

MAGNETIC SEPARATORS



Compliance with the Energy Conservation Act in Japan

In compliance with the Revised Energy Conservation Act in Japan, all of the motors of 0.75 kW or over employed in KANETEC products are IE3 premium motors.

Types of magnetic separators

Type	Product Name	Model	Features
Eccentric pole	Nonferrous metal separator	BMR	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.
Suspension	Suspended electromagnetic separator	BST	Natural discharge type and continuous operation.
	Suspended permanent magnetic separator	SPM	Energy saving and auto discharge type for shallow conveyors.
	Round electromagnet for iron removal	HEM-C	Natural air cooling and enclosed type for less mixture of iron pieces.
	Suspended electromagnet for iron removal	HEM-BS	Oil cooled. Suitable for a small amount of mixed iron pieces.
	Suspended plate magnet	KPMD	Larger attractive force than KPMF.
Plate	Plate magnet	KPMJ	Powerful type having larger attractive force than KPMD.
		KPMF	Chute-mounted type with stainless steel surface.
Tubular	Tubular separator	CPM	Removal of iron pieces during transfer of bulk materials in a pipe.
		Round, rectangular KGM	Capable of being incorporated in any place.
Small	Grid type magnet	KGM/KGM-C	Collection of small iron pieces mixed in small amount. Installed at hopper outlet or in duct.
Pulley	Electromagnetic pulley	KER	Usable as a conveyor head pulley. For large diameter pulleys, an electromagnetic type is more effective.
	Permanent magnetic pulley	KPR	Usable as a conveyor head pulley. High iron removal rate.
Drum	Barrel separator	KBS	Barrel polishing.
	Drum separator	KDS	Casing provided for easy installation.
	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 granular materials and can be incorporated in equipment.
High magnetic force electromagnetic	Induction type high magnetic force separator	KID-R	Removal of weak magnetic granular materials. 2.6 T (26kG) max.
	Cross belt type high magnetic force separator	KID-B	For small capacity. Less mixture of raw materials in removed iron.
	Induction type separator	KID	Suitable for removing iron from casting sand.
	Electromagnetic filter	KIF	Suitable for removing iron from fine materials (powder).
High-speed drum	High-speed drum separator	KHDS	High grade sorting and collection of magnetic substances.

MAGNETIC SEPARATORS

■ Examples of application of magnetic separators in various fields

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

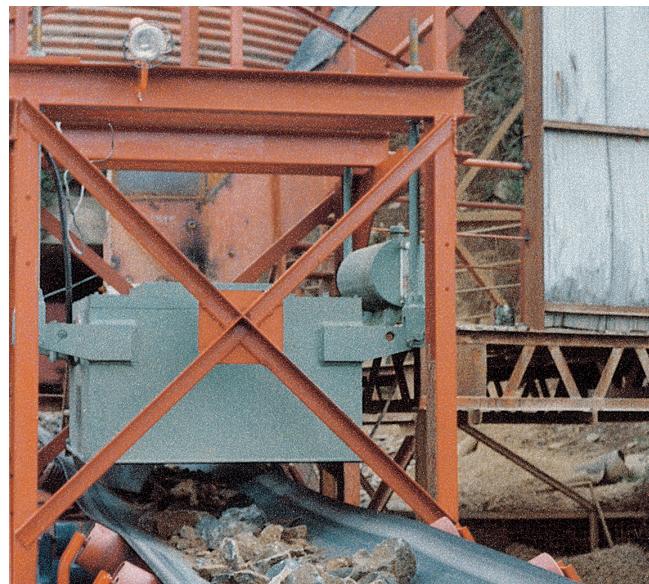
Examples of usage in various fields

Steel making and mining	Separation of steel materials and collection of iron in residues.
Machine, press, plant	Processing 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 liquid.
Casting and nonferrous	Removal of iron from casting sand and chips.
Sand and cement	Removal of iron from raw materials and mixed machined parts.
Feed and fertilizer	Removal of iron from raw materials and mixed machined parts.
Textile and fabric	Removal of iron from raw materials.
Sugar, salt and cigarettes	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 properties of materials need to be informed, as detailed below:

- Purpose (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 process per hour (kg/h, m³/h)
- Amount and ratio of mixed magnetic substances
- Other special conditions



Tests of separating samples available.

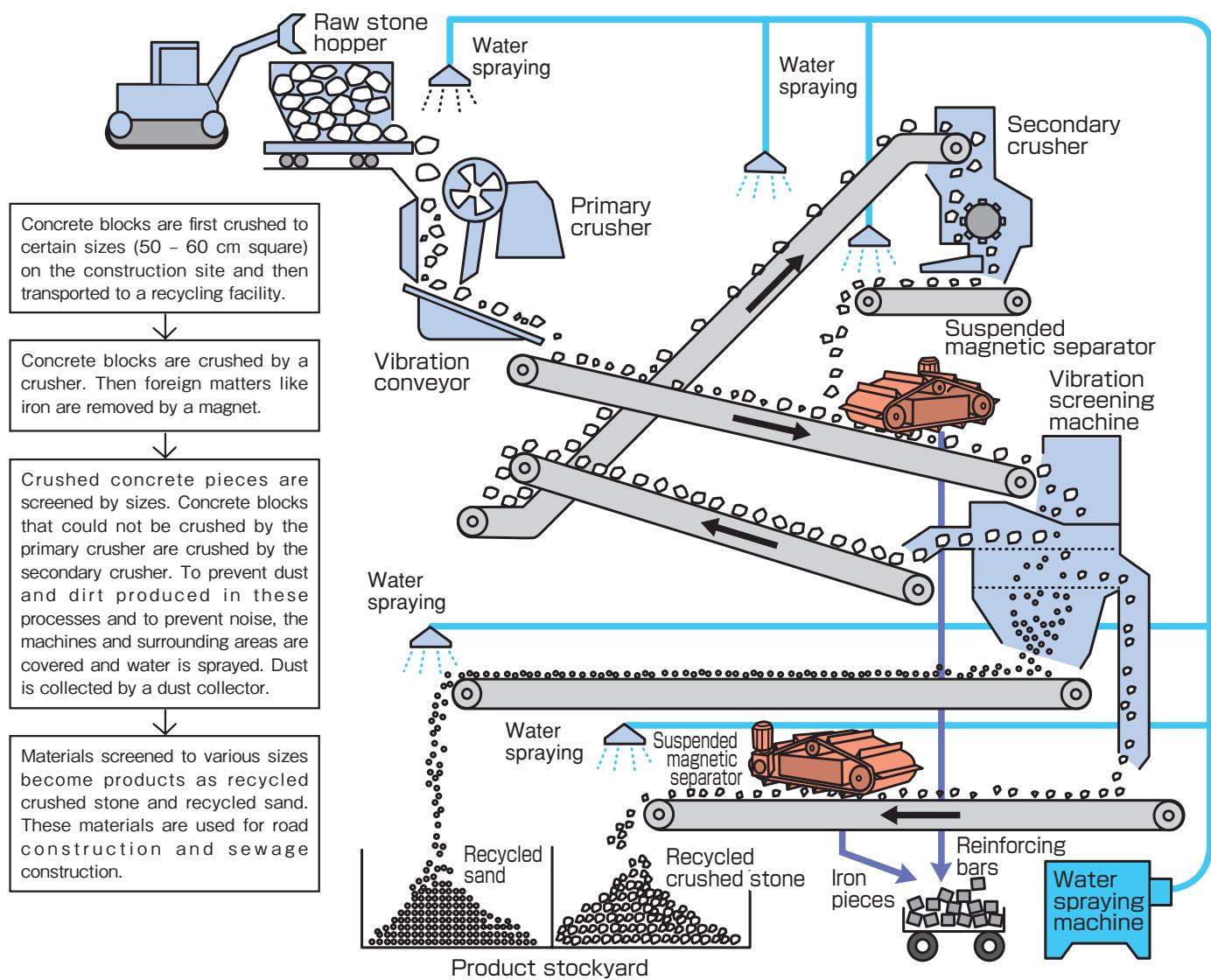
Please contact your nearest KANETEC sales office. Then we will do separation tests and model selection for you.

※ Please use the Facsimile Communication Form (Selection Data) on page 176 and page 177 to select the best separator.

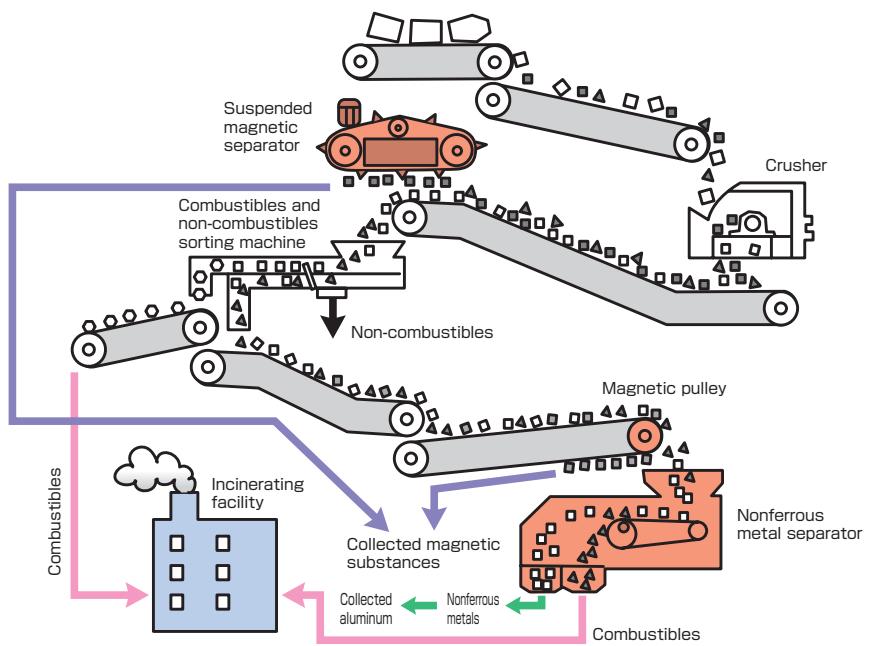
Separation on conveyor (dry)	Separation by magnetic drum (dry)	Separation by suspended separator (dry)
<ul style="list-style-type: none"> ● A magnetic pulley is used. ● A magnet is suspended over the conveyor. ● A plate magnet is installed on the discharge side of a conveyor. ● A grid type magnet is installed on the discharge side of a conveyor. ● A comb type magnet is installed on the conveyor. 	<ul style="list-style-type: none"> ● 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 conveyor. ● A magnetic drum is installed at the raw material exit. 	<p>To automatically remove iron pieces, bolts and nuts on a conveyor, a suspended magnetic separator is installed to attract and remove iron pieces.</p> <p>For fully automatic removal and discharge: BST, SPM, etc.</p> <p>For automatic removal and manual discharge: HEM-BS, HEM-C, KPMJ, KPMJ, etc.</p>
Listed on pages 139, 140, 142 & 145.	Listed on pages 141 & 143.	Listed on pages 137 & 138.
Separation in fluid (wet)	High magnetic force separator (dry)	Nonferrous metal separator
<p>A coolant separator (removal of iron particles in grinding fluid, waste oil, cooling oil), drum separator (collection of iron ores and iron sand materials) or plate magnet (removal of iron particles deposited in oil tanks) is used.</p>	<p>A magnetic separator generating a high magnetic force of 2.6 T (26000 G). Used for weak magnetic substances that cannot be removed sufficiently by a standard separator.</p>	<p>Aluminum items can be sorted and separated from noncombustible wastes and large crushed wastes efficiently.</p> <p>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.</p>
Listed on pages 115, 116, 117, 144 & 145.	Listed on page 143.	Listed on pages 135 & 136.

