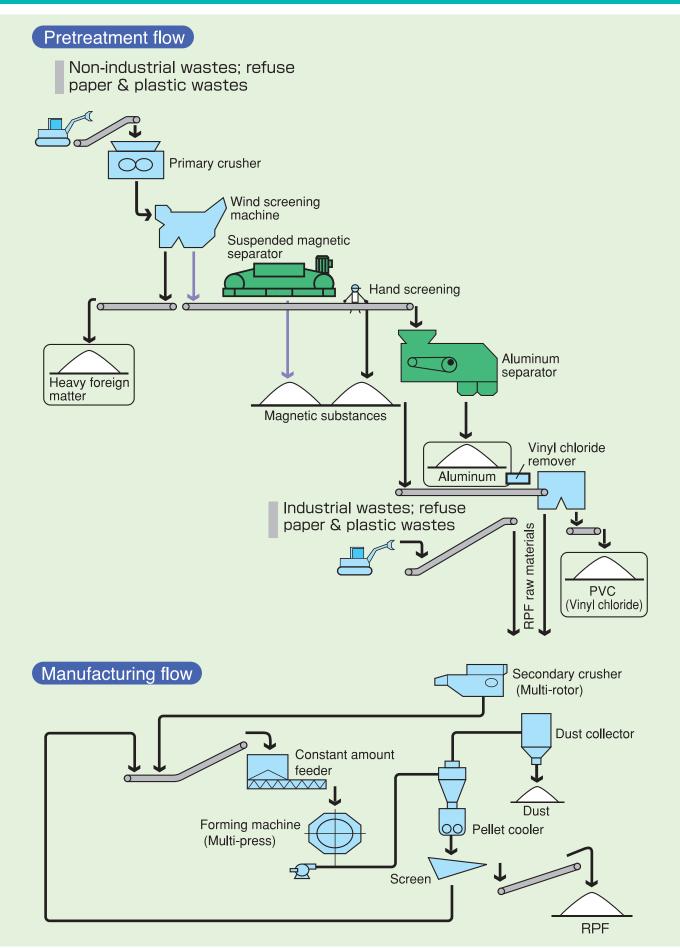
MAGNETIC TOOLS FOR WELDING OPERATION

LIFTING MAGNET MAGBORE

CHIP & SLUDGE ENVIRONMENTAL MAGNETIZERS AND MAGNETIC EQUIPMENT TRANSPORTATION TRANSPORTATION

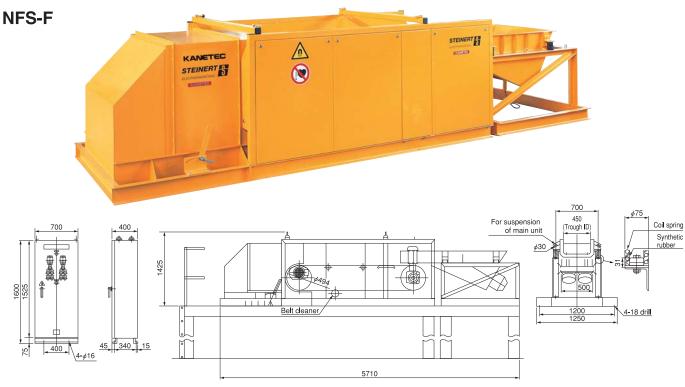
HIGH GRADE MAGNETIC MEASURING MAGNETIC SEPARATORS INSTRUMENTS MATERIALS

RPF (Refuse Paper & Plastic Fuel) Manufacturing Flow



Model NFS-F / MES-W NONFERROUS METAL SEPARATORS

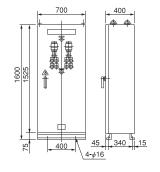
Original eccentric magnetic pole system developed by technical tie-up with Steinert! (Patent No. 2137154)

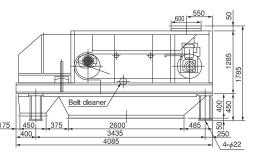


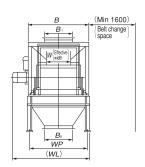
(External view of nonferrous metal separator)

MES-W









(External view of aluminum separator)

MAGNETIC EQUIPMENT : N FOR TRANSPORTATION : C

HIGH GRADE MAGNETIC SEPARATORS

MEASURING INSTRUMENTS

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 generates 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.

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.

This system is a new model developed by technical tie-up with Steinert in Germany. This system is designed to completely separate and collect finely shredded and crushed nonferrous metals, which are very difficult to handle by conventional systems.

[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, washers and other scrapped appliances
- Screening of aluminum from bulky refuses and recyclables.
- 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.

[Features]

 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 generates 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.
- 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.
- ●The angle (location) of the magnet can be adjusted finely according to materials to process.

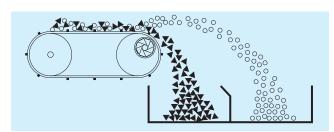
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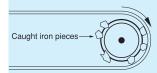
Mod	el	Effective	Power	Power Capacity	
Automobiles, bulky crushed wastes	Recyclables	Width	Source		
NFS-F50	MES-W550	500 (19.6)			
NFS-F75	MES-W575	750 (29.5)	Single-phase	8kVA	
NFS-F100	MES-W5100	1000 (39.3)	200 VAC		
-	MES-W5125	1250 (49.2)	50/60Hz	10kVA	
NFS-F150	MES-W5150	1500 (59.0)		TUKVA	

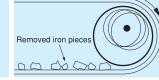












Concentric type

Eccentric magnetic pole system

Automobiles & hulky crushed wester

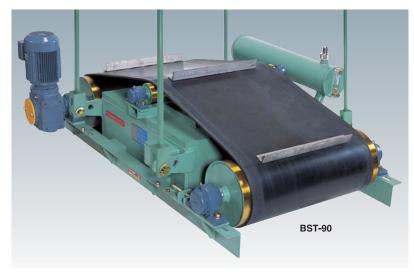
Automobil	Automobiles & bulky crushed wastes [mm(in)]											
Model	W	WL	WP	В	Rotation Motor	Conveyor Motor	Mass					
NFS-F50	490 (19.2)	1560 (61.4)	1220 (48.0)	1250 (49.2)			Approx. 1685kg/3715 lb					
NFS-F75	740 (29.1)	1694 (66.7)	1350 (53.1)	1380 (54.3)	3.7kW	2.2kW	Approx. 2000kg/4409 lb					
NFS-F100	990 (38.9)	1944 (76.5)	1600 (62.9)	1630 (64.2)		2.2KVV	Approx. 2200kg/4850 lb					
NFS-F150	1490 (58.6)	2510 (98.8)	2100 (82.7)	2130 (83.9)	5.5kW		Approx. 2700kg/5952 lb					

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Recyclable	Recyclables [mm (in)]											
Model	W	WL	WP	В	B ₁	В∘	Rotation Motor	Conveyor Motor	Mass			
MES-W550	490 (19.2)	1640 (64.5)	1300 (51.2)	1250 (49.2)	600 (23.6)	600 (23.6)					Approx. 2000kg/4409 lb	
MES-W575	740 (29.1)	1780 (70.0)	1440 (56.7)	1390 (54.7)	850 (33.4)	850 (33.4)	3.7kW		Approx. 2100kg/4630 lb			
MES-W5100	990 (38.9)	2030 (79.9)	1690 (66.5)	1640 (64.5)	1100 (43.3)	1100 (43.3)		2.2kW	Approx. 2350kg/5181 lb			
MES-W5125	1240 (48.8)	2280 (89.7)	1840 (72.4)	1890 (74.4)	1350 (53.1)	1350 (53.1)	5.5kW		Approx. 2600kg/5732 lb			
MES-W5150	1490 (58.6)	2530 (99.6)	2190 (86.2)	2140 (84.2)	1600 (62.9)	1600 (62.9)	3.5KVV		Approx 2850kg/6283 lb			

Fully automatic discharge

"BST Series" renewed based on many years of manufacture and marketing experience and computer-aided magnetic field analysis with significantly reduced weight and volume!



Ideal magnet configuration realized!

Our achievements in magnetic design and our pursuit to develop an optimum magnet based on magnetic field analysis, has resulted in a magnet configuration that exhibits the best separation and collection performance.

To lengthen the iron piece discharge length, a general practice is to use permanent magnets together, but our original pole construction (patent pending) has eliminated the need of such magnets.

A wide variety of models available!

A wide variety of models are available according to any belt specifications of belt conveyors. Thus, you can find the optimum model for your specifications. Cross suspension as well as overhead pulley suspension (parallel suspension) is available. (The corresponding conveyor belt width is the same.)

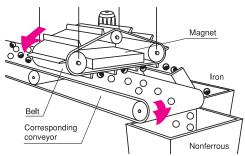
Can be installed in any environment!

Compared with Kanetec's previous model designs, the weight and volume have been reduced significantly, for example, mass reduced by 30% to 40% and cooling water amount by 10% to 50%, as a result of minimizing the overall length and magnet height.

Thus, this model can be installed in any environment and under any conditions of

Easy maintenance for significant reduction in work time and running cost!

As the iron piece discharge belt drive system is directly coupled, such maintenance as chain tension adjustment and lubrication, that need to be conducted periodically with existing products, are no longer necessary and as the amount of cooling oil has been reduced, replenishing needs to be conducted less frequently. Thus, maintenance load work has been reduced significantly.



A suspended magnetic separator is suspended above a belt conveyor to continuously separate such magnetic substances as iron pieces and lumps mixed in materials being transported on the conveyor.

This separator is best suited for removing and collecting iron from such raw materials as slug, ore and coal and from casting sand, bulky wastes, industrial wastes and ash after waste incineration.

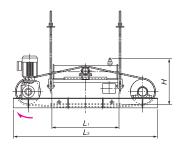
Trouble-free, robust magnetic separator!

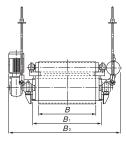
This highly rated effective oil cooling system can be used continuously, day and night. Minimizing the temperature rise of the electromagnet maintains the effective separation performance. Also, our original pole construction is designed to reduce belt wear and ensures a long service life.

A wide range of applications!

The robust construction allows this separator to be used outdoors under any conditions of use. It can be used in a wide range of applications.

