

For Foods and Chemicals. Supporting Higher Purity of Liquids and Bulk Materials.

In recent years, a need to remove foreign matter, to improve purity and to increase the safety level has become an essential requirement in foods making and processing. Kanetec has been offering an assistance and contribution in the fields of separating and eliminating magnetic foreign matter by utilizing its superb magnetic technology. Kanetec also makes full use of its application technology of strong magnetic force rare earth magnets to enable collection of weak magnetic substances. The line-up of separators has been expanded to meet various requirements and operations including flowing liquids and viscous materials, shapes of flowing foods, joint specifications, forced feed and high temperature to back up the food processing system.

For powder and bulk materials

Model	Examples of application
PCMG-2530	Candy raw materials, coffee beans, herb medicines
PCMG-C25	Pickled vegetables, tablets, plastic pellets
PCMG-C20A	Soybeans, peppers, powder soup
PCMG-AC15	Frying flour, powder milk, titanium powder
PCMG-A1611W-S	Dry granular materials
PCMG-A2323	Adzuki beans, flavored rice sprinkles, chemicals
PCMG-A1212	Spices, buck wheat flour, sesame
PCMG-T2020W	Starch, soap, plastic pellets
PCMG-U2525M-S	Baked salt
PCMG-A7530S	Boiled beans, dry aspidia (<i>menma</i>), sugar materials on conveyor
CPM	<i>Konjak</i> (devil's-tongue) flour, grape sugar powder, fertilizer
PCMP-150W-S	Wheat flour, dogtooth violet starch, feed
PCMP-UD200W-S	Wheat flour
PCMP-300	Spice materials, gunpowder, chemicals
PCMP-AR1222	Curry powder, powder <i>wasabi</i> (Japanese horseradish), spicery
PCMD-1630	Polished rice, barley & wheat, beans, coffee beans
PCMN-TF1225-S	<i>Ita Nori</i> (laver)
PCMH2-UD30-S	Wheat flour
PCMR-50-S	Dry granular materials

Features

- High grade finish of sanitary specification.
- Models corresponding to various sizes are available.
- With a strong magnet having a property value of 1,200 mT (12 kG) or 1,350 mT (13.5 kG) or over built in, a strong magnetic force of a surface maximum magnetic flux density of 800 mT (8 kG) or 1,000 mT (10 kG) or over collects iron and stainless steel particles mixed in raw materials.
- As permanent magnets of which the strong magnetic force lasts almost perpetually are used, the running cost can be reduced significantly.
- Models that can be installed in fluid are also available.

For viscous materials and liquids

Model	Examples of application
PCML-10-S	Honey, ra yu, fermented soybean <i>tare</i>
PCML-T15	Dairy products, ketchup, sausage
PCMS-T15	Mayonnaise, steak sauce, paste
PCMY	Noodle <i>tsuyu</i> , sauce, syrup
PCMH-T15	Curry roux, jam, doubanjiang
PCMH2-T15	Soup, fluid egg, liquid spice
PCMH-T20	Juice containing flesh of fruit, <i>miso</i> , minced meat
PCMH-25	Juice, <i>miso</i> , soy sauce, minced meat
PCMH-A100-S	Pulp liquid
PCMF	Chocolate, cream

Features

- High grade finish of sanitary specification.
- Models of various sizes are available in accordance with mounting pipe diameters.
- With a strong magnet having a property value of 1,200 mT (12 kG) or 1,350 mT (13.5 kG) or over built in, a strong magnetic force of a surface maximum magnetic flux density of 800 mT (8 kG) or 1,000 mT (10 kG) or over collects iron and stainless steel particles mixed in raw materials.
- As permanent magnets of which the strong magnetic force lasts almost perpetually are used, the running cost can be reduced significantly.
- Compact, requiring a small installation space. Easy and simple operation (periodical removal of caught iron).
- A heat-resistant, powerful type is also available that can be used with high temperature fluids continuously without significant deterioration.