All data in this catalog is based on the Measurement Act in Japan and KANETEC has standardized the indication of the magnetic flux density in the units of mT and T: $0.1 \text{ mT} = 1 \text{ G}$ $1 \text{ mT} = 10 \text{ G}$ $1 \text{ T} = 10000 \text{ G}$

Construction Scrap Materials Recycling System



Non-Industrial Large Recyclable Wastes Processing System



MAGNETIC SEPARATORS

Model BMR

Model MES-J NONFERROUS METAL SEPARATORS

MAGNETICS & EQUIPMENT
FOR HEAVY OPERATION

LIFTING
MAGNET

MAGBORE*

CHIP & SLUDGE
CONVEYANCE EQUIPMENT

ENVIRONMENTAL
EQUIPMENT

MAGNETIZER AND
DEMAGNETIZER

MAGNETIC
EQUIPMENT
FOR CONVEYANCE

MAGNETIC
SEPARATORS

POWERFUL MAGNETIC
SEPARATORS

MEASURING
TOOLS

MEASURING
INSTRUMENTS

MAGNETIC
MATERIALS

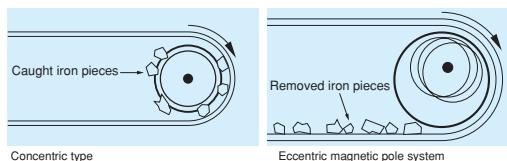
Limited natural resources to the future... Supporting recycling operations.

Environmentally friendly

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

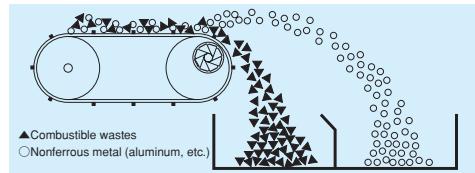


BMR-C50A



Concentric type

Removed iron pieces
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 φ352 mm type introduced for possible replacement of the rotating unit in existing machines!

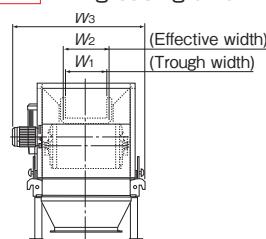
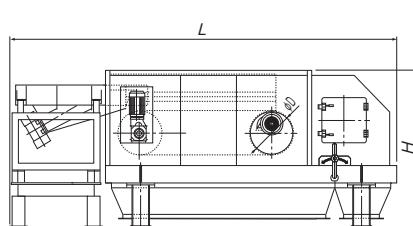
[Features]

- 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



<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

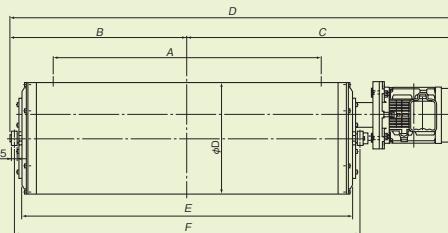
■ BMR with casing

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) 1760(69.2)	φ352(13.8) φ494(19.4)	2.2kW	1.5kW	0.5kW×2 2.2kW 5.5kW	2000kg/4409 lb 2350kg/5180 lb 2850kg/6283 lb 2400kg/5292 lb 2800kg/6174 lb 3400kg/7497 lb 4100kg/9040 lb 4300kg/9481 lb
BMR-C375A	700(27.5)	750(29.5)	1670(65.7)	4270(168)		3.7kW				
BMR-C3100A	950(37.4)	1000(39.4)	1920(75.5)	4440(174)						
BMR-C50A	450(17.7)	500(19.6)	1485(58.4)	4375(172)						
BMR-C75A	700(27.5)	750(29.5)	1735(68.3)	4525(178)						
BMR-C100A	950(37.4)	1000(39.4)	1000(39.4)	5445(214)						
BMR-C125A	1200(47.2)	1250(49.2)	1250(49.2)	5410(212)						
BMR-C150A	1450(57.0)	1500(59.0)	1500(59.0)	5435(213)						

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



BMR-5050A



<BMR rotating unit>

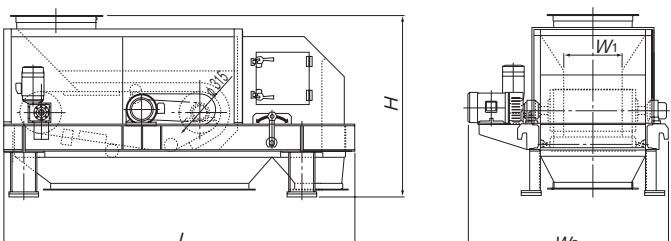
■ BMR rotating unit only

Model	Drive Motor	Dimensions						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)	Approx. 220kg/ 485 lb Approx. 260kg/ 573 lb Approx. 300kg/ 661 lb	•Motor •Coupling •Mounting bracket
BMR-3575A		750(29.5)	607(23.8)	930(36.6)	1537(60.5)	1020(40.1)	1092(42.9)		
BMR-35100A		1000(39.4)	732(28.8)	1055(41.5)	1787(70.3)	1270(50.0)	1342(52.8)		
BMR-5050A	3.7kW	500(19.6)	453(17.8)	823(32.4)	1276(50.2)	795(31.2)	867(34.1)	Approx. 500kg/1102 lb Approx. 650kg/1433 lb Approx. 800kg/1763 lb	•Motor •Coupling •Mounting bracket
BMR-5075A		750(29.5)	578(22.7)	974(38.3)	1552(61.1)	1045(41.1)	1117(43.9)		
BMR-50100A		1000(39.4)	703(27.6)	1099(43.2)	1802(70.9)	1295(50.9)	1367(53.8)		
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 Approx. 1120kg/2469 lb	
BMR-50150A		1500(59.0)	953(37.5)	1374(54.0)	2326(91.5)	1795(70.6)	1867(73.5)		

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



MES-J345-S Special specification



<External view of aluminum separator>

■ Types dedicated to collection of aluminum cans

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 1450kg/3197 lb 1700kg/3748 lb
MES-J360A	600(23.6)	1660(65.3)					
MES-J390A	900(35.4)	2010(79.1)					

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Model BST SUSPENDED ELECTROMAGNETIC SEPARATOR

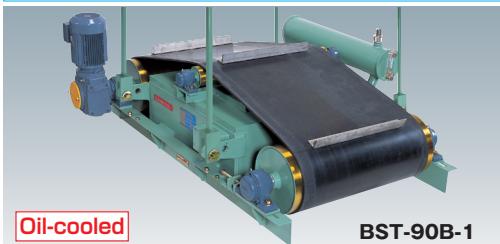
“Air-cooled type” that uses no cooling oil to reduce environmental burden added to “BST Series” !

Environmentally friendly

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

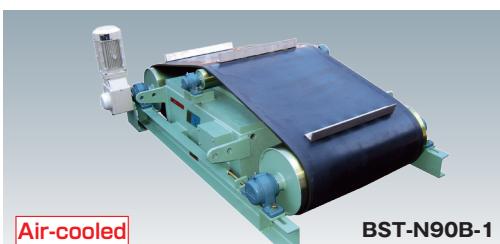


Fully automatic discharge



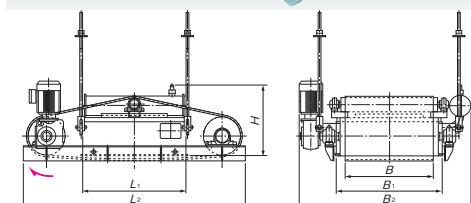
Oil-cooled

BST-90B-1

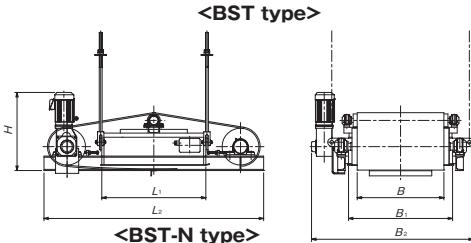


Air-cooled

BST-N90B-1



<BST type>



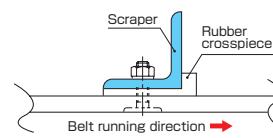
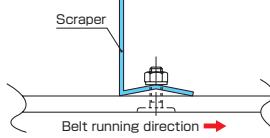
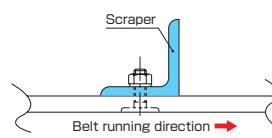
<BST-N type>

Different shapes of scrapers according to models.

Model: BST-**B-1/BST-N**B-1
Shape: Angle scraper

Model: BST-**B-2/BST-N**B-2
Shape: Scraper with folded SUS plate

Model: BST-**B-3/BST-N**B-3
Shape: Angle scraper with L-shaped rubber crosspiece



3 sizes added for selection of more suitable types!

[mm (in)]

Model	Conveyor Belt Width		Belt Width	Overall Dimensions				Electromagnet Dimensions	Power Consumption		Mass	Applicable Control Unit
	Cross suspension	Parallel suspension		B	L ₂	B ₂	H		L ₁	B ₁		
Standard (BST)	Air-cooled (BST-N)											
BST-65B-1.2.3	BST-N65B-1.2.3	450(17.7)-650(25.5)	300(11.8)-450(17.7)	150(5.90)-200(7.87)	450(17.7)	1640(64.5)	1170(46.0)	1095(43.1)	610(24.0)	620(25.5)	650(25.5)	1.5kW
BST-80B-1.2.3	BST-N80B-1.2.3	600(23.6)-800(31.5)	450(17.7)-600(23.6)	150(5.90)-250(9.84)	600(23.6)	1790(70.4)	1320(51.9)	1245(49.0)	585(23.0)	800(31.5)	800(31.5)	2.4kW
BST-90B-1.2.3	BST-N90B-1.2.3	700(27.5)-900(35.4)	600(23.6)-750(29.5)	200(7.87)-300(11.8)	750(29.5)	1900(74.8)	1500(59.0)	1400(55.1)	645(25.3)	675(35.3)	900(35.4)	3.1kW
BST-100B-1.2.3	BST-N100B-1.2.3	800(31.5)-1000(39.4)	750(29.5)-900(35.4)	250(9.84)-350(13.7)	900(35.4)	1720(88.5)	1565(61.6)	825(32.4)	825(32.4)	1000(39.4)	1000(39.4)	4.0kW
BST-105B-1.2.3	BST-N105B-1.2.3	950(37.4)-1050(41.3)	750(29.5)-950(37.4)	250(9.84)-350(13.7)	950(37.4)	2300(90.5)	1670(67.7)	839(33.0)	839(33.0)	1050(41.3)	1050(41.3)	4.7kW
BST-115B-1.2.3	BST-N115B-1.2.3	950(37.4)-1150(45.2)	850(33.4)-1050(41.3)	300(11.8)-350(13.7)	1050(41.3)	1865(94.4)	1715(73.4)	820(32.2)	820(32.2)	1150(45.2)	1150(45.2)	5.2kW
BST-120B-1.2.3	BST-N120B-1.2.3	1050(41.3)-1200(47.2)	950(37.4)-1050(41.3)	300(11.8)-350(13.7)	1050(41.3)	2450(96.4)	1865(73.4)	887(34.9)	887(34.9)	1200(47.2)	1200(47.2)	5.6kW
BST-130B-1.2.3	BST-N130B-1.2.3	1100(43.3)-1300(51.1)	1000(39.4)-1200(47.2)	300(11.8)-400(15.7)	1200(47.2)	2800(110)	2150(84.6)	1965(77.3)	910(35.8)	840(33.0)	1300(51.1)	6.6kW
BST-140B-1.2.3	BST-N140B-1.2.3	1300(51.1)-1400(55.1)	1100(43.3)-1300(51.1)	300(11.8)-400(15.7)	1400(55.1)	2900(114)	2350(85.2)	835(32.8)	835(32.8)	1400(55.1)	1400(55.1)	7.5kW
BST-150B-1.2.3	BST-N150B-1.2.3	1300(51.1)-1500(59.0)	1200(47.2)-1400(55.1)	300(11.8)-450(17.7)	1500(59.0)	3000(118)	2570(92.5)	2385(83.2)	805(33.2)	1500(59.0)	1500(59.0)	8.7kW
BST-170B-1.2.3	BST-N170B-1.2.3	1500(59.0)-1700(66.9)	1400(55.1)-1600(62.9)	400(15.7)-550(21.6)	1600(66.9)	3200(126)	2570(101.2)	2385(93.8)	865(34.0)	907(35.7)	1700(66.9)	10.4kW
											1700(66.9)	8.1kW
											1700(66.9)	5.5kW
											1700(66.9)	7.350kg/16203lb
												BSTR-170I

*A type that uses permanent magnets together is also available.