*We can configure a suitable magnetic separator for various kinds of substances. Please consult with us.





[mm (in)]

	0	Corresponding	Belt Width	Overall Dimensions		ons	Electromagne	et Dimensions	Power Consum	ption		Applicable
Model	Corresponding Conveyor Width	Conveyor Installation Distance	В	L ₂	Bz	Н	L ₁	B ₁	Electromagnet*	Drive motor	Mass	Power Source
BST-65	450 (17.7)	150 (5.90) —200 (7.87)	450 (17.7)	1640 (64.5)	1150 (45.2)	610 (24.0)	650 (25.5)	650 (25.5)	1.5kW	1.5kW	680kg/ 1499 lb	BSTR-65I
BST-80	600 (23.6)	150 (5.90) —250 (9.84)	600 (23.6)	1790 (70.4)	1305 (51.3)	585 (23.0)	800 (31.5)	800 (31.5)	2.4kW	1.5600	970kg/ 2138 lb	BSTR-80I
BST-90	750 (29.5)	200 (7.87) —300 (11.8)	750 (29.5)	1900 (74.8)	1500 (59.0)	660 (25.9)	900 (35.4)	900 (35.4)	3.1kW		1370kg/ 3020 lb	BSTR-90I
BST-100	900 (35.4)	250 (9.84) —350 (13.7)	900 (35.4)	2250 (88.5)	1720 (67.7)	825 (32.4)	1000 (39.3)	1000 (39.3)	4.0kW	2.2kW	2070kg/ 4564 lb	BSTR-100I
BST-115	1050 (41.3)	300 (11.8) —350 (13.7)	1050 (41.3)	2400 (94.4)	1865 (73.4)	820 (32.2)	1150 (45.2)	1150 (45.2)	5.2kW		3100kg/ 6834 lb	BSTR-115I
BST-130	1200 (47.2)	300 (11.8) —400 (15.7)	1200 (47.2)	2800 (110.2)	2115 (83.2)	910 (35.8)	1300 (51.1)	1300 (51.1)	6.6kW	3.7kW	4500kg/ 9921 lb	BSTR-130I
BST-150	1400 (55.1)	300 (11.8) —450 (17.7)	1400 (55.1)	3000 (118.1)	2315 (91.1)	805 (31.6)	1500 (59.0)	1500 (59.0)	8.7kW	J./KW	5500kg/12125 lb	BSTR-150I
BST-170	1600 (62.9)	400 (15.7) —550 (21.6)	1600 (62.9)	3200 (126.0)	2570 (101.2)	865 (34.0)	1700 (66.9)	1700 (66.9)	10.4kW	5.5kW	7500kg/16535 lb	BSTR-170I

^{**}A type that uses permanent magnets together is also available.
**A type with dustproof cover is also available.

**The electromagnet power consumption applies to the use of 200 VAC (50 Hz).
**For use in combination with a vibrator like vibration conveyor, a special type of vibration-proof specification needs to be used.

^{*}For overhead pulley suspension (parallel suspension), suspension fixtures need to be changed partially.

Exchanging of electromagnet cooling oil

Models and required amount of oil

Model	Amount (L)	Model	Amount (L)
BST- 65	80	BST- 115	265
BST- 80	100	BST- 130	415
BST- 90	120	BST- 150	450
BST-100	235	BST- 170	570

*Exchange oil once every five years. (It varies slightly depending on models and run hours.)
As for special models, the amount depends on sizes of

electromagnets. (Increased)

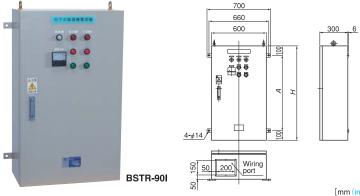
Types of cooling oil (JIS C2320 Electrical Insulating Oils Type 1, No. 2, No. 4) *The values are JIS Standard values

Property Manufacturer (Brand)	Total Acid Number (mgKOH/g)	Flashing Point (PM)°C	Specific Gravity 15/4°C	Breakdown Voltage (KV)
Idemitsu Kosan (Transformer Oil G)				
Showa Shell Sekiyu (High Voltage Insulating Oil)				
Nippon Oil (Nippon Oil High Voltage Insulating Oil A)	0.02 max.	130 min.	0.91 max.	30 min.
Exxon Mobile (Insulating Oil No. 2)				
JOMO (JOMO HS Trans N)				

Model BSTR CONTROL UNIT

Indoor type

New design slims the unit in size and volume by one third! Space saving and mountable!



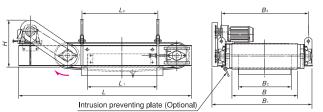
				Dimer	nsions		Mass	
Model	Power Source	Electromagnet Output	Drive Motor Output	Н	Α	Construction		
BSTR-65I		90 VDC 1.5kW	200 VAC 1.5kW			Indoor, dustproof, wall mounting type		
BSTR-80I		90 VDC 2.4kW	200 VAC 1.5KW	1000 (39.3)	800 (31.5)		Approx. 70kg/154 lb	
BSTR-90I		90 VDC 3.1kW						
BSTR-100I	200 VAC 50/60Hz	180 VDC 4.0kW	200 VAC 2.2kW					
BSTR-115I	3φ	180 VDC 5.2kW						
BSTR-130I	•	270 VDC 6.6kW	200 VAC 3.7kW					
BSTR-150I		270 VDC 8.7kW	200 VAC 3./KW					
BSTR-170I		180 VDC 10.4kW	200 VAC 5.5kW	1200 (47.2)	1000 (39.3)		Approx. 90kg/198 lb	

*The outdoor type has partially different specifications.

Model SPM SUSPENDED PERMANENT MAGNETIC SEPARATOR

Fully automatic discharge type





The suspended permanent magnetic separator employs a fully automatic discharge system by using a powerful permanent magnet. The operating method is similar to that of the suspended electromagnetic separator. This model is suitable for removing iron from relatively thin layer of materials on a belt conveyor.

[Application]

Suitable for removing iron from raw materials used in the food industry, chemical industry and various other industries, and can also be installed in wastes sorting systems to remove iron.

[Features]

- Permanent magnet type, no DC power source is needed.
- Simple but robust construction for easy maintenance.
- The weather resistant construction allows this separator to be easily installed on existing outdoor conveyors.
- ●The permanent magnet system requires minimal maintenance cost.
- An extra powerful type is also available.
- ●An overhead pulley suspension (parallel suspension) type is also available.

The figure shows a separator with optional intrusion preventing plate.

Model	Corresponding Conveyor Belt Width		Corresponding Conveyor	Belt Width Overall Dimensions		ons	Magnet Di	mensions	Power Consumption	Mass	
	Cross suspension	Parallel suspension (*)	Installation Distance	В	L	B ₁	Н	L ₁	B2	Drive motor	
SPM-30D	350 (13.7)	_	90 (3.54) —130 (5.11)	300 (11.8)	1274 (50.1)	640 (25.2)	510 (20.0)	400 (15.7)	250 (9.84)	0.4 kW -	190kg/ 418 lb
SPM-40D	450 (17.7)	350 (13.7)	100 (3.93) —150 (5.90)	400 (15.7)	1374 (54.1)	740 (29.1)	310 (20.0)	500 (19.6)	350 (13.7)		290kg/ 639 lb
SPM-60E	600 (23.6)	450 (17.7)	150 (5.90) —200 (7.87)	600 (23.6)	1612 (63.4)	910 (35.8)	435 (17.1)	650 (25.5)	490 (19.2)	0.75kW	400kg/ 881 lb
SPM-80E	750 (29.5)	600 (23.6)		700 (27.5)	1812 (71.3)	1010 (39.7)	435 (17.1)	800 (31.5)	650 (25.5)		650kg/1433 lb
SPM-100E	900 (35.4)	750 (29.5)	200 (7.87) —250 (9.84)	900 (35.4)	2000 (78.7)	1430 (56.3)	525 (20.6)	1000 (39.3)	800 (31.5)		1200kg/2646 lb
SPM-120E	1200 (47.2)	900 (35.4)		1050 (41.3)	2300 (90.5)	1609 (63.3)	566 (22.2)	1300 (51.1)	950 (37.4)	1.5 kW	1700kg/3748 lb

^{**}Cooling oil used by Kanetec (Idemitsu Kosan Transformer Oil G)
**A type, using a cooling oil having a high flashing point, may also be available.

LIFTING MAGNET

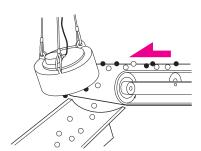
Model HEM-C CIRCULAR ELECTROMAGNET FOR IRON REMOVAL

Air cooling type



Lifting hinge





[Application]

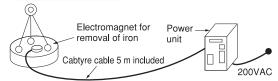
The standard suspended electromagnet designed for removing iron from above conveyors. This model is suitable for removing iron from ores and various materials (glass, ceramics, sugar, paper, chemicals, etc.) as well as from crushed stone in crushing plants and from casting sand in casting plants.

- Light weight and compact for easy handling.
- Minimum maintenance and weather resistant.









[mm (in)]

Model Conveyo		Conveyor Installation	Dimen	sions	Mass	Power	Applicable
Model	Belt Width	Distance	φD	Н	iviass	Consumption	Rectifier
HEM-40C	350 (13.7)	120 (4.72) —150 (5.90)	400 (15.7)	240 (9.44)	170kg/ 375 lb	0.51kW	KR-A208
HEM-50C	400 (15.7)	130 (5.11) —180 (7.08)	500 (19.6)	300 (11.8)	310kg/ 683 lb	0.82kW	KR-A208
HEM-60C	500 (19.6)	150 (5.90) —200 (7.87)	620 (24.4)	305 (12.0)	350kg/ 771 lb	1.2 kW	HEMR-60CI
HEM-70C	600 (23.6)	150 (5.90) —250 (9.84)	720 (28.4)	345 (13.5)	480kg/1058 lb	1.7 kW	HEMR-70CI
HEM-90C	750 (29.5)	200 (7.87) —300 (11.8)	920 (36.2)	398 (15.6)	850kg/1874 lb	3.2 kW	HEMR-90CI
HEM-110C	900 (35.4)	250 (9.84) —350 (13.7)	1120 (44.0)	421 (16.5)	1350kg/2976 lb	5.0 kW	HEMR-110CI
HEM-130C	1050 (41.3)	300 (11.8) —450 (17.7)	1320 (51.9)	490 (19.2)	2200kg/4850 lb	7.4 kW	HEMR-130CI
HEM-150C	1200 (47.2)	400 (15.7) —550 (21.6)	1520 (59.8)	563 (22.1)	3400kg/7496 lb	9.2 kW	HEMR-150CI

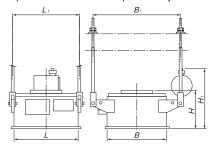
Model HEM-BC SUSPENDED ELECTROMAGNET FOR IRON REMOVAL

For large conveyor = Oil cooling



[Application]

This model utilizes the electromagnet design taken from the suspended electromagnetic separator and is recommended for use where there is a relatively small amount of mixed iron pieces on the conveyor. This model is for use on large conveyors as with Model BST, but is most suitable for operations where the amount of mixed iron pieces is small and attracted iron pieces can be removed periodically.