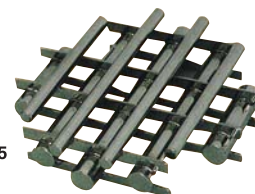
PCMB-20



PCMB2-J20



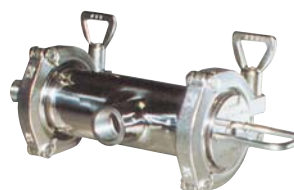
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PCMG-C25



PCMG-C20A



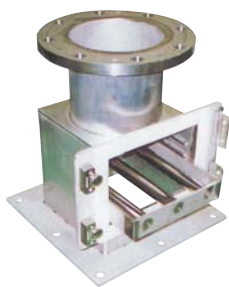
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PCML-15



PCMS-T15



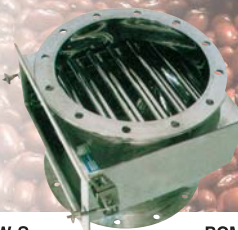
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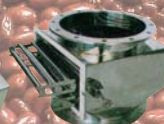
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PCMP-UD200W-S



PCMP-300

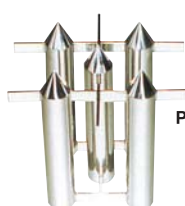


PCMG-A2323

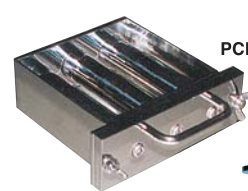
PCMG-T2020W



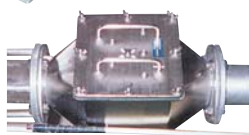
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PCMG-AC15



PCMG-A1212-S



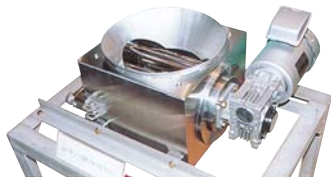
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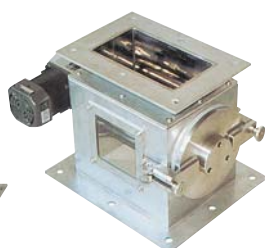
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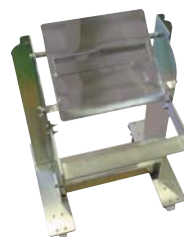
CPM



PCMP-AR



PCMP-AR1222



PCMN-TF1225-S



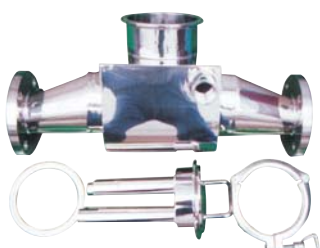
PCMG-A7530-S



PCMH2-UD30-S



PCMY



PCMF



PCMH-T15



PCMH-25



PCMH-A100-S



PCMH-T20



PCMH-T15



Other models are also available upon request.

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SI Unit — ①

■ The magnetic flux density used to be expressed by “G” (Gauss), but in the SI unit system, it is expressed by “T” (Tesla).

$$1\text{T}=10,000\text{G}$$

■ In this catalog, a unit of “mT” (milli-Tesla) is used.

$$1\text{mT}=10\text{G}$$

SI Unit — ②

■ The pressure used to be expressed by “kgf/cm²” (kilogram force per square centimeter), but in the SI unit system, it is expressed by “Pa” (Pascal).

$$1\text{Pa}=1.01972\times 10^{-5}\text{kgf/cm}^2$$

■ In this catalog, a unit of “kPa” (Kilo Pascal) is used.

$$100\text{kPa}\div 1\text{kgf/cm}^2$$

■ The viscosity used to be expressed by “P” (Poise). In particular, since the viscosity of water at 20°C is about 1 cP (Centi-Poise), “cP” has been preferred, but in the SI unit system, it is expressed by “Pa·s” (Pascal Second).