**A type with a dustproof cover is also available.

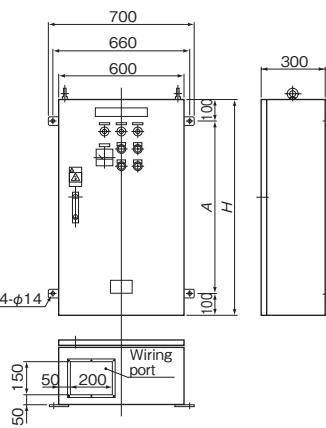
For overhead pulley suspension (parallel suspension), suspension fixtures need to be changed partially.

The electromagnet power consumption is based on 200 VAC (50 Hz).

The belt conveyor width for each model is for reference only. As the model to be selected can be different depending on the flow width and volume of objects to process, please consult with us.

Model BSTR CONTROL UNIT**Indoor type**

A new compact type; one third of the volume of the conventional unit! Space saving and wall mountable!



Model	Power Source	Electromagnet Output	Drive Motor Output	Dimensions		Construction	Mass
				H	A		
BSTR-65I	90 VDC	1.5kW	200VAC1.5kW 200VAC2.2kW 200VAC3.7kW 200VAC5.5kW	1000 (39.4)	800 (31.5)	*2 Indoor, dustproof, wall mounttype	Approx. 70 kg/154 lb Approx. 90kg/198 lb
BSTR-80I	90 VDC	2.4kW					
BSTR-90I	90 VDC	3.1kW					
BSTR-100I	180 VDC	4.0kW					
BSTR-105I	180 VDC	4.7kW					
BSTR-115I	180 VDC	5.2kW					
BSTR-120I	270 VDC	5.6kW					
BSTR-130I	270 VDC	6.6kW					
BSTR-140I	270 VDC	7.5kW					
BSTR-150I	270 VDC	8.7kW					
BSTR-170I	180 VDC	10.4kW					

※1: A power source of 220 VAC, 60 Hz, 3φ can also be used.

※2 The outdoor type has partially different specifications.

Exchanging of electromagnet cooling oil**Models and required amount of oil**

Model	Amount(L)	Model	Amount(L)	Model	Amount(L)
BST- 65B	80	BST-105B	225	BST-140B	385
BST- 80B	100	BST-115B	265	BST- 150B	450
BST- 90B	120	BST- 120B	345	BST- 170B	570
BST-100B	235	BST- 130B	415		

※ Exchange oil once every five years. (The frequency 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.

Manufacture (Brand)	Property	Total Acid Number (mgKOH/g)	Flashing Point (PM) °C	Specific Gravity 15/4°C	Breakdown Voltage (KV)
Idemitsu Kosan (Transformer Oil G)		0.02 max.	130 min.	0.91 max.	30 min.
Showa Shell Sekiyu (Shell Transformer Oil A)					
JX Nippon Oil & Energy Corp. (High Voltage Insulating Oil K)					

※ Cooling oil used by KANETEC; Idemitsu Kosan Transformer Oil G

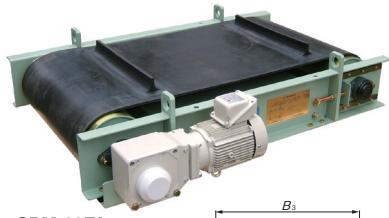
※ By using a cooling oil having a high flashing point, it is possible to offer a product that is excluded from the dangerous goods stipulated in the Fire Services Act in Japan.

Model SPM SUSPENDED PERMANENT MAGNETIC SEPARATOR**Fully automatic discharge type**

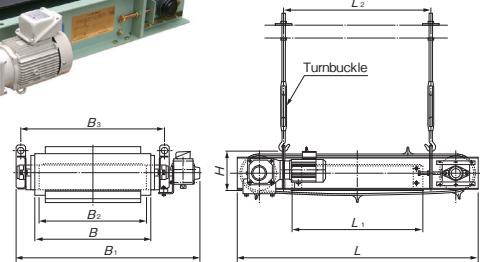
Removing iron in wood-processing plants for biomass power generation also!

**All models employ the IE3 motors!**

The top runner motors in compliance with the Energy Conversation Act in Japan are used. (Power consumption 0.75 kW or over)



SPM-60FA



※ The shape of the suspending bracket is different among SPM-100FA, 120FA, 65120A - 65160A.

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. This model is also suitable for removing iron in operations of industrial wastes sorting systems.

[Features]

- Permanent magnet type, requiring no DC power source.
- 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.
- Usable for wide-belt conveyors and special designs of interface of discharge chutes. (Long type SPM-65120A - 65160A)
- A powerful type is also available.
- An overhead pulley suspension (parallel suspension) type is also available. (Special fabrication)
- An optional intrusion preventing plate is also available.
- The motor breaker is optionally available for simple motor ON/OFF operation and prevention of burn due to motor overloading. (The breaker is available individually.)

[mm(in)]

Model	Conveyor Belt Width (※1)		Conveyor Installation Length	Belt Width	Overall Dimensions				Magnet Size	Power Consumption	Mass
	Cross suspension	Parallel suspension (※2)			B	L	B ₁	H			
SPM-30F	- 400(15.7)	-	90(3.54)-130(5.11)	300(11.8)	1000(39.4)	677(36.6)	248(9.76)	440(17.3)	470(18.5)	400(15.7)	250(9.84)
SPM-40F	300(11.8)- 500(19.6)	-	350(13.7)	100(3.93)-150(5.90)	400(15.7)	1100(43.3)	777(30.6)	540(21.2)	570(22.4)	500(19.6)	350(13.7)
SPM-60FA	500(19.6)- 650(25.5)	300(11.8)- 450(17.7)	150(5.90)-200(7.87)	600(23.6)	1270(50.0)	1015(39.9)	242(9.52)	700(27.5)	770(30.3)	650(25.5)	490(19.2)
SPM-80FA	650(25.5)- 800(31.5)	500(19.6)- 650(25.5)	700(27.5)	1470(57.8)	1115(43.9)	900(35.4)	870(34.2)	800(31.5)	650(25.5)	610kg/1344lb	610kg/1344lb
SPM-100FA	800(31.5)-1000(39.4)	650(25.5)- 800(31.5)	900(35.4)	1900(74.8)	1435(56.5)	1100(43.3)	1170(46.0)	1000(39.4)	800(31.5)	1150kg/2535lb	1150kg/2535lb
SPM-120FA	1100(43.3)-1300(51.1)	800(31.5)- 950(37.4)	1050(41.3)	2200(86.6)	1605(63.1)	312(12.2)	1400(55.1)	1320(51.9)	1300(51.1)	950(37.4)	1.5 kW
SPM-65120A	-1050(41.3)	-	200(7.87)	-250(9.84)	1870(73.6)		1000(39.4)	1200(47.2)			1600kg/3527lb
SPM-65140A	-1200(47.2)	-	700(27.5)	2070(81.5)	1147(45.1)	258(10.1)	1200(47.2)	890(35.0)	1400(55.1)	650(25.5)	880kg/1940lb
SPM-65160A	-1400(55.1)	-			2270(89.3)		1400(55.1)	1600(62.9)			990kg/2182lb
											1100kg/2425lb

※ The outdoor specification is the standard.

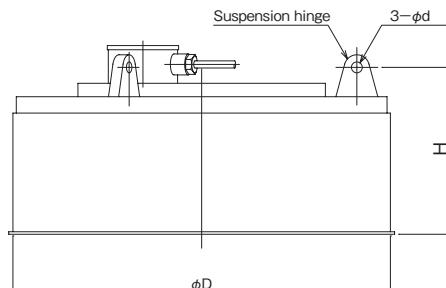
※(1) The belt conveyor width for each model is for reference only. As the model to be selected can be different depending on the flow width and volume of objects to process, please consult with us.

※(2) The parallel suspension specification is optional.

MAGNETIC SEPARATORS

Model HEM-C ROUND ELECTROMAGNET FOR IRON REMOVAL

Air-cooled



Model	Conveyor Belt Width	Conveyor Installation Length	Dimensions			Power Consumption	Mass	Applicable Rectifier
			ϕD	H	d			
HEM-40C	350 (13.7)	120 (4.72)–150 (5.90)	400 (15.7)	240 (9.44)	16 (0.62)	0.51kW	170kg/ 375 lb	KR-A208
HEM-50C	400 (15.7)	130 (5.11)–180 (7.08)	500 (19.6)	300 (11.8)	22 (0.86)	0.82kW	310kg/ 683 lb	
HEM-65CN	500 (19.6)	150 (5.90)–200 (7.87)	650 (25.5)	320 (12.5)	—	1.5/1.8kW	340kg/ 749 lb	HEMR-65CNI
HEM-75CN	600 (23.6)	150 (5.90)–250 (9.84)	750 (29.5)	330 (12.9)	26 (1.02)	2.0/2.4kW	500kg/ 1102 lb	HEMR-75CNI
HEM-90CN	750 (29.5)	200 (7.87)–300 (11.8)	900 (35.4)	400 (15.7)	—	2.6/3.1kW	900kg/ 1984 lb	HEMR-90CNI
HEM-110CN	900 (35.4)	250 (9.84)–350 (13.7)	1100 (43.3)	465 (18.3)	32 (1.25)	3.9/4.7kW	1560kg/ 3439 lb	HEMR-110CNI
HEM-130CN	1050 (41.3)	300 (11.8)–450 (17.7)	1300 (51.1)	535 (21.0)	36 (1.41)	5.8/7.1kW	2370kg/ 5225 lb	HEMR-130CNI
HEM-150CN	1200 (47.2)	400 (15.7)–550 (21.6)	1500 (59.0)	585 (23.0)	42 (1.65)	7.3/8.8kW	3630kg/ 8004 lb	HEMR-150CNI

※The power consumption is based on 200 VAC, 50/60 Hz. (HEM-40C/50C consume the same amount of electricity on both 50 Hz and 60 Hz.)

※The belt conveyor width for each model is for reference only. As the model to be selected can be different depending on the flow width and volume of objects to process, please consult with us.

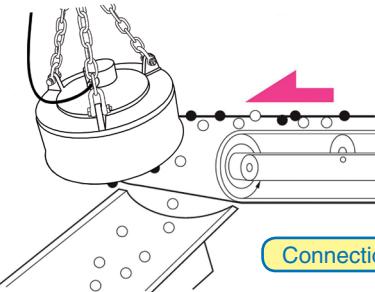
※Suspension chains and suspension bolts are not included.