[Features]

- There are no moving parts and the construction is simple for troublefree operation.
- The oil cooling system can keep temperature rise below a certain level, when in a continuous use operation. (For cooling oil used, see page 126.)
- ●The separating capacity is about the same as Model BST.
- Compared with Model HEM-C, heat generation can be reduced and a drop in performance can be avoided.
- The effective magnetic field is generated over the full width for higher separating efficiency.

[mm (in)]

Model	Conveyor	Conveyor Installation			Dimer	nsions			Power	Mass	Applicable
Wiodel	Belt Width	Distance	L	В	Н	H ₁	L ₁	B ₁	Consumption	IVIASS	Rectifier
HEM-60BC	500 (19.6)	150 (5.90) —200 (7.87)	648 (25.5)	556 (21.8)	395 (15.5)	680 (26.7)	670 (26.3)	860 (33.8)	1.2kW	550kg/ 1213 lb	HEMR-6BB
HEM-80BC	600 (23.6)	150 (5.90) —250 (9.84)	798 (31.4)	692 (27.2)	464 (18.2)	790 (31.1)	820 (32.2)	1030 (40.5)	2.0kW	950kg/ 2094 lb	HEMR-8BB
HEM-100BC	750 (29.5)	200 (7.87) —300 (11.8)	940 (37.0)	840 (33.1)	541 (21.3)	860 (33.8)	975 (38.3)	1230 (48.4)	3.0kW	1600kg/ 3527 lb	HEMR-10BB
HEM-120BC	900 (35.4)	250 (9.84) —350 (13.7)	1140 (44.8)	986 (38.8)	611 (24.0)	976 (38.4)	1180 (46.4)	1400 (55.1)	4.5kW	2550kg/ 5622 lb	HEMR-12BB
HEM-140BC	1050 (41.3)	300 (11.8) —400 (15.7)	1340 (52.7)	1128 (44.4)	673 (26.5)	1030 (40.5)	1367 (53.8)	1600 (62.9)	5.5kW	3800kg/ 8378 lb	HEMR-14BB
HEM-160BC	1400 (55.1)	300 (11.8) —450 (17.7)	1590 (62.6)	1332 (52.4)	763 (30.0)	1120 (44.0)	1620 (63.7)	1800 (70.8)	7.5kW	5750kg/12680 lb	HEMR-16BB
HEM-190BC	1600 (62.9)	400 (15.7) —550 (21.6)	1850 (72.8)	1492 (58.7)	935 (36.8)	1300 (51.1)	1880 (74.0)	2000 (78.7)	10.0kW	9300kg/20500 lb	HEMR-19BB

Model KPD PERMANENT MAGNETIC DRUM

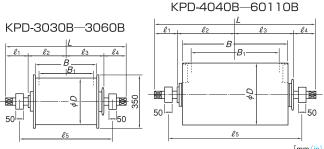


[Application]

Suitable for sorting wastes and removing iron from bulk materials used in mining, ceramic, chemical and food industries.

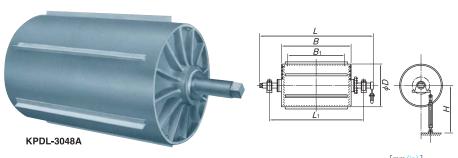
[Features]

- •A powerful permanent magnet is used and thus no power source is required.
- ●The outside nonmagnetic drum is rotated to automatically discharge iron.
- The drum shell is made of nonmagnetic stainless steel.
- ●KPD-HA 180 mT (1800 G), HB 250 mT (2500 G), HC 300 mT (3000 G) and HE 500 mT (5000 G) Series are also available.
- In addition to the permanent magnet type, an electromagnet type (KED) is also available.



															[mm (in)]
Model	Flow Capacity					Dimensio	ns					Magnetic Flux	Revolution	Motor	Mass
Wodel	1 low dapadity	D	B₁	В	l 2	l 3	L	l 5	l 4	l 1	φd	Density	ricvolation	WOO	Widos
KPD- 3030B	25m³/h		268 (10.5)	300 (11.8)	200 (7.87)	225 (8.85)	690 (27.1)	580 (22.8)							60kg/ 132 lb
KPD- 3040B	35m ³ /h	300	368 (14.4)	400 (15.7)	250 (9.84)	275 (10.8)	790 (31.1)	680 (26.7)	120	145	45		30—45rpm		80kg/ 176 lb
KPD- 3050B	45m³/h	(11.8)	468 (18.4)	500 (19.6)	300 (11.8)	325 (12.8)	890 (35.0)	780 (30.7)	(4.72)	(5.70)	(1.77)		30—43IPIII		100kg/ 220 lb
KPD- 3060B	55m³/h		568 (22.3)	600 (23.6)	350 (13.7)	375 (14.7)	990 (38.9)	880 (34.6)							120kg/ 264 lb
KPD- 4040B	45m ³ /h		330 (12.9)	430 (16.9)	260 (10.2)	292 (11.5)	830 (32.6)	710 (27.9)						0.4kW	120kg/ 264 lb
KPD- 4050B	60m ³ /h	400	430 (16.9)	530 (20.8)	310 (12.2)	342 (13.4)	930 (36.6)	810 (31.8)			55		25—40rpm	U.4KVV	150kg/ 330 lb
KPD- 4065B	75m³/h	(15.7)	580 (22.8)	680 (26.7)	385 (15.2)	417 (16.4)	1080 (42.5)	960 (37.8)			(2.16)		25—401piii		200kg/ 440 lb
KPD- 4080B	90m³/h		730 (28.7)	830 (32.6)	460 (18.1)	492 (19.3)	1230 (48.4)	1110 (43.7)]			100mT			250kg/ 551 lb
KPD- 5050B	80m ³ /h		430 (16.9)	530 (20.8)	310 (12.2)	342 (13.4)	930 (36.6)	810 (31.8)]			(1000G)			215kg/ 474 lb
KPD- 5065B	105m ³ /h	500	580 (22.8)	680 (26.7)	385 (15.2)	417 (16.4)	1080 (42.5)	960 (37.8)	123	155	60		20—35rpm		280kg/ 617 lb
KPD- 5080B	125m³/h	(19.6)	730 (28.7)	830 (32.6)	460 (18.1)	492 (19.3)	1230 (48.4)	1110 (43.7)	(4.84)	(6.10)	(2.36)		20—331piii		345kg/ 760 lb
KPD- 5095B	150m₃/h		880 (34.6)	980 (38.5)	535 (21.0)	567 (22.3)	1380 (54.3)	1260 (49.6)]						410kg/ 903 lb
KPD- 6065B	130/18/11		580 (22.8)	680 (26.7)	385 (15.2)	417 (16.4)	1080 (42.5)	950 (37.4)						0.75kW	335kg/ 738 lb
KPD- 6080B	190m³/h	600	730 (28.7)	830 (32.6)	460 (18.1)	492 (19.3)	1230 (48.4)	1100 (43.3)			65		15 20rnm		410kg/ 903 lb
KPD- 6095B	220m³/h	(23.6)	880 (34.6)	980 (38.5)	535 (21.0)	567 (22.3)	1380 (54.3)	1250 (49.2)			(2.55)		15—30rpm		490kg/1080 lb
KPD-60110B	240m³/h		1030 (40.5)	1130 (44.4)	610 (24.0)	642 (25.2)	1530 (60.2)	1400 (55.1)						1.5kW	570kg/1257 lb

Model KPDL LARGE SIZE PERMANENT MAGNETIC DRUM



												L	mm (in)]
	Flow Capacity			Dir	mensio	ons			Magnetic	Revo	lution		
Model	(Magnetized substance × 75%)	B ₁	В	L 1	L	D	φd	Н	Flux Density	Over Feed	Under Feed	Motor	Mass
KPDL-3026A	12—17t/h	460 (18,1)	660 (25,9)	1140	1420 (55.9)								700kg/ 1543 lb
KPDL-3048A	20—32t/h	1020 (40.1)	1220 (48.0)	1700 (66.9)	1980 (77.9)	760 (29.9)	100 (3.93)	1190 (46.8)		25—30 rpm			1000kg/ 2205 lb
KPDL-3060A	28—40t/h	1320 (51.9)	1520 (59.8)	2000 (78.7)	2280 (89.7)							1.5kW	1200kg/ 2646 lb
KPDL-3636A	16—24t/h	660 (25.9)	930 (36.6)	1430 (56.3)	1730 (68.1)								1000kg/ 2205 lb
KPDL-3648A	25—36t/h	950 (37.4)	1220 (48.0)	1720 (67.7)	2020 (79.5)	930			100mT (1000G)		26—35 rpm		1350kg/ 2976 lb
KPDL-3660A	35—50t/h	1250 (49.2)	1520 (59.8)	2020 (79.5)	2320 (91.3)	(36.6)	120	1260		20—25		2.2kW	1700kg/ 3748 lb
KPDL-3672A	42—60t/h	1550 (61.0)	1820 (71.6)	2320 (91.3)	2620 (103.1)		(4.72)	(49.6)		rpm		2.2NVV	2000kg/ 4409 lb
KPDL-4260A	40—56t/h	1250 (49.2)	1520 (59.8)	2180 (85.8)	2520 (99.2)	1080						3.7kW	2500kg/ 5512 lb
KPDL-4272A	40—65t/h	1550 (61.0)	1820 (71.6)	2480 (97.6)	2820 (111.0)	(42.5)						3.7KVV	3000kg/ 6614 lb

[Application]

This model is recommended for removal of large iron pieces and iron lumps from various raw materials as well as from bulky wastes.