[Application]

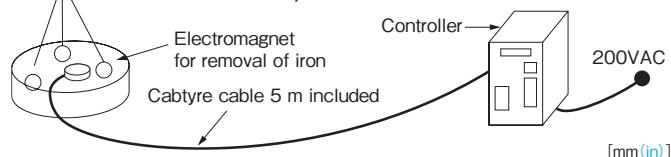
The standard suspended electromagnet designed for removing iron from substances on conveyors. This model is suitable for removing iron from ores and various materials (glass, ceramics, sugar, paper, chemicals, etc.) as well as from crushed stone in crushing plants and from casting sand in casting plants.

[Features]

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



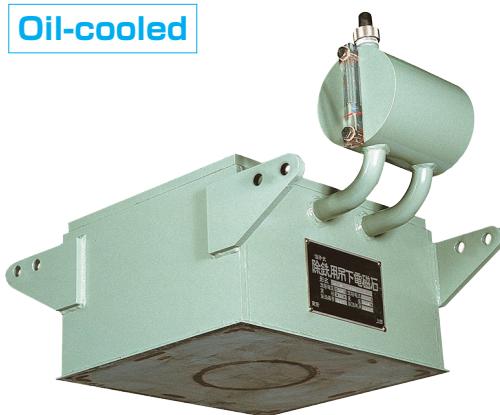
Connection diagram



[mm (in)]

Model HEM-BS SUSPENDED ELECTROMAGNET FOR IRON REMOVAL

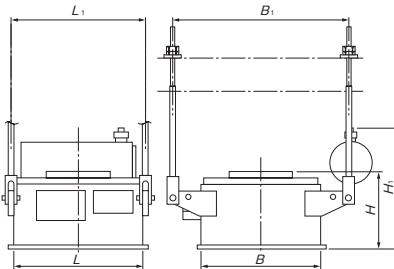
Oil-cooled



HEM-BS65

[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 conveyors. 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 trouble-free operation.
- The oil-cooled system can keep temperature rise and heating below a certain level when in continuous operation. (For cooling oil used, see page 134.)
- The separating capacity is about the same as Model BST.
- The magnetic separation efficiency is high because an effective magnetic field is produced all over the attractive face.
- The applicable belt width has been widened.

[mm (in)]

Model	Conveyor Belt Width	Conveyor Installation Length	Dimensions						Power Consumption	Mass	Applicable Rectifier
			L	B	H	L ₁	B ₁	H ₁			
HEM-BS65	450 (17.7)	150 (5.90)–200 (7.87)	650 (25.5)	650 (25.5)	347 (13.6)	755 (29.7)	1025 (40.3)	605 (23.8)	1.5kW	590kg/ 1300 lb	HEMR-BS 65
HEM-BS80	600 (23.6)	150 (5.90)–250 (9.84)	800 (31.5)	800 (31.5)	328 (12.9)	905 (35.6)	1175 (46.2)	570 (22.4)	2.4kW	870kg/ 1918 lb	HEMR-BS 80
HEM-BS90	750 (29.5)	200 (7.87)–300 (11.8)	900 (35.4)	900 (35.4)	349 (13.7)	1005 (39.5)	1360 (53.5)	600 (23.6)	3.1kW	1200kg/ 2646 lb	HEMR-BS 90
HEM-BS100	900 (35.4)	250 (9.84)–350 (13.7)	1000 (39.4)	1000 (39.4)	485 (19.0)	1115 (43.8)	1583 (62.3)	790 (31.1)	4.0kW	1820kg/ 4013 lb	HEMR-BS100
HEM-BS115	1050 (41.3)	300 (11.8)–350 (13.7)	1150 (45.2)	1150 (45.2)	496 (19.5)	1265 (49.8)	1733 (68.2)	785 (30.9)	5.2kW	2800kg/ 6174 lb	HEMR-BS115
HEM-BS130	1200 (47.2)	300 (11.8)–400 (15.7)	1300 (51.1)	1300 (51.1)	593 (23.3)	1431 (56.3)	1926 (75.8)	890 (35.0)	6.6kW	4100kg/ 9040 lb	HEMR-BS130
HEM-BS150	1400 (55.1)	300 (11.8)–450 (17.7)	1500 (59.0)	1500 (59.0)	498 (19.6)	1643 (64.6)	2126 (83.7)	775 (30.5)	8.7kW	4900kg/ 10804 lb	HEMR-BS150
HEM-BS170	1600 (62.9)	400 (15.7)–550 (21.6)	1700 (66.9)	1700 (66.9)	575 (22.6)	1843 (72.5)	2326 (91.5)	840 (33.0)	10.4kW	6500kg/ 14332 lb	HEMR-BS170

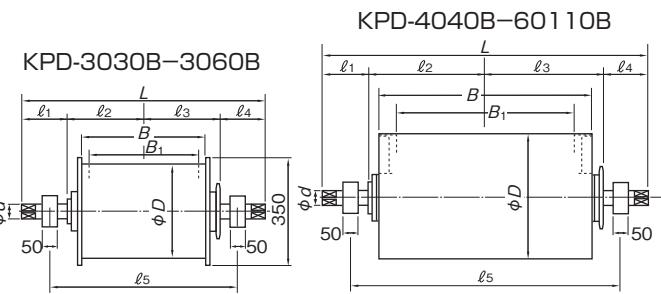
※The power consumption is based on 200 VAC (50 Hz). ※ Suspension bolts are included as standard accessories.

※The belt conveyor width for each model is for reference only. As the model to be selected can be different depending on the flow width and volume of objects to process, please consult with us.

Model KPD PERMANENT MAGNETIC DRUM


[Application]

Used for sorting wastes and removing iron from granular materials in mining, ceramic, chemical and food industries.

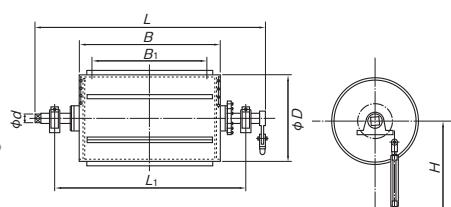


[Features]

- A powerful permanent magnet is used, requiring no power source.
- The outer nonmagnetic drum is rotated to automatically discharge iron.
- The drum shell is made of nonmagnetic stainless steel.
- KPD-HA 180 mT (1800 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	Processing Capacity	Dimensions										Surface Magnetic Flux Density	Recommended Revolution	Recommended Motor	Mass
		D	B1	B	l2	l3	L	l5	l4	l1	phi D				
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	35m³ /h	300 (11.8)	368 (14.4)	400 (15.7)	250 (9.84)	275 (10.8)	790 (31.1)	680 (26.7)	120 (4.72)	145 (5.70)	45 (1.77)		30-45rpm		80kg/ 176 lb
KPD- 3050B	45m³ /h		468 (18.4)	500 (19.6)	300 (11.8)	325 (12.8)	890 (35.0)	780 (30.7)							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	45m³ /h		330 (12.9)	430 (16.9)	260 (10.2)	292 (11.5)	830 (32.6)	710 (27.9)							150kg/ 330 lb
KPD- 4050B	60m³ /h	400 (15.7)	430 (16.9)	530 (20.8)	310 (12.2)	342 (13.4)	930 (36.6)	810 (31.8)			55 (2.16)		25-40rpm		200kg/ 440 lb
KPD- 4065B	75m³ /h		580 (22.8)	680 (26.7)	385 (15.2)	417 (16.4)	1080 (42.5)	960 (37.8)							250kg/ 551 lb
KPD- 4080B	90m³ /h		730 (28.7)	830 (32.6)	460 (18.1)	492 (19.3)	1230 (48.4)	1110 (43.7)							215kg/ 474 lb
KPD- 5050B	80m³ /h	500 (19.6)	430 (16.9)	530 (20.8)	310 (12.2)	342 (13.4)	930 (36.6)	810 (31.8)	123 (4.84)	155 (6.10)	60 (2.36)	100mT (1000G)			280kg/ 617 lb
KPD- 5065B	105m³ /h		580 (22.8)	680 (26.7)	385 (15.2)	417 (16.4)	1080 (42.5)	960 (37.8)							345kg/ 760 lb
KPD- 5080B	125m³ /h		730 (28.7)	830 (32.6)	460 (18.1)	492 (19.3)	1230 (48.4)	1110 (43.7)							410kg/ 903 lb
KPD- 5095B	150m³ /h		880 (34.6)	980 (38.5)	535 (21.0)	567 (22.3)	1380 (54.3)	1260 (49.6)							335kg/ 738 lb
KPD- 6065B	190m³ /h	600 (23.6)	580 (22.8)	680 (26.7)	385 (15.2)	417 (16.4)	1080 (42.5)	950 (37.4)							410kg/ 903 lb
KPD- 6080B	220m³ /h		730 (28.7)	830 (32.6)	460 (18.1)	492 (19.3)	1230 (48.4)	1100 (43.3)							490kg/ 1080 lb
KPD- 6095B	240m³ /h		880 (34.6)	980 (38.5)	535 (21.0)	567 (22.3)	1380 (54.3)	1250 (49.2)							1.5kW
KPD-60110B			1030 (40.5)	1130 (44.4)	610 (24.0)	642 (25.2)	1530 (60.2)	1400 (55.1)							570kg/ 1257 lb

Model KPDL LARGE PERMANENT MAGNETIC DRUM


KPDL-3048A

[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 a 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 provided.
- The magnet position adjusting turnbuckle is installed to enable 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 (attraction distance)

[mm (in)]

No.	Test Piece to Attract	Weight (g)	Attraction Distance (mm)
1	12-cm nail	10g/0.02 lb	400 (15.7)
2	Hex bolt M10 × 70	40g/0.09 lb	325 (12.8)
3	Hex bolt M16 × 100	60g/0.13 lb	300 (11.8)
4	Hex bolt M20 × 100	280g/0.61 lb	275 (10.8)
5	Hex nut M20	30g/0.06 lb	150 (5.90)
6	Round bar φ20 × 200	480g/1.06 lb	350 (13.7)
7	Steel plate 25 × 30 × 65	350g/0.87 lb	200 (7.87)
8	Steel plate 6 × 55 × 280	720g/1.59 lb	400 (15.7)
9	Angle 40 × 40 × 350	930g/2.05 lb	400 (15.7)

※ Values by KPDL-3660A.

Model	Processing Capacity, Magnetized substance × 75%	Dimensions					Surface Magnetic Flux Density	Recommended Revolution	Recommended Motor	Mass
		B1	B	L1	L	D				
KPDL-3026A	12-17t/h	460 (18.1)	660 (25.9)	1140 (44.8)	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)					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 (36.6)	120 (4.72)	1260 (49.6)	26-35 rpm	1350kg/ 2976 lb
KPDL-3660A	35-50t/h	1250 (49.2)	1520 (59.8)	2020 (79.5)	2320 (91.3)					1700kg/ 3748 lb
KPDL-3672A	42-60t/h	1550 (61.0)	1820 (71.6)	2320 (91.3)	2620 (103.1)					2000kg/ 4409 lb
KPDL-4260A	40-56t/h	1250 (49.2)	1520 (59.8)	2180 (85.8)	2520 (99.2)	1080 (42.5)				2500kg/ 5512 lb
KPDL-4272A	40-65t/h	1550 (61.0)	1820 (71.6)	2480 (97.6)	2820 (111.0)					3000kg/ 6614 lb

MAGNETIC SEPARATORS

Model KDS DRUM TYPE MAGNETIC SEPARATOR



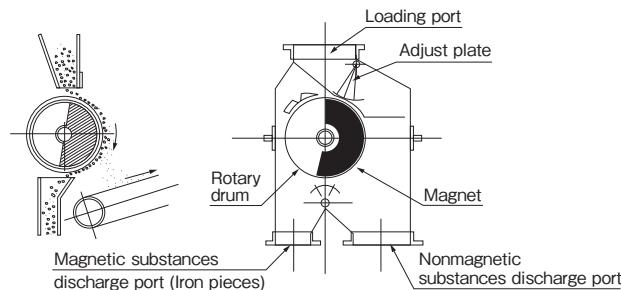
KDS-300C

[Application]

A motor-driven magnetic separating system incorporating a permanent magnetic drum 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-C 180 mT (1800 G), HC-C 300 mT (3000 G), HE-C 500 mT (5000 G) Series are also available.