[Features]

- ●The super powerful, large magnet generates uniform and strong magnetic force.
- The robust construction can withstand impacts by large iron pieces when they are collected.
- Scrapers for complete removal and collection are mounted.
- The magnet position adjusting turnbuckle allows adjustment of the collection position as desired.
- In addition to the permanent magnet type, an electromagnet type (KEDL) is also available.

Measurements of magnet attractive force

	traction distance	_	
			[mm (in)
No.	Test Piece	Weight	Attraction Distance
1	12-cm nail	10g/0.02 lb	400 (15.7)
2	Hexagon bolt M10× 70	40g/0.09lb	325 (12.8)
3	M16×100	60g/0.13 lb	300 (11.8)
4	M20×100	280g/0.61 lb	275 (10.8)
5	Hexagon nut M20	30g/0.06 lb	150 (5.90)
6	Round bar ∮20×200	480g/1.06 lb	350 (13.7)
7	Steel 25×30× 65	350g/0.87 lb	200 (7.87)
8	Steel 6×55×280	720g/1.59 lb	400 (15.7)
9	Angle 40×40×350	930g/2.05 lb	400 (15.7)

*The values by KPDL-3660A.

Model KDS DRUM TYPE MAGNETIC SEPARATOR

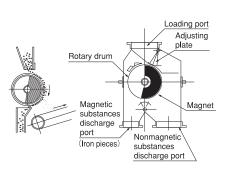


[Application]

A motor-driven magnetic separating system designed with a permanent magnetic drum housed in a casing, automatically removes and collects iron pieces, bolts, etc. from raw materials loaded from a hopper.

[Features]

- Very easy to handle.
- Compact and light weight for easy relocation and installation.
- The powerful magnetic force type having a large processing capacity.
- ●KDS-HA 180 mT (1800 G), HB 250 mT (2500 G), HC 300 mT (3000 G) and HE 500 mT (5000 G) Series are also available.

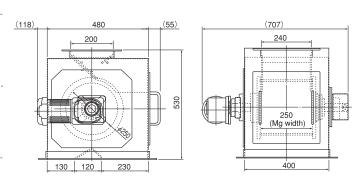


[mm (in)]

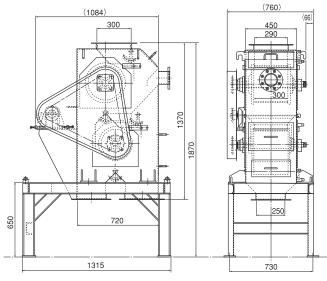
Model	Flow		Dimensions		Dr	um	Motor	Mana
iviodei	Capacity	L	В	Н	φD	B₁	Motor	Mass
KDS- 250B	15m ³ /h	695 (27.3)	624 (24.5)	700 (27.5)	250 (9.84)	250 (9.84)	0.2kW	110kg/ 242 lb
KDS- 300B	25m³/h	750 (29.5)	715 (28.2)			300 (11.8)		130kg/ 286 lb
KDS- 500B	40m³/h	750 (29.5)	865 (34.0)	750 (29.5)	300 (11.8)	450 (17.7)		210kg/ 463 lb
KDS- 600B	50m ³ /h	760 (29.9)	1015 (39.9)			600 (23.6)	0.4kW	330kg/ 727 lb
KDS- 800B	75m³/h	930 (36.6)	1000 (39.3)	850 (33.4)	400 (15.7)	680 (26.7)	1	450kg/ 992 lb
KDS- 900B	90m³/h	930 (36.6)	1150 (45.2)	650 (55.4)	400 (15.7)	830 (32.6)		550kg/1213 lb
KDS-1100B	105m ³ /h	1150 (45.2)	1000 (39.3)	1100 (42.2)	500 (19.6)	680 (26.7)	0.75kW	600kg/1323 lb
KDS-1200B	125m ³ /h	1130 (45.2)	1150 (45.2)	1100 (43.3)	300 (19.6)	830 (32.6)	0./3800	740kg/1631 lb

*These models can be tested in advance.

An example of fabrication of KDS-250B-S drum magnetic separator

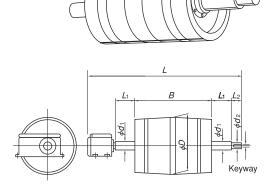


An example of fabrication of KDS-300B-2-S 2-stage drum magnetic separator



Model KER ELECTROMAGNETIC PULLEY





These pulleys have been widely used in wastes processing systems, and used to remove iron from bulk materials in chemical, steel making, coal, food and mining industries.

The electromagnetic pulley is equipped with a rectifier having an ammeter. The power source is single-phase 200 VAC and the output is 180 VDC.

[mm (in)]

Martil	D. h. Mr. du				D	imensions				Power	Mass	Applicable
Model	Belt Width	φD	В	L	ød₁	φd₂	L ₁	L ₂	Keyway	Consumption	IVIASS	Rectifier
KER- 3030C	300 (11.8)		350 (13.7)	880 (34.6)						300W	140kg/ 308 lb	
KER- 3035C	350 (13.7)		400 (15.7)	930 (36.6)	50 (1.96)	45 (1,77)	130 (5,11)	60 (2.36)		360W	155kg/ 341 lb	KR-A203
KER- 3040C	400 (15.7)	300 (11.8)	450 (17.7)	980 (38.5)	50 (1.96)	45(1.77)	130 (5.11)	60 (2.36)		400W	175kg/ 385 lb	
KER- 3045C	450 (17.7)		500 (19.6)	1030 (40.5)					14 (0.55) ×5.5 (0.21)	450W	195kg/ 429 lb	
KER- 3050C	500 (19.6)		550 (21.6)	1110 (43.7)			140 (5.51)			490W	210kg/ 463 lb	
KER- 4040C	400 (15.7)		450 (17.7)	1030 (40.5)	55 (2.16)	50 (1.96)		70 (2.75)		550W	380kg/ 837 lb	
KER- 4045C	450 (17.7)		500 (19.6)	1080 (42.5)			150 (5.90)			620W	430kg/ 948 lb	
KER- 4050C	500 (19.6)	400 (15.7)	550 (21.6)	1140 (44.8)	60 (2,36)	55 (2,16)	150 (5.90)		16 (0.62) ×6 (0.23)	680W	475kg/ 1047 lb	KR-A208
KER- 4060C	600 (23.6)		650 (25.5)	1240 (48.8)	00 (2.30)	33 (2.10)		80 (3.15)	10 (0.02) ×6 (0.23)	800W	560kg/ 1235 lb	
KER- 4075C	750 (29.5)		820 (32.2)	1430 (56.3)	65 (2,55)	60 (2,36)		00 (3.13)		1000W	700kg/ 1543 lb	
KER- 5050C	500 (19.6)		550 (21.6)	1169 (46.0)	00 (2.00)	00 (2.30)	160 (6.29)		18 (0.70) ×7 (0.27)	950W	730kg/ 1609 lb	
KER- 5060C	600 (23.6)	500 (19.6)	650 (25.5)	1279 (50.3)	70 (2,75)	65 (2,55)	100 (0.29)		10 (0.70) ×7 (0.27)	1000W	900kg/ 1984 lb	
KER- 5075C	750 (29.5)	300 (19.6)	820 (32.2)	1449 (57.0)	70 (2.73)	03 (2.55)		90 (3.54)		1300W	1130kg/ 2491 lb	
KER- 5090C	900 (35.4)		1000 (39.3)	1649 (64.9)				90 (3.34)		1500W	1300kg/ 2866 lb	
KER- 6060C	600 (23.6)		650 (25.5)	1299 (51.1)	75 (2.95)	70 (2.75)	170 (6.69)		20 (0.78) ×7.5 (0.29)	1200W	1320kg/ 2910 lb	KR-A215
KER- 6075C	750 (29.5)	600 (23.6)	820 (32.2)	1479 (58.2)				100 (3.93)	20 (0.76) ×7.3 (0.29)	1500W	1580kg/ 3483 lb	
KER- 6090C	900 (35.4)		1000 (39.3)	1679 (66.1)	80 (3.15)	75 (2.95)	180 (7.08)	100 (3.93)		1800W	1900kg/ 4189 lb	
KER- 7590C	900 (35.4)			1810 (71.2)	100 (3.93)	90 (3.54)	230 (9.05)	180 (7.08)		2800W	1800kg/ 3968 lb	
KER- 75100C	1000 (39.3)	750 (29.5)	1100 (43.3)	2020 (79.5)	100 (3.93)	30 (3.34)	250 (9.84)	200 (7.87)	25 (0.98) ×9 (0.35)	3400W	2200kg/ 4850 lb	
KER- 75120C	1200 (47.2)	730 (23.3)	1300 (51.1)	2170 (85.4)	110 (4.33)	95 (3.74)			25 (0.98) × 9 (0.93)	3800W	2600kg/ 5732 lb	KR-A230
KER- 75150C	1500 (59.0)		1600 (62.9)	2570 (101.2)	110 (4.55)	33 (3.74)	280 (11.0)	250 (9.84)		4200W	3100kg/ 6834 lb	_
KER- 90100C	1000 (39.3)		1100 (43.3)	2050 (80.7)			250 (9.84)	230 (9.05)		4300W	3000kg/ 6614 lb	
KER- 90120C	1200 (47.2)	900 (35.4)	1300 (51.1)	2280 (89.7)	125 (4.92)	100 (3.93)	280 (11.0)	250 (9.84)		4700W	3500kg/ 7716 lb	_
KER- 90150C	1500 (59.0)		1600 (62.9)	2670 (105.1)			300 (11.8)	300 (11.8)	28 (1.10) ×10 (0.39)	5200W	4400kg/ 9700 lb	
KER-100120C	1200 (47.2)	1000 (39.3)	1300 (51.1)	2490 (98.0)	135 (5,31)	110 (4.33)	330 (12.9)			5500W	4200kg/ 9259 lb	LMT-A240
KER-100150C	1500 (59.0)	1000 (39.3)	1600 (62.9)	2900 (114.2)	100 (0.01)	110 (4.33)	360 (14.1)	360 (14.1)		6500W	5000kg/11023 lb	
KER-120120C	1200 (47.2)	1200 (47,2)	1300 (51.1)	2490 (98.0)	140 (5,51)	120 (4,72)	330 (12.9)	300 (14.1)	32 (1,26) ×11 (0,43)	6500W	5400kg/11905 lb	
KER-120150C	1500 (59.0)	1200 (47.2)	1600 (62.9)	2900 (114.2)	140 (3.31)	120 (4.72)	360 (14.1)		32 (1.20/ XTT (0.43)	7600W	6500kg/14330 lb	LMT-A250

Note: The slip ring SRB-100 is used for 3030C - 4060C and SR-20 for 4075C and over.