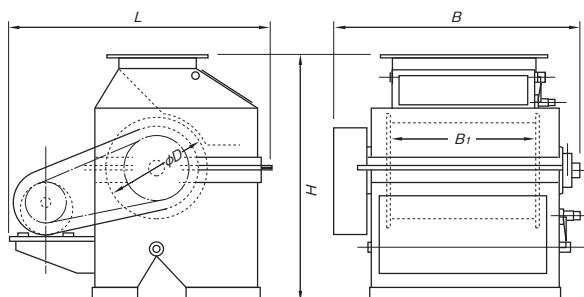


[mm (in)]

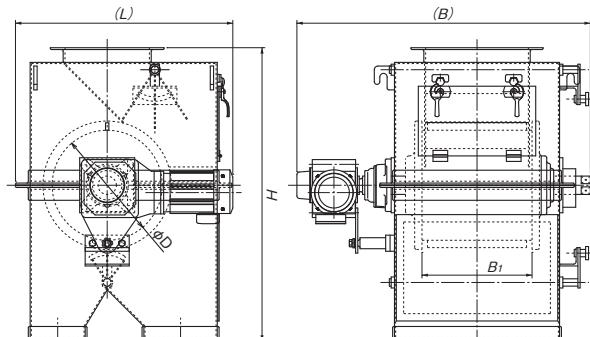
Model	Processing Capacity	Dimensions			Drum		Surface Magnetic Flux Density	Drive Motor	Mass
		L	B	H	ϕD	B_1			
KDS-250C	15m ³ /h	540(21.2)	700(27.5)	725(28.5)	250(9.84)	250(9.84)	90mT(900G)	0.2kW	125kg/ 275 lb
KDS-300C	25m ³ /h		800(31.5)		300(11.8)				150kg/ 330 lb
KDS-500C	40m ³ /h	590(23.2)	950(37.4)		450(17.7)				230kg/ 507 lb
KDS-600C	50m ³ /h		1100(43.3)		600(23.6)				350kg/ 771 lb
KDS-800B	75m ³ /h	930(36.6)	1000(39.4)		680(26.7)				450kg/ 992 lb
KDS-900B	90m ³ /h		1150(45.2)		830(32.6)				550kg/ 1213 lb
KDS-1100BA	105m ³ /h	1150(45.2)	1000(39.4)		680(26.7)				600kg/ 1323 lb
KDS-1200BA	125m ³ /h		1150(45.2)	1100(43.3)	500(19.6)	830(32.6)		0.75kW	740kg/ 1631 lb

*Pre-test is available. **The Processing Capacity is presented as a guide. The listed values may drop depending on substances to process.

***KDS-1100BA/1200BA use the IE3 motor.

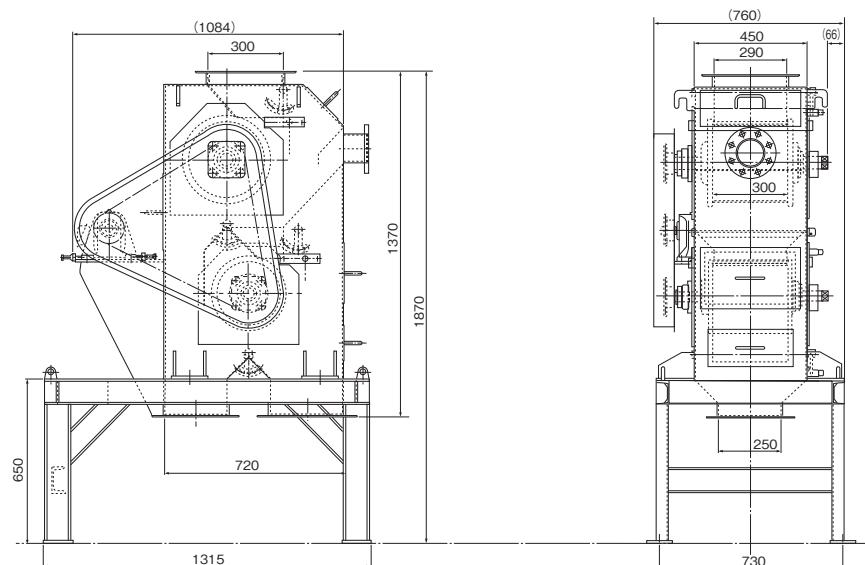


⟨KDS-B⟩



⟨KDS-C⟩

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

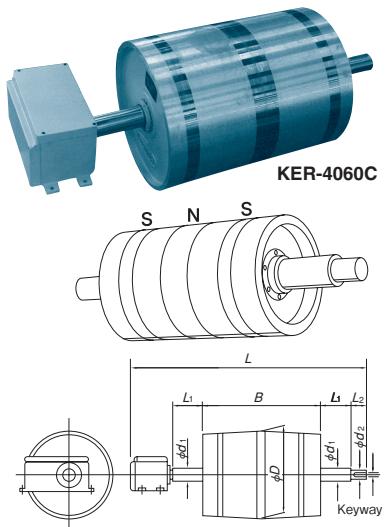


Model KER ELECTROMAGNETIC PULLEY

[Application]

These pulleys have been widely used in wastes processing systems and also used to remove iron from granular 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.

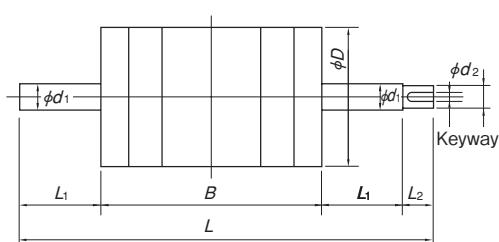
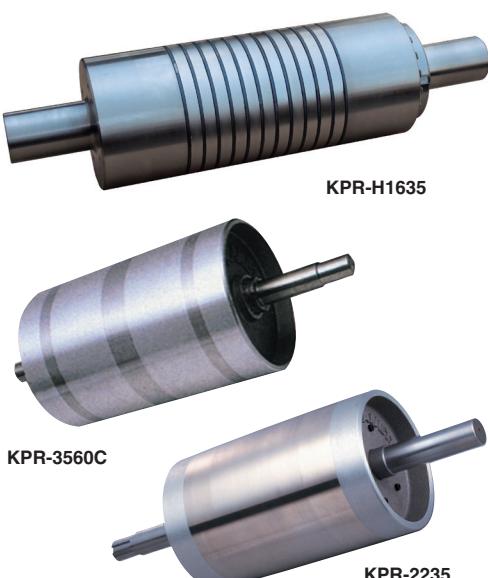


Model	Belt Width	Dimensions							Power Consumption	Mass	Applicable Rectifier
		ϕD	B	L	ϕd_1	ϕd_2	L_1	L_2			
KER-3030C	300(11.8)		350(13.7)	880(34.6)						300W	140kg/ 308 lb
KER-3035C	350(13.7)	300	400(15.7)	930(36.6)	50(1.96)	45(1.77)	130(5.11)	60(2.36)		360W	155kg/ 341 lb
KER-3040C	400(15.7)		450(17.7)	980(38.5)						400W	175kg/ 385 lb
KER-3045C	450(17.7)		500(19.6)	1030(40.5)						450W	195kg/ 429 lb
KER-3050C	500(19.6)		550(21.6)	1110(43.7)						490W	210kg/ 463 lb
KER-4040C	400(15.7)	400	450(17.7)	1030(40.5)	55(2.16)	50(1.96)	140(5.51)	70(2.75)		550W	380kg/ 837 lb
KER-4045C	450(17.7)		500(19.6)	1080(42.5)						620W	430kg/ 948 lb
KER-4050C	500(19.6)	400	550(21.6)	1140(44.8)	60(2.36)	55(2.16)				680W	475kg/ 1047 lb
KER-4060C	600(23.6)		650(25.5)	1240(48.8)						800W	560kg/ 1235 lb
KER-4075C	750(29.5)		820(32.2)	1430(56.3)	65(2.55)	60(2.36)				1000W	700kg/ 1543 lb
KER-5050C	500(19.6)	500	550(21.6)	1169(46.0)						950W	730kg/ 1609 lb
KER-5060C	600(23.6)	500	650(25.5)	1278(50.3)	70(2.75)	65(2.55)	160(6.29)			1000W	900kg/ 1984 lb
KER-5075C	750(29.5)	500	820(32.2)	1449(57.0)						1300W	1130kg/ 2491 lb
KER-5090C	900(35.4)		1000(39.4)	1649(64.9)						1500W	1300kg/ 2866 lb
KER-6060C	600(23.6)		650(25.5)	1299(51.1)	75(2.95)	70(2.75)	170(6.69)			1200W	1320kg/ 2910 lb
KER-6075C	750(29.5)	600	820(32.2)	1479(58.2)						1500W	1580kg/ 3483 lb
KER-6090C	900(35.4)		1000(39.4)	1679(66.1)	80(3.15)	75(2.95)	180(7.08)			1800W	1900kg/ 4189 lb
KER-7590C	900(35.4)		1810(71.2)							2800W	1800kg/ 3968 lb
KER-75100C	1000(39.4)	750	1100(43.3)	2020(79.5)	100(3.93)	90(3.54)	230(9.05)	180(7.08)		3400W	2200kg/ 4850 lb
KER-75120C	1200(47.2)	750	1300(51.1)	2170(85.4)	110(4.33)	95(3.74)	250(9.84)	200(7.87)		3800W	2600kg/ 5732 lb
KER-75150C	1500(59.0)		1600(62.9)	2570(101.2)			280(11.0)	250(9.84)		4200W	3100kg/ 6834 lb
KER-90100C	1000(39.4)	900	1100(43.3)	2050(80.7)						4300W	3000kg/ 6614 lb
KER-90120C	1200(47.2)	900	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)	900	1600(62.9)	2670(105.1)			300(11.8)	300(11.8)		5200W	4400kg/ 9700 lb
KER-100120C	1200(47.2)	1000	1300(51.1)	2490(98.0)			330(12.9)			5500W	4200kg/ 9259 lb
KER-100150C	1500(59.0)	1000	1600(62.9)	2900(114.2)	135(5.31)	110(4.33)	360(14.1)			6500W	5000kg/ 11023 lb
KER-120120C	1200(47.2)	1200	1300(51.1)	2490(98.0)	140(5.51)	120(4.72)	330(12.9)			6500W	5400kg/ 11905 lb
KER-120150C	1500(59.0)	1200	1600(62.9)	2900(114.2)	140(5.51)	120(4.72)	360(14.1)			7600W	6500kg/ 14330 lb
Note: The slip ring SRB-100 is used for 3030C - 4060C and SR-20 for 4075C and over.											

Model KPR PERMANENT MAGNETIC PULLEY

Environmentally friendly

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



[Application]

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

[Features]

- Powerful magnetic force. Its effect lasts almost perpetually.
- No power source is required to generate the magnetic force.
- Robust construction and easy handling and installation.
- A high magnetic force type exceeding the surface max. magnetic flux density 1.3 T (13000 G) is also available. (KPR-H16 Series) This pulley can also be used to sort and collect weak magnetic substances such as stainless steel from raw materials.

Model	Belt Width	Dimensions							Surface Max. Magnetic Flux Density	Mass
		ϕD	B	L	d_1	d_2	L_1	L_2		
KPR-H1633	350(13.7)		440(17.3)	670(26.3)	60(2.36)	—	100(3.93)	—	20(0.78) x 10(0.39)	1.3T (13000G) min.
KPR-H1640	400(15.7)	160	500(19.6)	730(28.7)	60(2.36)	—	100(3.93)	—		80kg/ 176 lb
KPR-H1645	450(17.7)		550(21.6)	780(30.7)						90kg/ 198 lb
KPR-2230	300(11.8)		350(13.7)	660(25.9)						95kg/ 209 lb
KPR-2235	350(13.7)	214	400(15.7)	710(27.9)	40(1.50)	35(1.37)			10(0.39) x 5(0.19)	45kg/ 99 lb
KPR-2240	400(15.7)	214	450(17.7)	760(29.9)						52kg/ 114 lb
KPR-2735	350(13.7)		400(15.7)	710(27.9)						68kg/ 149 lb
KPR-2740	400(15.7)	265	450(17.7)	760(29.9)	45(1.77)	40(1.50)	130(5.11)	50(1.96)	12(0.47) x 5(0.19)	77kg/ 169 lb
KPR-2745	450(17.7)		500(19.6)	810(31.8)						86kg/ 189 lb
KPR-3240	400(15.7)		450(17.7)	780(30.7)	50(1.96)	45(1.77)			100kg/ 220 lb	
KPR-3245	450(17.7)	315	500(19.6)	830(32.6)						110kg/ 242 lb
KPR-3250	500(19.6)	(13.7)	550(21.6)	880(34.6)	60(2.36)	55(2.16)				122kg/ 368 lb
KPR-3260	600(23.6)		650(25.5)	980(38.5)						135kg/ 297 lb
KPR-3540C	400(15.7)		450(17.7)	790(31.1)						140kg/ 308 lb
KPR-3545C	450(17.7)	350	500(19.6)	850(33.4)	55(2.16)	50(1.96)	140(5.51)			190kg/ 418 lb
KPR-3550C	500(19.6)	(13.7)	550(21.6)	900(35.4)						210kg/ 462 lb
KPR-3560C	600(23.6)		650(25.5)	1000(39.4)						230kg/ 507 lb
KPR-4045C	450(17.7)		500(19.6)	860(33.8)						280kg/ 617 lb
KPR-4050C	500(19.6)	400	550(21.6)	920(36.2)	60(2.36)	55(2.16)	145(5.70)			270kg/ 595 lb
KPR-4060C	600(23.6)	400	650(25.5)	1020(40.1)						300kg/ 661 lb
KPR-4075C	750(29.5)		820(32.2)	1200(47.2)						355kg/ 782 lb
KPR-5060C	600(23.6)		650(25.5)	1040(40.9)						450kg/ 992 lb
KPR-5075C	750(29.5)		820(32.2)	1210(47.6)	70(2.75)	65(2.55)	150(5.90)	90(3.54)	18(0.70) x 7(0.27)	480kg/ 1058 lb
KPR-5090C	900(35.4)		1000(39.4)	1400(55.1)						630kg/ 1388 lb
KPR-6075C	750(29.5)		820(32.2)	1300(51.1)	75(2.95)	70(2.75)	190(7.48)			750kg/ 1653 lb
KPR-6090C	900(35.4)	600	1000(39.4)	1500(59.0)	80(3.14)	75(2.95)			900kg/ 1984 lb	
KPR-60105C	1050(41.3)	600	1150(45.2)	1670(65.7)	90(3.54)					1070kg/ 2358 lb
KPR-60120C	1200(47.2)	600	1300(51.1)	1820(71.6)	85(3.34)					1230kg/ 2711 lb
KPR-7575C	750(29.5)		820(32.2)	1370(53.9)	95(3.74)					145kg/ 3196 lb
KPR-75105C	1050(41.3)	750	1150(45.2)	1700(66.9)	100(3.93)	90(3.54)				1200kg/ 2645 lb
KPR-75120C	1200(47.2)	750	1300(51.1)	1950(76.7)	110(4.33)	95(3.74)	150(5.90)		1650kg/ 3637 lb	
KPR-75140C	1400(55.1)	1500(59.0)	2150(84.6)	120(4.72)	100(3.93)	90(3.54)	250(9.84)	200(7.87)		1900kg/ 4188 lb
										2150kg/ 4739 lb

MAGNETIC SEPARATORS

Model KHDS HIGH-SPEED DRUM TYPE MAGNETIC SEPARATOR

MAGNETICS & EQUIPMENT FOR HEAVY OPERATION

LIFTING MAGNET

MAGBORE*

CHIP & SLUDGE CONVEYANCE EQUIPMENT

ENVIRONMENTAL EQUIPMENT

MAGNETIZER AND DEMAGNETIZER

MAGNETIC EQUIPMENT FOR CONVEYANCE

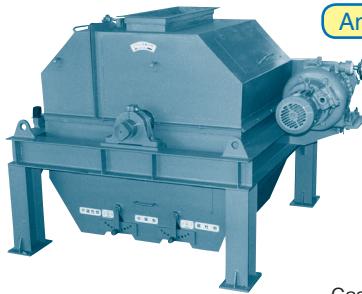
MAGNETIC SEPARATORS

POWERFUL MAGNETIC SEPARATORS

MEASURING TOOLS

MEASURING INSTRUMENTS

MAGNETIC MATERIALS



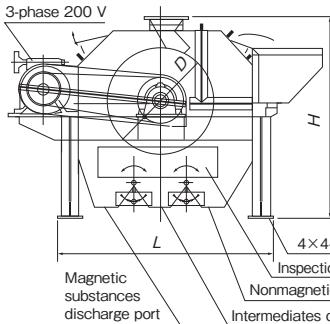
An example of KHDS fabrication



Gasification melting furnaces and slug processing

KHDS-30

Bayer cyclo variable speed changer
3-phase 200 V



Magnetic substances discharge port
Nonmagnetic substances discharge port
Intermediates discharge port

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.

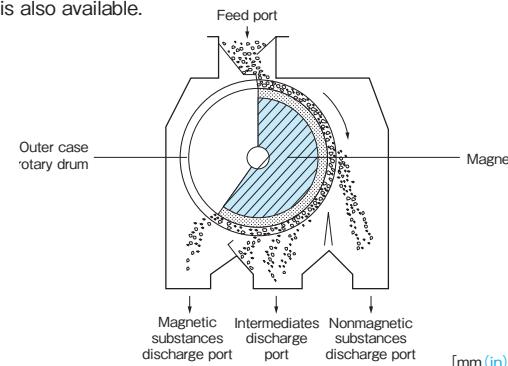
The effect of the magnetic force created by a unique pole layout together with adjustment of the centrifugal force by varying the rotation enables collection and separation of magnetized substances without taking in impurities.

[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	Processing Capacity	Dimensions			Drum ϕD	Mass
		B ₁	L	H		
KHDS-15	2.2-12.0t/h	900 (35.4) 1000 (39.4) 1150 (45.2) 1300 (51.1) 1500 (59.0) 1700 (66.9)	1470 (57.8) 1500 (59.0) 930 (36.6)	150 (5.90) 300 (11.8) 450 (17.7) 600 (23.6) 750 (29.5) 900 (35.4)	1500kg/3968 lb 2200kg/4850 lb 2600kg/5732 lb 3300kg/7275 lb 3600kg/7937 lb 4000kg/8818 lb	1800kg/3968 lb
KHDS-30	4.5-24.0t/h					2200kg/4850 lb
KHDS-45	6.7-36.0t/h					2600kg/5732 lb
KHDS-60	9.0-48.0t/h					3300kg/7275 lb
KHDS-75	11.0-60.0t/h					3600kg/7937 lb
KHDS-90	13.0-72.0t/h					4000kg/8818 lb

*The power source is 3-phase, 200 VAC.

■ Relation between amount to process and substances to process

In general, the processing amount varies depending on the specific gravity of substances to process and such processing conditions as the grain size, magnetized state, water content, etc.

■ Amount to process by KHDS-30 <Example>

Grain Size, etc.	Processing Amount
Grain size 15 - 6 mm	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)

■ 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 relatively smaller capacity "induction type KID" and "electromagnetic filter KIF" are also available.

Examples of fabrication of various recycling magnetic separators



Nonferrous metal separator



An example of fabrication of large electromagnetic drum

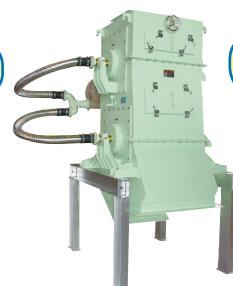


An example of fabrication of high-speed drum type magnetic separator

An example of fabrication of suspended permanent magnetic separator



An example of fabrication of high-magnetic force drum type magnetic separator

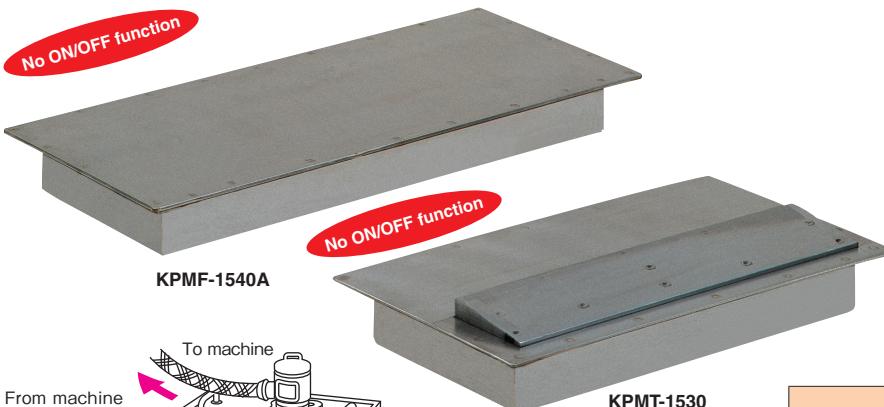


An example of fabrication of drum type magnetic separator



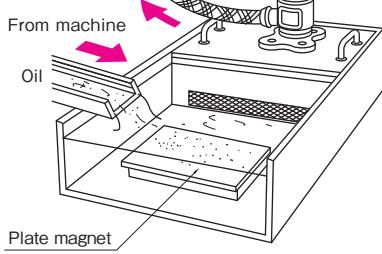
An example of fabrication of 2-stage drum type magnetic separator

Model KPM PLATE MAGNET

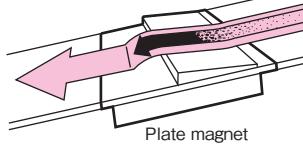


KPMF-1540A

KPMT-1530

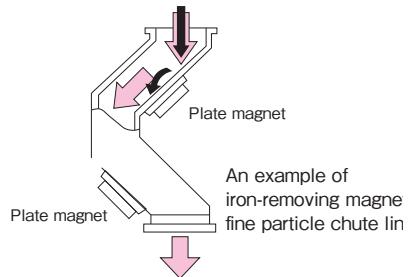


Separated fine iron particles stopped against the flow of materials.