Model KPR PERMANENT MAGNETIC PULLEY

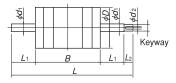


[Application]

These pulleys are utilized to remove iron as with electromagnetic pulleys.

[Features]

- ●The powerful magnetic force and its effect last almost perpetually.
- ■No power source is required to generate the magnetic force.
- Robust construction and easy handling and installation.



										[mm (in)]
Model	Belt Width				Dimens	ions				Mass
		φD	В	L	d ₁	d ₂	L ₁	L2	Keyway	
KPR- 2230	300 (11.8)	214	350 (13.7)	660 (25.9)					10 (0,39) ×	45kg/ 99 lb
KPR- 2235	350 (13.7)	(8,42)	400 (15.7)	710 (27.9)	40 (1.57)	35 (1.37)			5 (0.19)	52kg/ 114 lb
KPR- 2240	400 (15.7)	(0.42)	450 (17.7)	760 (29.9)			130	50	5 (0.19)	68kg/ 149 lb
KPR- 2735	350 (13.7)	265	400 (15.7)	710 (27.9)			(5.11)	(1.96)	12 (0.47) ×	77kg/ 169 lb
KPR- 2740	400 (15.7)	(10.4)	450 (17.7)	760 (29.9)	45 (1.77)	40 (1.5)			5(0.19)	86kg/ 189 lb
KPR- 2745	450 (17.7)	(10.4)	500 (19.6)	810 (31.8)					5 (0.19)	100kg/ 220 lb
KPR- 3240	400 (15.7)		450 (17.7)	780 (30.7)	50 (1.96)	45 (1.77)			14 (0.55) ×	110kg/ 242 lb
KPR- 3245	450 (17.7)	315	500 (19.6)	830 (32.6)	50 (1.96)	45 (1.77)	135	60	5.5 (0.21)	122kg/ 269 lb
KPR- 3250	500 (19.6)	(12.4)	550 (21.6)	880 (34.6)	60 (2.36)	EE (0.10)	(5.31)	(2.36)		135kg/ 297 lb
KPR- 3260	600 (23.6)		650 (25.5)	980 (38.5)	60 (2.36)	55 (2.16)		(2.36)		140kg/ 308 lb
KPR- 3540C	400 (15.7)		450 (17.7)	790 (31.1)						190kg/ 418 lb
KPR- 3545C	450 (17.7)	350	500 (19.6)	850 (33.4)	55 (2.16)	50 (1.96)	140			210kg/ 463 lb
KPR- 3550C	500 (19.6)	(13.7)	550 (21.6)	900 (35.4)	35 (2.16)	30 (1.96)	(5.51)	70	16 (0.62) X	230kg/ 507 lb
KPR- 3560C	600 (23.6)		650 (25.5)	1000 (39.3)				(2.75)	6 (0.23)	280kg/ 617 lb
KPR- 4045C	450 (17.7)		500 (19.6)	860 (33.8)			145			270kg/ 595 lb
KPR- 4050C	500 (19.6)	400	550 (21.6)	920 (36.2)	60 (2.36)	55 (2.16)	(5.70)	80		300kg/ 661 lb
KPR- 4060C	600 (23.6)	(15.7)	650 (25.5)	1020 (40.1)	00 (2.30)	33 (2.16)	(5.70)	(3.15)		355kg/ 782 lb
KPR- 4075C	750 (29.5)		820 (32.2)	1200 (47.2)				(3.15)		450kg/ 992 lb
KPR- 5060C	600 (23.6)	500	650 (25.5)	1040 (40.9)			150	90	18 (0.70) ×	480kg/1058 lb
KPR- 5075C	750 (29.5)	(19.6)	820 (32.2)	1210 (47.6)	70 (2.75)	65 (2.55)	(5.90)	(3.54)	7 (0.27)	630kg/1389 lb
KPR- 5090C	900 (35.4)	(13.0)	1000 (39.3)	1400 (55.1)				100	7 (0.27)	750kg/1653 lb
KPR- 6075C	750 (29.5)		820 (32.2)	1300 (51.1)	75 (2.95)	70 (2.75)	190	(3.93)	20 (0.78) ×	900kg/1984 lb
KPR- 6090C	900 (35.4)	600	1000 (39.3)	1500 (59.0)	80 (3.15)	75 (2.95)	(7.48)	120	7.5 (0.29)	1070kg/2359 lb
KPR-60105C	1050 (41.3)	(23.6)	1150 (45.2)	1670 (65.7)	90 (3.54)			(4.72)		1230kg/2712 lb
KPR-60120C	1200 (47.2)		1300 (51.1)	1820 (71.6)	90 (3.54)	85 (3.34)	200	(4.72)	25 (0.98) ×	1450kg/3197 lb
KPR- 7575C	750 (29.5)		820 (32.2)	1370 (53.9)	95 (3.74)		(7.87)	150	9(0.35)	1200kg/2646 lb
KPR-75105C	1050 (41.3)	750	1150 (45.2)	1700 (66.9)	100 (3.93)	90 (3.54)		(5.90)	9 (0.35)	1650kg/3638 lb
KPR-75120C	1200 (47.2)	(29.5)	1300 (51.1)	1950 (76.7)	110 (4.33)	95 (3.74)	250			1900kg/4189 lb
KPR-75140C	1400 (55.1)		1500 (59.0)	2150 (84.6)	120 (4.72)		(9.84)	200		2150kg/4740 lb
KPR-90105C	1050 (41.3)		1150 (45.2)	1750 (68.9)	125 (4.92)	100 (3.93)	200	(7.87)		2150kg/4740 lb
		900					(7.87)		28 (1.10) X	
KPR-90120C	1200 (47.2)	(35.4)	1300 (51.1)	2000 (78.7)	135 (5.31)	110/4.00	250	050	10 (0.39)	2450kg/5401 lb
KPR-90140C	1400 (55.1)		1500 (59.0)	2350 (92.5)	140 (5.51)	110 (4.33)	(9.84)	250 (9.84)		3050kg/6724 lb

MAGNETIC HOLDERS

MEASURING INSTRUMENTS

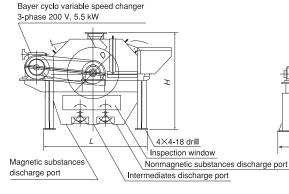
Model KHDS DRUM TYPE MAGNETIC SEPARATOR

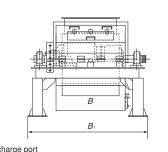
KHDS-30

An example of fabrication of KHDS



Gasification melting furnaces and slug processing





Relation between amounts to process and substances to process

In general, these parameters vary according to the specific gravity of substances to process, and such conditions of processing as the grain size, magnetized state, water content, etc.

Amount to process by KHDS-30 (Example)

Grain size 15 — 6 mm	
Chair Size 13 O min	15—7 (t/h)
Grain size 6 — 2 mm	7—5 (t/h)
Grain size less than 2 mm	5—1 (t/h)
Separation of iron wastes from nonferrous metallic chips	1—2 (t/h)

These are high performance magnetic separators designed to easily separate and collect magnetized fine powder and fine particles that are difficult to separate with other dry type magnetic separators.

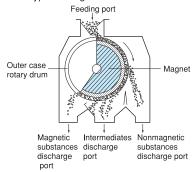
The effect of the magnetic force created by a unique pole layout together with adjustment of the centrifugal force, varying the rotation, enables collection and separation of magnetized substances without taking in impurities.

[Application]

Suitable for separation of mine smalls, sorting of weak magnetic ores and separation of iron from aluminum, copper and brass chips. In addition, these separators are also useful for separation of dust, waste sand, casting sand and shots.

[Features]

- ●The unique pole construction enables separation without taking in impurities.
- ●The drum speed can be varied according to substances to separate, which enables these separators to be used under various conditions of separation.
- A type for slug is also available.



[mm (in)]

	Model	Flow	Dii	mensions		[Orum	Mass
	wodei	Capacity	B ₁	L	Н	φD	В	IVIdSS
K	HDS-15	2.2—12.0t/h	900 (35.4)				150 (5.90)	1800kg/3968 lb
K	HDS-30	4.5-24.0t/h	1000 (39.3)				300 (11.8)	2200kg/4850 lb
K	HDS-45	6.7—36.0t/h	1150 (45.2)	1470	1500	930	450 (17.7)	2600kg/5732 lb
K	HDS-60	9.0—48.0t/h	1300 (51.1)	(57.8)	(59.0)	(36.6)	600 (23.6)	3300kg/7275 lb
K	HDS-75	11.0—60.0t/h	1500 (59.0)				750 (29.5)	3600kg/ 7937 lb
K	HDS-90	13.0—72.0t/h	1700 (66.9)				900 (35.4)	4000kg/8818 lb

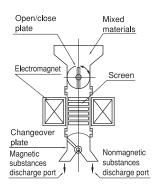
^{*}The power source is 3-phase, 200 VAC

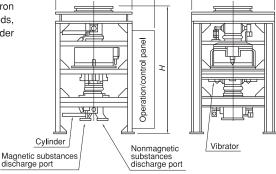
Model KIF ELECTROMAGNETIC FILTER



[Application]

These filters work well in removing fine iron powder from pigments, glass materials, foods, chemicals and other various kinds of powder materials.





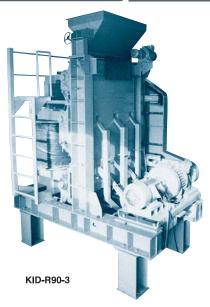
220

[mm (in)]

Model	Flow		Dimensions		Magnet	Mass		
Model	Capacity	В	L	Н	Magnet	Middo		
KIF-16	1.0m ³ /h	800 (31.5)	800 (31.5)	1300 (51.1)	0.8kW	540kg/1190 lb		
KIF-20	1.5m ³ /h	1100 (43.3)	1000 (39.3)	1550 (61.0)	1.0kW	1000kg/2205 lb		
KIF-30	3.5m ³ /h	1200 (47.2)	1100 (43.3)	1850 (72.8)	1.5kW	1500kg/3307 lb		

The high magnetic force separators are designed to generate a magnetic force as large as 2.6 T (26000 G) for separation of weak magnetic substances. In addition to the "induction roll type KID-R" and "cross belt type KID-B" that have a large processing capacity, a smaller capacity "induction type KID" and "electromagnetic filter KIF" are also available.

Model KID-R INDUCTION TYPE MAGNETIC SEPARATOR



[Application]

These separators are suitable for separation of weak magnetic substances that exist in powder and bulk materials of quartz sand (glass material), high grade casting sand and chromite sand. In addition, these separators are used to remove iron ores from such nonferrous minerals as tungsten, manganese ore, titanium ore, monazite, garnet and ilmenite, to remove weak magnetic oxides from casting sand (quartz sand) and to separate weak magnetic substances from other powder and bulk materials.

[Features]

- The induction roller generates 2.6 T max. (Tesla) at a sharp gradient and high magnetic flux density.
- The magnetic force can easily be adjusted according to magnetic substances in raw materials.
- The roller revolution can be varied steplessly.
 According to properties of raw materials, the influence of the centrifugal force by the roller can be adjusted to optimum separation. (Optional)
- When the 2-stage or 3-stage type is used, highly efficient separation is possible.
- These separators are of dry type that does not need auxiliary equipment for pre- and post-treatment.
- These separators are designed to contain dust to prevent pollution by dust.

Conditions of substances to process

Optimum substances to process are dry and flow freely and their grain size is from 8 to 150 mesh.

Capacity

The amount to process is about 200 kg/h to 1000 kg/h per induction roller width 100 mm, though it varies according to kinds and grain sizes of substances to separate and required level of separation.

One-stage or 2-stage according to applications

Because a high magnetic force is required, the magnetomotive force is induced by the roller by use of yoke so that weak magnetic substances can be separated from flowing raw materials. The figure shows the 3-stage type. One-stage, 2-stage and 3-stage are determined by the number of induction rollers.

[mm (in)]

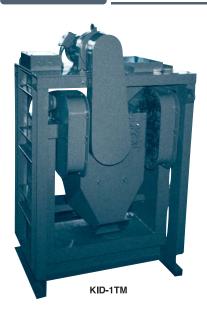
									[mm (in)
Model	Loller	Flow	[Dimension	s	Po	wer Consum	ption	Mass
iviodei	Loller	Capacity	Length	Width	Height	Magnet	Motor 1	Motor 2	Mass
KID-R35-1	1-stage								
KID-R35-2	2-stage	2.4m ³ /h	1650 (64.9)	1000 (39.3)	2300 (90.5)	1.5kW	3.7kW	250VA	2.5—3.0 ton 5512—6614 lb
KID-R35-3	3-stage		(04.5)	(00.07	(50.5)				3312 001415
KID-R60-1	1-stage								
KID-R60-2	2-stage	4.0m ³ /h		2300 (90.5)		5.5kW	7.5kW		7.0—7.5 ton 15430—16530 lb
KID-R60-3	3-stage		1700	(90.5)	2500			750VA	13430 10330 10
KID-R90-1	1-stage		(66.9)		(98.4)			/50VA	
KID-R90-2	2-stage	6.0m ³ /h		2600 (102.4)		10.0kW	11.0kW		9.0—10.0ton 19840—22050 lb
KID-R90-3	3-stage			(102.4)					19840 22030 10

*Magnetic separators dedicated for weak magnetic substances. If strong magnetic substances are mixed, they need to be removed at the preceding stage.

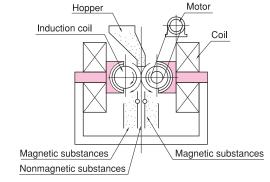
$\langle 3\text{-stage} \rangle$

- ①Hopper ②Magnetic pole for
- rough separation
- 3Branch plate4High magnetic
- force pole
- ⑤Coil
- 6Yoke
 7Induction
- magnetic roller

odel KID INDUCTION TYPE MAGNETIC SEPARATOR



Suitable for removing weak magnetic substances from glass raw materials, ceramic raw materials and chemical products. In particular, these separators work best with fine particles smaller than 1 mm. Weak magnetic substances in bulk materials are separated by a strong magnetic force.



[mm (in)]

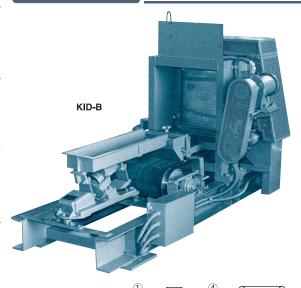
Model	Flow		Dimensions		Motor	Electro	Mass	Materia l
Model	Capacity	Width	Depth	Height	IVIOLOI	Magnet	IVIASS	ivialerial
KID-250	0.15m ³ /h	665 (26.1)	350 (13.7)	750 (29.5)	0.2 kW	0.2kW	300kg/ 661 lb	Sand & powder smaller than
NID-230	0.13111711	003 (20.1)	330 (13.7)	730 (23.3)	U.2 KVV	0.2KVV	300kg/ 001 lb	1mm (0.03)
KID-1TM	1.0 m ³ /h		650 (25.5)	1300 (51.1)	0.4 kW	0.6kW	900kg/1984 lb	Sand & powder smaller than
KID-ITIW	1.0 111-/11	810 (31.8)	030 (23.3)	1300 (31.1)	U.4 KVV	U.OKVV	900kg/1984 lb	3mm (0.11)
KID-3TM	3.0 m ³ /h	010(31.0)	850 (33.4)	1500 (59.0)	0.75kW	1.2kW	1700kg/3748 lb	Sand & powder smaller than
KID-3TW	3.0 III*/II		030 (33.4)	1300 (39.0)	U./ JKVV	1.∠KVV	1700kg/3746 ID	3mm (0.11)

(1)Coil

2Upper

3 Conveyor belt

Model KID-B CROSS BELT TYPE MAGNETIC SEPARATOR



[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

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 multistage construction, separation can be carried out according to the magnetic property of magnetic substances.
- Easily installable in the existing lines.

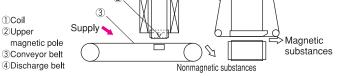
Examples of separation

Removal of iron oxide from lime stone (desiccating agent)

Removal rate 99.5%

Collection of biotite (weak magnetic substance) from feldspar

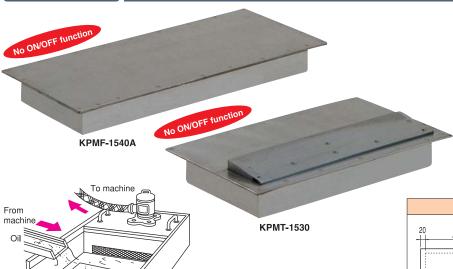
Collection rate 95% or over





An example of fabrication of 2-stage drum magnetic separator

Model KPM PLATE MAGNET



An example of iron-removing magnet

Plate magnet

in fine particle chute line.

Plate magnet

[Application]

These magnets are installed on chutes and hoppers to attract and separate magnetic substances such as iron powder from raw materials used in chemical, drug and other fine particle industries.

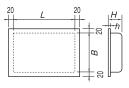
[Features]

- Strong attractive force. Compact and robust.
- ■Easy installation in any place as no power source is required.

Precautions for use

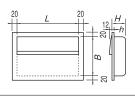
To use these magnets in liquids (e.g. water) other than oil, please specify "enclosed type."

Model KPMF



- ●The whole surface is made of stainless steel (SUS304).
- Large attractive force over a long distance.
- ●The flange area can be worked partially.

Model KPMT



- An iron magnetic plate mounted on the attractive face of Model "F."
- The holding power is applied to the attracted iron pieces by the magnetic plate so that they will not be pushed forward by following materials.

Standard Models

Separated fine iron particles stopped

Plate magnet

against the flow of materials.

Flat type

Plate magnet

Flat type								[mm (in)]
		Dimensi	ons		Holding	Capacity (Length)	
Model	В	L	Н	h	15-cm nail	M10 nut	M10×25 bolt	Mass
KPMF-1515A		150 (5.90)						6kg/ 13.2 lb
KPMF-1530A		300 (11.8)						11kg/ 24.2 lb
KPMF-1535A		350 (13.7)	1					13kg/ 28.6 lb
KPMF-1540A	150 (5,90)	400 (15.7)	42.2 (1.66)	3.2 (0.12)	80-100	40— 60 (1,57—2,36)	60— 80 (2,36—3,15)	15kg/ 33.0 lb
KPMF-1545A	(0.50)	450 (17.7)	(1.00)	(0.12)	(0.10 0.00)	(1.37 2.30)	(2.00 0.10)	17kg/ 37.4 lb
KPMF-1550A		500 (19.6)						18kg/ 39.6 lb
KPMF-1560A		600 (23.6)						22kg/ 48.5 lb
KPMF-2020A		200 (7.87)						13kg/ 28.6 lb
KPMF-2030A		300 (11.8)			100—130 (3.93—5.11)	60— 80 (2.36—3.15)	80—100 (3.15—3.93)	20kg/ 44.0 lb
KPMF-2040A	200	400 (15.7)						27kg/ 59.5 lb
KPMF-2050A	(7.87)	500 (19.6)						33kg/ 72.7 lb
KPMF-2060A		600 (23.6)						40kg /88.1 lb
KPMF-2080A		800 (31.5)	55.5 (2.18)	3.5 (0.13)				54kg/119.0 lb
KPMF-3030A		300 (11.8)	(2.10)	(0.10)				29kg/ 63.9 lb
KPMF-3040A		400 (15.7)			100 100		100 100	39kg/ 85.9 lb
KPMF-3050A	300	500 (19.6)			120—160 (4.72—6.29)	70—100	100—120 (3.93—4.72)	49kg/108.0 lb
KPMF-3060A	(11.0)	600 (23.6)			, 0.20/	(2.70 0.00)	1.72	59kg/130.1 lb
KPMF-3080A		800 (31.5)						79kg/174.2 lb