Precautions for use

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



[Application]

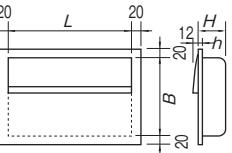
These magnets are installed on chutes and hoppers to attract and separate magnetic substances such as iron powder from raw materials in chemical, drug and other fine particle industries.

[Features]

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

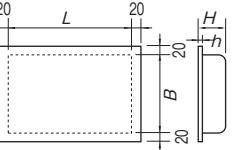
*Magnets with a grip and hinge are available optionally upon request.

Model KPMF



- The whole surface is made of stainless steel (SUS304).
- Large attractive force over a long distance.
- The flange area can be worked on.
- A type having a flange in a different position is also available.

Model KPMT



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

Standard models

Flat type

Model	Dimensions				Attraction Capacity (Distance)			Mass	[mm (in)]
	B	L	H	h	15-cm nail	M10 nut	M10×25 bolt		
KPMF-1515A		150 (5.90)						6kg/ 13.2 lb	
KPMF-1530A		300 (11.8)						11kg/ 24.2 lb	
KPMF-1535A	150	350 (13.7)			42.2 (0.12)	80-100 (3.15-3.93)	40- 60 (1.57-2.36)	60- 80 (2.36-3.15)	
KPMF-1540A		400 (15.7)						13kg/ 28.6 lb	
KPMF-1545A		450 (17.7)						15kg/ 33.0 lb	
KPMF-1550A		500 (19.6)						17kg/ 37.4 lb	
KPMF-1560A		600 (23.6)						18kg/ 39.6 lb	
KPMF-2020A		200 (7.87)						22kg/ 48.5 lb	
KPMF-2030A		300 (11.8)							
KPMF-2040A	200	400 (15.7)							
KPMF-2050A		500 (19.6)							
KPMF-2060A		600 (23.6)							
KPMF-2080A		800 (31.5)							
KPMF-3030A		300 (11.8)							
KPMF-3040A		400 (15.7)							
KPMF-3050A	300	500 (19.6)							
KPMF-3060A		600 (23.6)							
KPMF-3080A		800 (31.5)							

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

With magnetic plate

Model	Dimensions				Attraction Capacity (Distance)			Mass	[mm (in)]
	B	L	H	h	15-cm nail	M10 nut	M10×25 bolt		
KPMT-1515		150 (5.90)						7kg/ 15.0 lb	
KPMT-1530		300 (11.8)						12kg/ 26.4 lb	
KPMT-1540		400 (15.7)						16kg/ 35.2 lb	
KPMT-1550		500 (19.6)						20kg/ 44.0 lb	
KPMT-1560		600 (23.6)						24kg/ 52.9 lb	
KPMT-2020		200 (7.87)						14kg/ 30.8 lb	
KPMT-2030		300 (11.8)						21kg/ 46.3 lb	
KPMT-2040	200	400 (15.7)						29kg/ 63.9 lb	
KPMT-2050		500 (19.6)						35kg/ 77.1 lb	
KPMT-2060		600 (23.6)						42kg/ 92.5 lb	
KPMT-3030		300 (11.8)						32kg/ 70.5 lb	
KPMT-3040		400 (15.7)						42kg/ 92.5 lb	
KPMT-3050		500 (19.6)						53kg/ 116.8 lb	
KPMT-3060		600 (23.6)						63kg/ 138.9 lb	
KPMT-3080		800 (31.5)						84kg/ 185.2 lb	

*Surface magnetic flux density 250 mT (2500 G) max.

Powerful models Powerful plate magnets using rare earth magnet

Flat type

Model	Dimensions				Attraction Capacity (Distance)			Mass	[mm (in)]
	B	L	H	h	15-cm nail	M10 nut	M10×25 bolt		
KPMF-H1510		100 (3.93)						3.0kg/ 6.61 lb	
KPMF-H1515	150	150 (5.90)						4.5kg/ 9.92 lb	
KPMF-H1520		200 (7.87)						5.5kg/ 12.1 lb	
KPMF-H1530		300 (11.8)						8.5kg/ 18.0 lb	
KPMF-H2020		200 (7.87)						8.0kg/ 17.6 lb	
KPMF-H2025	200	250 (9.84)						10.0kg/ 22.0 lb	
KPMF-H2030		300 (11.8)						11.5kg/ 25.0 lb	
KPMF-H2040		400 (15.7)						15.5kg/ 34.1 lb	

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

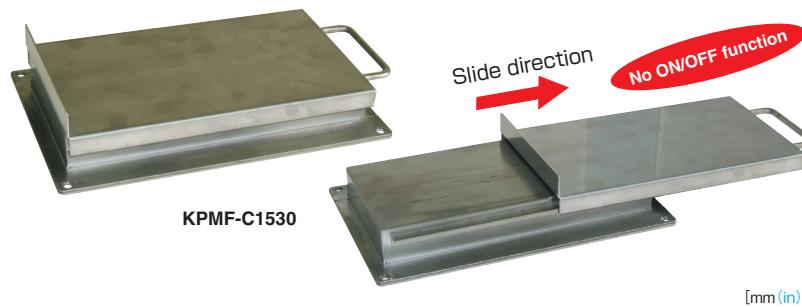
With magnetic plate

Model	Dimensions				Attraction Capacity (Distance)			Mass	[mm (in)]
	B	L	H	h	15-cm nail	M10 nut	M10×25 bolt		
KPMT-H1510		100 (3.93)						4.0kg/ 8.80 lb	
KPMT-H1515	150	150 (5.90)						6.0kg/ 13.2 lb	
KPMT-H1520		200 (7.87)						8.0kg/ 17.6 lb	
KPMT-H1530		300 (11.8)						12.0kg/ 26.4 lb	
KPMT-H2020		200 (7.87)						10.0kg/ 22.0 lb	
KPMT-H2025	200	250 (9.84)						12.5kg/ 27.5 lb	
KPMT-H2030		300 (11.8)						15.0kg/ 33.0 lb	
KPMT-H2040		400 (15.7)						20.0kg/ 44.0 lb	

*Surface magnetic flux density 500 mT (5000 G) max.

MAGNETIC SEPARATORS

Model KPMF-C PLATE MAGNET WITH IRON POWDER REMOVAL COVER



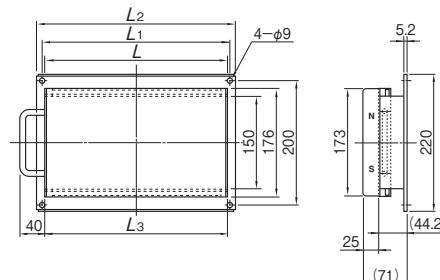
KPMF-C1530

[Application]

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

[Features]

- Attracted magnetic substances can be released and cleaned off very easily by pulling out the iron-removal cover.



Model	Dimensions				Mass
	L	L ₁	L ₂	L ₃	
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

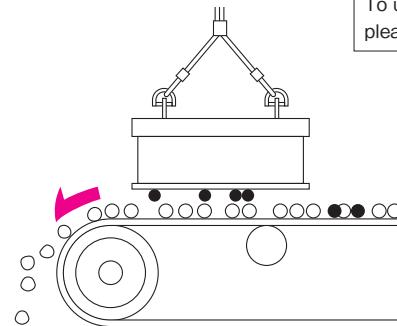
*Surface max. magnetic flux density ... Magnet surface: 130 mT (1300 G) Cover surface: 100 mT (1000 G)

Model KPM SUSPENDED PLATE MAGNET



KPMJ-3040A

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



[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 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 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

Model	Dimensions					Attraction Capacity (Distance)			Mass
	B	L	b	ℓ	H	15-cm nail	M10 nut	M10×25 bolt	
KPMD-2525A		250(9.84)		170(6.69)	64(2.52)	130-170(5.11-6.69)	60-90(2.36-3.54)	100-130(3.93-5.11)	22kg/ 48.5 lb
KPMD-2530A		300(11.8)		220(8.66)					27kg/ 59.5 lb
KPMD-2540A	250(9.84)	400(15.7)	170(6.69)	320(12.6)	82(3.22)	160-200(6.29-7.87)	80-120(3.15-4.72)	110-140(4.33-5.51)	35kg/ 77.1 lb
KPMD-2550A		500(19.6)		420(16.5)					44kg/ 97.0 lb
KPMD-2560A		600(23.6)		520(20.4)					54kg/ 119.0 lb
KPMD-3530A		300(11.8)		220(8.66)					49kg/ 108.0 lb
KPMD-3540A	350(13.7)	400(15.7)	270(10.6)	320(12.6)					64kg/ 141.1 lb
KPMD-3550A		500(19.6)		420(16.5)					80kg/ 176.4 lb
KPMD-3560A		600(23.6)		520(20.4)					100kg/ 220.5 lb

Model KPMJ

KPMJ-3030A	300(11.8)	200(7.87)	200(7.87)	159(6.25)	180-250(7.08-9.84)		120-160(4.72-6.29)	82kg/180.7 lb
KPMJ-3040A	300(11.8)	400(15.7)	260(10.2)					112kg/246.9 lb
KPMJ-3050A		500(19.6)	360(14.1)					150kg/330.6 lb
KPMJ-4040B		400(15.7)	250(9.84)					90kg/198.4 lb
KPMJ-4060B	400(15.7)	600(23.6)	380(14.9)	124(4.87)	300-400(11.8-15.7)		150-200(5.90-7.87)	140kg/308.7 lb
KPMJ-4080B		800(31.5)	500(19.6)					185kg/407.9 lb
KPMJ-5065B	490(19.2)	650(25.5)	300(11.8)	400(15.7)	129(5.07)	400-450(15.7-17.7)	130-140(5.11-5.51)	230kg/507.0 lb
KPMJ-6580B	650(25.5)	800(31.5)	400(15.7)	600(23.6)	159(6.25)			400kg/881.8 lb

*Larger sizes are available. Please contact us.

<Suspended permanent magnet>

- Suspended above a chute of a conveyor belt to attract and remove iron pieces.
- Larger attraction distance than KPMF.
- Stainless steel (SUS304) surface.
- Eyebolts in four places. (M8 eyebolts on KPMD-25** and M10 eyebolts on KPMD-35**)

Model KPMJ

L (Allowable belt width)	B	H	Attractive face

<Suspended permanent magnet>

- Suspended above a chute of a conveyor belt to attract and remove iron pieces.
- More powerful than KPMD.
- Stainless steel (SUS304) surface.
- Suspension hinges in four places. (Diameter = φ20)

Model KPM-BW PLATE MAGNET FOR TANK CLEANING



Efficient collection of sludge!

An example of collecting sludge

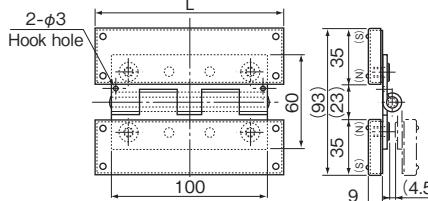


[Application]

Most suitable for collecting sludge in a circulating liquid tank.

[Features]

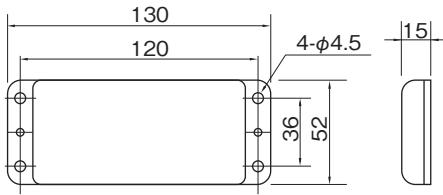
- This model is provided with a hinge to allow installation in various places such as a corner in a tank or overflow area of the partition plate.
- By attaching a wire or chain through a hook hole of the hinge, it becomes easy to take out the magnet from inside a tank.
- Not only deposited sludge but also floating sludge can be collected.