With magnetic plate

			_					Lmm (in) 1
		Dimensi	ons	ons Hold		Capacity (
Model	В	L	Н	h	15-cm nail	M10 nut	M10×25 bolt	Mass
KPMT-1515		150 (5.90)	43.5		80—100 (3.15—3.93)			7kg/ 15.0 lb
KPMT-1530		300 (11.8)						12kg/ 26.4 lb
KPMT-1540	150 (5.90)	400 (15.7)		3.2 (0.12)		40— 60 (1.57—2.36)	60— 80 (2.36—3.15)	16kg/ 35.2 lb
KPMT-1550	(0.50)	500 (19.6)		(0.12)		(1.07 2.00)	(2.30 3.13)	20kg/ 44.0 lb
KPMT-1560		600 (23.6)						24kg/ 52.9 lb
KPMT-2020		200 (7.87)			100—130 (3.93—5.11)			14kg/ 30.8 lb
KPMT-2030	000	300 (11.8)						21kg/ 46.3 lb
KPMT-2040	200 (7.87)	400 (15.7)				60— 80 (2.36—3.15)	80—100 (3.15—3.93)	29kg/ 63.9 lb
KPMT-2050	(1107)	500 (19.6)						35kg/ 77.1 lb
KPMT-2060		600 (23.6)	56.5	3.5				42kg/ 92.5 lb
KPMT-3030		300 (11.8)	(2.22)	(0.13)				32kg/ 70.5 lb
KPMT-3040		400 (15.7)						42kg/ 92.5 b
KPMT-3050	300	500 (19.6)			120—160 (4.72—6.29)	70—100	100—120 (3.93—4.72)	53kg/116.8 lb
KPMT-3060	(11.8)	600 (23.6)			(4.72 0.20)	(2.70 0.00)	(0.00 4.72)	63kg/138.9 lb
KPMT-3080	1	800 (31.5)						84kg/185.2 lb

Surface magnetic flux density 130 mT (1300 G) max.

Powerful type Powerful plate magnets using rare earth magnets

Flat 1	type							[mm (in)]
		Dimensi	ons		Holding	Capacity (Length)	
Model	В	L	Н	h	15-cm nail	M10 nut	M10×25 bolt	Mass
KPMF-H1510		100 (3.93)			100—130 (3.93—5.11)			3.0kg/6.61 lb
KPMF-H1515	150	150 (5.90)		3.2 (0.12)			80—100	4.5kg/9.92 lb
KPMF-H1520	(5.90)	200 (7.87)					(3.15—3.93)	5.5kg/12.1 lb
KPMF-H1530		300 (11.8)	25					8.5kg/18.0 lb
KPMF-H2020		200 (7.87)	(0.98)					8.0kg/17.6 lb
KPMF-H2025	200	250 (9.84)			120-160	70—100	100—120	10.0kg/22.0 lb
KPMF-H2030	(7.87)	300 (11.8)			(4.72—6.29)	(2.75-3.93)	(3.93-4.72)	11.5kg/25.0 lb
KPMF-H2040		400 (15.7)						15.5kg/34.1 lb

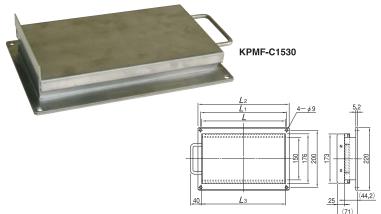
Surface magnetic flux density 300 mT (3000 G) max.

With magnetic plate

			PiG				[mm (in)]	
		Dimension	ons		Holding	Capacity (Length)	
Model	В	L	Н	h	15-cm nail	M10 nut	M10×25 bolt	Mass
KPMT-H1510		100 (3.93)						4.0kg/8.80 lb
KPMT-H1515	150	150 (5.90)		3.2 (0.12)	100—130	60— 80	80—100 (3.15—3.93)	6.0kg/13.2 lb
KPMT-H1520	(5.90)	200 (7.87)			(3.93-5.11)	(2.36-3.15)		8.0kg/17.6 lb
KPMT-H1530		300 (11.8)	25					12.0kg/26.4 lb
KPMT-H2020		200 (7.87)	(0.98)		120—160			10.0kg/22.0 lb
KPMT-H2025	200	250 (9.84)				70—100	100—120	12.5kg/27.5 lb
KPMT-H2030	(7.87)	300 (11.8)			(4.72—6.29)	(2.75—3.93)	(3.93-4.72)	15.0kg/33.0 lb
KPMT-H2040		400 (15.7)						20.0kg/44.0 lb

Surface magnetic flux density 500 mT (5000 G) max *Magnets with handle and hinge are optionally available upon request. MAGBORE

Model KPMF-C PLATE MAGNET WITH COVER



[Application]

These magnets are installed on chutes and hoppers to attract/collect magnetic substances.

[Features]

Attracted magnetic substances can be removed and cleaned very easily by pulling out the iron-removal

					[mm (in)]
Model		Dime	Mass		
woder	L	L ₁	Lz	Lз	IVIASS
KPMF-C1530	300 (11.8)	310 (12.2)	330 (12.9)	303 (11.9)	Approx. 12.5kg/27.5 lb
KPMF-C1535	350 (13.7)	360 (14.1)	380 (14.9)	353 (13.9)	Approx. 14.5kg/31.9 lb
KPMF-C1540	400 (15.7)	410 (16.1)	430 (16.9)	403 (15.8)	Approx. 16.5kg/36.3 lb
KPMF-C1545	450 (17.7)	460 (18.1)	480 (18.9)	453 (17.8)	Approx. 19 kg/41.8 lb
KPMF-C1550	500 (19.6)	510 (20.0)	530 (20.8)	503 (19.8)	Approx. 21 kg/46.3 lb

Model KPM SUSPENDED PLATE MAGNET



[Application]

These permanent magnets are suspended above a chute or conveyor belt to attract and separate magnetic substances such as small iron pieces and particles from raw materials used in chemical, drug and other fine particle industries.

[Features]

- ●Powerful attractive force. Compact and robust.
- As a permanent magnet is used, no power source is required and therefore these magnets can be used in any place.
- Very easy installation.

Precautions for use

To use these magnets in liquids (e.g. water) other than oil, please specify "enclosed type."

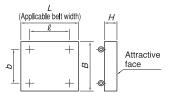
Model KPMD

IVIOGCI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	כוו				[mm (in)			
			Dimension	s		Ho l d			
Model	В	L	b	l	Н	15-cm nail	M10 nut	M10×25 bolt	Mass
KPMD-2525		250 (9.84)		170 (6.69)					22kg/ 48.5 lb
KPMD-2530		300 (11.8)		220 (8.66)	64 (2.52)	130—170 (5.11—6.69)			27kg/ 59.5 lb
KPMD-2540	250 (9.84)	400 (15.7)	170 (6.69)	320 (12.6)			60— 90 (2.36—3.54)	100—130 (3.93—5.11)	35kg/ 77.1 lb
KPMD-2550	(3.04)	500 (19.6)		420 (16.5)			(2.00 0.01)	(0.00	44kg/ 97.0 lb
KPMD-2560		600 (23.6)		520 (20.4)					54kg/119.0 lb
KPMD-3530		300 (11.8)		220 (8.66)					49kg/108.0 lb
KPMD-3540	350	400 (15.7)	270	320 (12.6)	82	160—200	80—120	110—140	64kg/141.1 lb
KPMD-3550	(13.7)	500 (19.6)	(10.6)	420 (16.5)	(3.22)	(6.29—7.87)	(3.15—4.72)	(4.33—5.51)	80kg/176.4 lb
KPMD-3560		600 (23.6)		520 (20.4)					100kg/220.5 lb

Model KPM. I

	IVIOGEI	IZI IV	10							[mm (in)]
	KPMJ-3030		300 (11.8)		200 (7.87)					87kg/191.8 lb
	KPMJ-3040	300	400 (15.7)	(7.87)	260 (10.2)		200—250	100—150	180—220	120kg/264.5 lb
	KPMJ-3050	(11.8)	500 (19.6)	(7.07)	360 (14.1)	172				150kg/330.7 lb
	KPMJ-4040		400 (15.7)		250 (9.84)	(6.77)	(7.87—9.84)	(3.93—5.90)	(7.08—8.66)	160kg/352.7 lb
	KPMJ-4060	400	600 (23.6)	250	380 (14.9)					230kg/507.1 lb
. [KPMJ-4080	(15.7)	800 (31.5)	(9.84)	500 (19.6)					310kg/683.4 lb

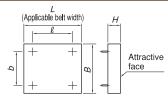
Model KPMD



Suspended permanent magnet

- Suspended above a chute of a conveyor belt to attract and remove iron pieces.
- ■Larger attraction distance than "F."
- Stainless steel (SUS304) surface.
- Eyebolts in four places.

Model KPMJ



Suspended permanent magnet

- Suspended above a chute of a conveyor belt to attract and remove iron pieces.
- ●More powerful than "D."
- Stainless steel (SUS304) surface.
- Lifting hinges in four places.

Model KGM MAGNETIC BAR



A magnetic bar used in a grid type magnet. This bar alone is also available. A round bar type having tapped holes on both ends for mounting. Casing is made of stainless steel. These bars come in various lengths for use in a wide range of applications.