[mm(in)]

Model KPM SMALL PLATE MAGNET

Simple type



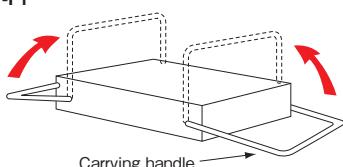
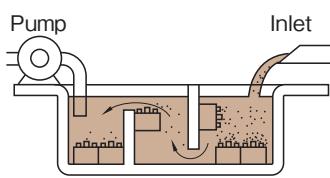
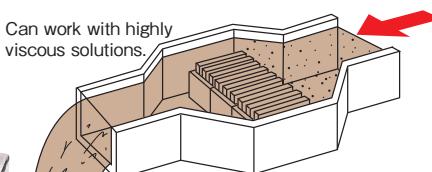
[Application]

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

*The holding power is based on a test piece of SS400, 6 mm thick, ground surface held on the whole face.

Model PF MAGFIN*

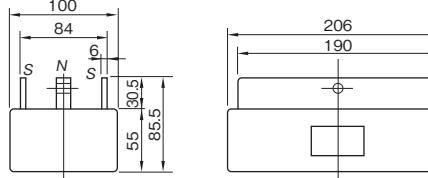


[Application]

Suitable for removing iron from liquids (cooling liquid, electric discharge machining liquid, etc.) in tanks and passages and as an attracting plate for removing iron in granular materials. This can be used both dry and wet.

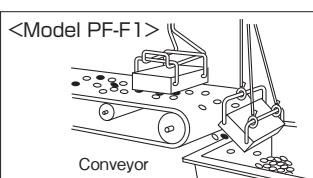
[Features]

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



[mm(in)]

Model	Dimensions	Surface Max. Magnetic Flux Density	Mass
PF-F1	206(8.11) × 100(3.93) × 86(3.38)	120mT (1200G)	5.7kg/12.6 lb



Not allowed in liquid

[Application]

Useful as a small magnet plate to catch and collect iron pieces. A powerful type using a rare earth magnet is also available.

Model	Dimensions	Surface Max. Magnetic Flux Density	Mass
PF-F1	120(4.72) × 90(3.54) × 30(1.18)	120mT (1200G)	1.5kg/ 3.3 lb
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)		0.7kg/ 1.5 lb

MAGNETIC SEPARATORS

Model KGM / KGM-VM MAGNETIC BAR (STANDARD/POWERFUL)



KGM-25

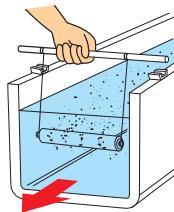
Caution:

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

[mm (in)]

Standard type

Model	Length	Diameter	Surface Max. Magnetic Flux Density	Working Temp. Upper 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)				0.65kg/1.43 lb
KGM-35	343 (13.5)				0.8 kg/1.76 lb
KGM-40	393 (15.4)	φ25 (0.98)	130mT (1300G)	Approx. 60°C (140° F)	0.9 kg/1.98 lb
KGM-45	442 (17.4)				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



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

An example of usage in passage

Powerful type

Usable in liquid

[mm (in)]

Model	Length	Diameter	Surface Max. Magnetic Flux Density	Working Temp. Upper Limit	Mass
KGM-VM10	95 (3.74)				0.7kg/1.54 lb
KGM-VM15	145 (5.70)				0.9kg/1.98 lb
KGM-VM20	194 (7.63)				1.1kg/2.42 lb
KGM-VM25	244 (9.60)	φ25 (0.98)			1.2kg/2.64 lb
KGM-VM30	295 (11.6)		500mT (5000G)	Approx. 80°C (176° F)	1.4kg/3.08 lb
KGM-VM35	343 (13.5)				1.6kg/3.52 lb
KGM-VM40	393 (15.4)				1.7kg/3.74 lb
KGM-VM50	493 (19.4)				1.9kg/4.18 lb
KGM-VM60	592 (23.3)				2.1kg/4.62 lb

*The tapped holes are 2-M5, depth 6. *Casing material: SUS304

*The tapped holes are 2-M6, depth 7. *Casing material: SUS304

Model KGM-H POWERFUL SQUARE MAGNETIC BAR



KGM-H20

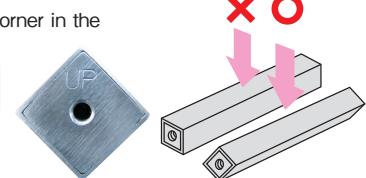
A magnetic bar used in a powerful grid type magnet. This bar is available individually also. Casing is made of stainless steel.

How to use

Set a square magnetic bar with its corner in the flow direction of materials as shown.

Not allowed in liquid

*The corner marked by "UP" must be up.



[mm (in)]

Model	Length	Side Length □	Surface Max. Magnetic Flux Density	Working Temp. Upper Limit	Mass
KGM-H20	195 (7.67)	22 (0.86)			0.6 kg/1.32 lb
KGM-H25	245 (9.64)				0.75kg/1.65 lb
KGM-H30	295 (11.6)				0.9 kg/1.98 lb
KGM-H35	345 (13.5)				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. *Casing material: SUS304

Model KGM-T HEAT-RESISTANT MAGNETIC BAR

These magnetic bars are heat resistant and capable of maintaining the magnetic force and functioning at certain high temperature.



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

Model KGM-S MAGNETIC BAR WITH STAND



KGM-S20

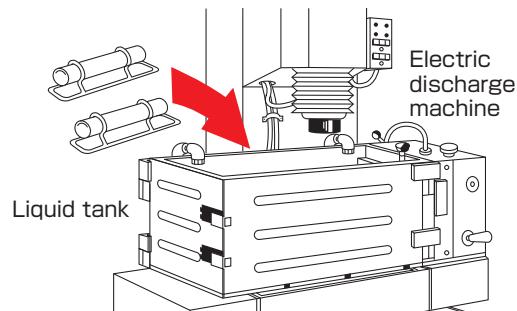
[Application]

This magnetic bar is equipped with a stand which permits it to be placed in a tank to remove iron in liquid. We recommend that the bar be packed in a polyethylene or vinyl bag beforehand for convenience of removal of iron sticking to the bar.

[mm (in)]

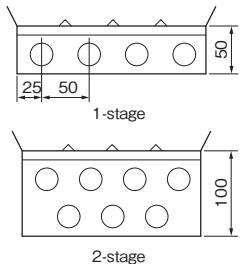
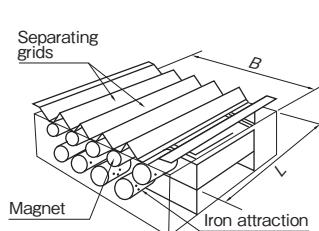
Model	Magnetic Bar			Stand			Mass
	Length	Dia.	Surface Max. Magnetic Flux Density	Height	Depth	Width	
KGM-S20	194 (7.63)	φ25 (0.98)	130mT (1300G)	54 (2.12)	60 (2.36)	170 (6.69)	約0.6kg/1.32 lb

*Outer material : SUS304



Model KGM RECTANGULAR GRID TYPE MAGNETIC BAR UNIT

KGM-2025



A powerful type of 500 mT (5000 G) is also available.

[Application]

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

[Features]

- The grid layout ensures the very high iron removal performance.

- Easy installation for a wide range of applications.

- The two-stage model having a higher iron removal capacity is also available.

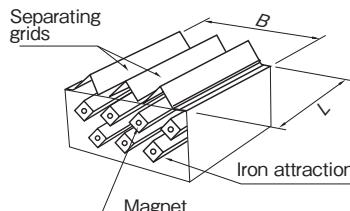
[mm (in)]

Model	Type	Surface Max. Magnetic Flux Density	Processing Capacity	No. of Magnets	Dimensions		Mass
					B	L	
KGM-2020	1-stage			4			3.5kg/ 7.7 lb
KGM-2020W	2-stage	6m ³ /h		7	200	(7.87)	6.0kg/13.2 lb
KGM-2025	1-stage			4			4.2kg/ 9.2 lb
KGM-2025W	2-stage	8m ³ /h		7	250	(9.84)	6.5kg/14.3 lb
KGM-2525	1-stage			5			5.0kg/11.0 lb
KGM-2525W	2-stage	10m ³ /h		9	250	(9.84)	8.4kg/18.5 lb
KGM-2530	1-stage			5			5.6kg/12.3 lb
KGM-2530W	2-stage	12m ³ /h		9	300	(11.8)	9.5kg/21.0 lb
KGM-3030	1-stage			6			6.7kg/14.7 lb
KGM-3030W	2-stage	14m ³ /h		11	300	(11.8)	11.2kg/24.6 lb
KGM-3040	1-stage			6			9.0kg/19.8 lb
KGM-3040W	2-stage	18m ³ /h		11	400	(15.7)	15.7kg/34.6 lb
KGM-4040	1-stage			8			11.0kg/24.2 lb
KGM-4040W	2-stage	24m ³ /h		15	400	(15.7)	19.8kg/43.6 lb
KGM-4050	1-stage			8			13.1kg/28.8 lb
KGM-4050W	2-stage	30m ³ /h		15	500	(19.6)	23.6kg/52.0 lb

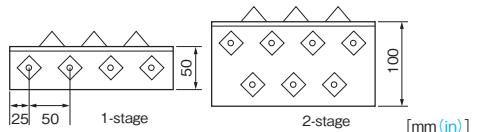
※ Casing material: SUS304

Model KGM-H POWERFUL RECTANGULAR GRID TYPE MAGNETIC BAR UNIT

KGM-H2025

**[Application]**

Suitable for removing iron from granular materials by a strong magnetic force. The two-stage model having a higher iron-removal capacity is also available.



Model	Type	Surface Max. Magnetic Flux Density	Processing Capacity	No. of Magnets	Dimensions		Mass
					B	L	
KGM-H2020	1-stage			4			3.5kg/ 7.22 lb
KGM-H2020W	2-stage			7	200	(7.87)	6.5kg/14.33 lb
KGM-H2025	1-stage			4			4.5kg/ 9.92 lb
KGM-H2025W	2-stage			7	250	(9.84)	8.0kg/17.67 lb

※ Casing material: SUS304

Model KGM-C ROUND GRID TYPE MAGNETIC BAR UNIT

KGM-CF25 (With outer frame)



KGM-C25 (Without outer frame)

A powerful type of 500 mT (5000 G) is also available.

[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.

[mm (in)]

Model	Type	Surface Max. Magnetic Flux Density	Processing Capacity	No. of Magnets	Dimensions		Mass
					Frame dia.	Height	
KGM-C20	Without outer frame			4	(φ200 (7.87))	55 (2.16) 60 (2.36)	2.1kg/4.63 lb 2.3kg/5.07 lb
KGM-CF20	With outer frame						
KGM-C25	Without outer frame			4	(φ250 (9.84))	55 (2.16) 60 (2.36)	3.3kg/7.27 lb 3.6kg/7.90 lb
KGM-CF25	With outer frame			5			

※ Casing material: SUS304

Model KGM-HC POWERFUL ROUND GRID TYPE MAGNETIC BAR UNIT

KGM-HCF20 (With outer frame)



KGM-HC20 (Without outer frame)

Model	Type	Surface Max. Magnetic Flux Density	Processing Capacity	No. of Magnets	Dimensions		Mass
					Frame dia.	Height	
KGM-HC20	Without outer frame			3	(φ200 (7.87))	60 (2.36)	1.6kg/3.52 lb 2.0kg/4.41 lb
KGM-HCF20	With outer frame						
KGM-HC25	Without outer frame			4	(φ250 (9.84))	60 (2.36)	2.0kg/4.41 lb 2.4kg/5.29 lb
KGM-HCF25	With outer frame						

※ Casing material: SUS304