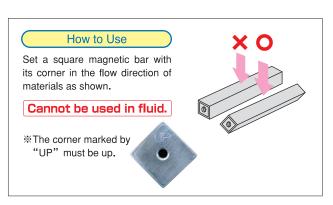
[mm (in)]

Model	Length	Dia	Max. Flux Density	Temperature Limit	Mass
KGM-20	194 (7.63)				0.5 kg/1.10 lb
KGM-25	244 (9.60)				0.55kg/1.21 lb
KGM-30	295 (11.6)	1			0.65kg/1.43 lb
KGM-35	343 (13.5)				0.8 kg/1.76 lb
KGM-40	393 (15.4)	$\phi 25$ (0.98)	130mT (1300G)	Approx. 60°C (140°F)	0.9 kg/1.98 lb
KGM-45	442 (17.4)	(0.50)		(1401)	1.0 kg/2.20 lb
KGM-50	493 (19.4)]			1.1 kg/2.42 lb
KGM-55	543 (21.3)				1.24kg/2.73 lb
KGM-60	592 (23.3)				1.34kg/2.95 lb

*The tapped holes are 2-M5, depth 6.

Model KGM-H POWERFUL MAGNETIC BAR





					[mm (in)]
Model	Length	Side Length	Max. Flux Density	Temperature Limit	Mass
KGM-H20	195 (7.67)				0.6 kg/1.32 lb
KGM-H25	245 (9.64)				0.75kg/1.65 lb
KGM-H30	295 (11.6)	(0.86)	320mT (3200G)	Approx. 60°C (140°F)	0.9 kg/1.98 lb
KGM-H35	345 (13.5)	(0.86)		(1401)	1.1 kg/2.42 lb
KGM-H40	395 (15.5)				1.2 kg/2.64 lb

*The tapped holes are 2-M5, depth 6.

Model KGM-T HEAT-RESISTANT MAGNETIC BAR

These bars can maintain their magnetic force and functions at certain high temperature.

					[mm (in)]
Model	Length	Dia	Max. Flux Density	Temperature Limit	Mass
KGM-T20	194 (7.63)	/05		Approx. 150°C	0.5 kg/1.10 lb
KGM-T25	25 244 (9.60)	φ25	130mT (1300G)	(302°F)	0.55kg/1.21 lb
KGM-T30	295 (11.6)	(0.98)		(302 F)	0.65kg/1.43 lb

※The tapped holes are 2-M5, depth 6.

Note: To use these bars in liquids (e.g. water) other than oil, please specify "enclosed type."

Separating

grid

Model KGM MAGNETIC BAR UNIT



Iron attraction

[Application]

A unit consisting of powerful permanent magnets. These units are essential for removal of iron from bulk materials in the fine particle and chemical industries to enhance the work efficiency.

[Features]

- ●The grid layout exhibits the excellent ironremoval performance.
- ●Easy installation for a wide range of applications.
- Two-stage models having a higher ironremoval capacity are also available.

Model	Type	Flow	Number of	Dir	mensions	Mass
wodei	Type	Capacity	Magnets	В	L	Mass
KGM-2020	1-stage	6m³/h	4		200 (7.87)	3.5kg/ 7.7 lb
KGM-2020W	2-stage	61117/11	7	200	200 (7.67)	6.0kg/13.2 lb
KGM-2025	1-stage	8m³/h	4	(7.87)	250 (9.84)	4.2kg/ 9.2 lb
KGM-2025W	2-stage		7		250 (9.64)	6.5kg/14.3 lb
KGM-2525	1-stage	10m ³ /h	5		250 (9.84)	5.0kg/11.0 lb
KGM-2525W	2-stage		9	250	250 (9.64)	8.4kg/18.5 lb
KGM-2530	1-stage	12m ³ /h	5	(9.84)	300 (11.8)	5.6kg/12.3 lb
KGM-2530W	2-stage	121117/11	9		300 (11.6)	9.5kg/21.0 lb
KGM-3030	1-stage	14m³/h	6		300 (11.8)	6.7kg/14.7 lb
KGM-3030W	2-stage	141117/11	11	300	300 (11.8)	11.2kg/24.6 lb
KGM-3040	1-stage	18m ³ /h	6	(11.8)	400 (15.7)	9.0kg/19.8 lb
KGM-3040W	2-stage	10111-711	11		400 (13.7)	15.7kg/34.6 lb
KGM-4040	1-stage	24m3/h	8		400 (15.7)	11.0kg/24.2 lb
KGM-4040W	2-stage	24m³/h	15	400	400 (15.7)	19.8kg/43.6 lb
KGM-4050	1-stage	30m ³ /h	8	(15.7)	500 (19.6)	13.1kg/28.8 lb
KGM-4050W	2-stage	301119/11	15		500 (19.6)	23.6kg/52.0 lb

%Surface magnetic flux density 130 mT (1300 G) max.

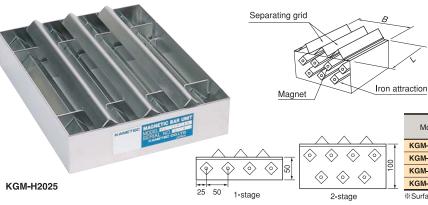
Model KGM-H POWERFUL MAGNETIC UNIT

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 $\circ \circ \circ$

2-stage

 \circ



[Application]

Suitable for removing iron from bulk materials by strong magnetic force. Two-stage models having a higher iron-removal capacity are also available.

Model	Tuno	Flow	Number of	Dimer	nsions	Mass	
wodei	Type	Capacity	Magnets	В	L	IVIASS	
KGM-H2020	1-stage	4.5m ³ /h	4		200	3.0kg/6.61 lb	
KGM-H2020W	2-stage	4.51117/11	7	200	(7.87)	5.0kg/11.0 lb	
KGM-H2025	1-stage	6 0m3/h	4	(7.87)	250	3.6kg/7.90 lb	
KGM-H2025W	W 2-stage	6.01117/11	7		(9.84)	6.0kg/13.2 lb	
KGM-H2025	1-stage	4.5m³/h 6.0m³/h	7 4 7		250	3.6kg/7.90 li	

*Surface magnetic flux density 320 mT (3200 G) max.

Model KGM-C MAGNETIC BAR UNIT



KGM-C25 (Without outer frame)

[Application]

A round type that can easily be installed at the feeding port of machines and hoppers or chutes as a gate for iron removal.

[11111(117]					
Model	Туре	Flow	Dimensi	ons	Mass
		Capacity	Frame Dia		IVIASS
KGM-C20	Without outer frame	4.5m ³ /h	(\$\phi200 (7.87))	55 (2.16)	2.1kg/4.63 lb
KGM-CF20	With outer frame	4.5111*/11	(φ200 (7.87))		2.3kg/5.07 lb
KGM-C25	Without outer frame	7.0m ³ /h	(\$\phi250(9.84))		3.3kg/7.27 lb
KGM-CF25	With outer frame	7.0111-711	(φ230 (9.84))		3.6kg/7.90 lb

*Surface magnetic flux density 130 mT (1300 G) max.

POWERFUL MAGNETIC UNIT



KGM-HCF20 (With outer frame)

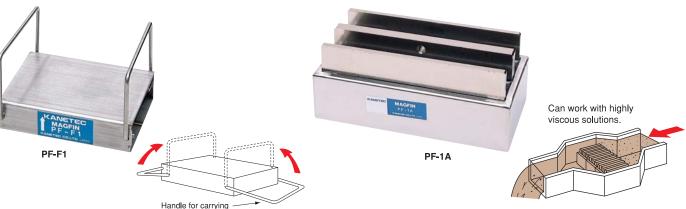
A round type combined with powerful magnetic bars that can easily be set on hoppers and chutes.



KGM-HC20 (Without outer frame)

[mm (in)]

Model	Туре	Flow	Dimensi	ons	Mass
Model		Capacity	Frame Dia	Height	
KGM-HC20	Without outer frame	4.5m³/h (φ200 (7.87))		2.1kg/4.63 lb	
KGM-HCF20	With outer frame		(φ200 (7.87))	55 (2.16)	2.3kg/5.07 lb
KGM-HC25	Without outer frame	7.0m ³ /h	(\$\phi250 (9.84))		3.3kg/7.27 lb
KGM-HCF25	With outer frame	7.0111-711	(φ230 (9.64))		3.6kg/7.90 lb



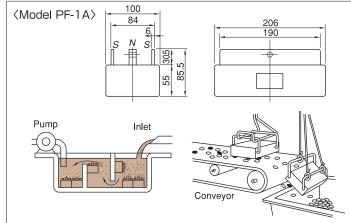
[Application]

Suitable for removing iron from liquids (cooling liquid, electric discharge liquid, etc.) in tanks and passages and as an attracting plate to remove iron in powder. They can be used both dry and wet.

[Features]

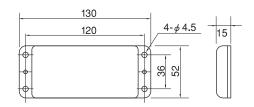
 A magnet block of a construction to cause a strong magnetic force to be concentrated on the magnetic pole.

				[mm (in)]
	Model Dimensions		Max. Flux Density	Mass
	PF-F1	120 (4.72) × 90 (3.54) ×30 (1.18)	120mT (1200G)	1.5kg/ 3.3 lb
ĺ	PF-HF1	122 (4.80) × 90 (3.54) ×26 (1.02)	250mT (2500G)	1.4kg/ 3.1 lb
	PF-HF2	122 (4.80) × 45 (1.77) ×26 (1.02)	250111 (25000)	0.7kg/ 1.5 lb
ĺ	PF-1A	206 (8.11) ×100 (3.93) ×86 (3.38)	120mT (1200G)	5.7kg/12.6 lb



Model KPM SMALL SIZE MAGNETIC PLATE





[Application]

This model can be used to catch and collect iron pieces as a small plate magnet or can also be used as a large magnetic holder. A powerful type using a rare earth magnet is also available.

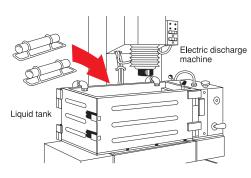
Model	Туре	Holding Power	Max. Flux Density	Mass	
KPM-1005	Standard type	60N (6kgf)	Approx. 100mT (1000G)	Approx. 350g/0.77 lb	
KPM-H1005	Powerful type	150N (15kgf)	Approx. 200mT (2000G)		

^{*}The holding power applies to SS400, 6 mm thick and ground surface held by the whole face.

STAND TYPE MAGNETIC BAR



This magnetic bar is equipped with a stand which permits placing it in a tank to remove iron in the tank fluid. We recommend packing the unit in a polyethylene or vinyl bag beforehand for convenience in removing the iron sticking to the unit.



MAGNETIC TOOLS FOR MAGNETIC
WELDING OPERATION TOOLS

LIFTING MAGNET

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