$$1\text{Pa}\cdot\text{s}=10\text{P}$$

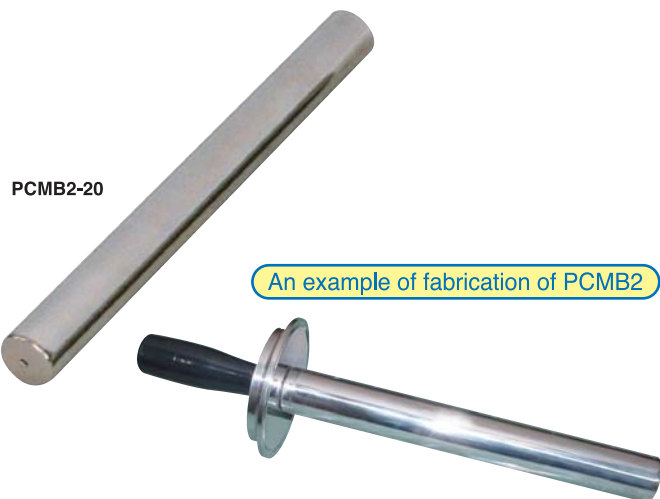
■ In this catalog, a unit of “mPa·s” (milli-Pascal Second) is used.

$$1\text{mPa}\cdot\text{s}=0.01\text{P}(=1\text{cP})$$

Comparison of Model PCMB Sanitary Magnetic Bars

Type	Model	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Remarks
Powerful	PCMB	0.8Tesla	80°C	Standard type
Fine pitch	PCMB-AM	1.0Tesla		Pole area increased by 1.5 times. Catch amount and collection rate increased.
Super powerful	PCMB-A PCMB-UA	1.2Tesla		
Heat-resistant powerful	PCMB-T	0.8Tesla	240°C	Highest working temperature upper limit in this Series.
Semi heat-resistant	PCMB-QT		150°C	Low cost type.
Wear resistant	PCMB-J	1.3Tesla	80°C	Highly resistant to wear and corrosion and longer life.
Double-type	PCMBD-A	0.8Tesla		Double-type for easy cleaning of attracted iron powder.

Model PCMB SANITARY TYPE MAGNETIC BAR



An example of fabrication of PCMB2

[Application]

Suitable for installation as an iron-removing gate in bulk materials transfer ducts or fluid passages and tanks. Can be incorporated freely to expand a range of applications.

[Features]

- High grade finish of sanitary specification.
- Various lengths available for desired combination.
- These powerful bars employ a powerful rare earth magnet having a property value of 1.2 T (12,000 G) or 1.35 T (13,500 G) or over and the surface maximum magnetic flux density is 0.8 T (8,000 G) or 1 T (10,000 G).
- Since a permanent magnet of which the strong magnetic force is maintained for almost perpetually is used, the running cost can be reduced significantly.
- These bars are water-tight and thus can be installed in fluid.
- For a higher rate of removal of weak magnetic metallic powder, a type having a surface magnetic flux density of 1.2 T (12,000 G), Model PCMB-U, is also available.
- Special sizes are also available. Please contact us.

Powerful magnetic bar

[mm (in.)]

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
Without tapped hole	With tapped hole	Length	Diameter	Material	Surface finish				
PCMB-10	PCMB2-10	95 (3.74)	φ25 ^{*1} (0.98)	SUS304	#400 buffed	Nd rare earth type Property value 1.2T (12,000G)	0.8T (8000G)	80°C (176°F)	0.35kg/0.77 lb
PCMB-15	PCMB2-15	145 (5.70)							0.5 kg/1.10 lb
PCMB-20	PCMB2-20	194 (7.63)							0.7 kg/1.50 lb
PCMB-25	PCMB2-25	244 (9.60)							0.85kg/1.87 lb
PCMB-30	PCMB2-30	295 (11.6)							1.05kg/2.31 lb
PCMB-35	PCMB2-35	343 (13.5)							1.2 kg/2.64 lb
PCMB-40	PCMB2-40	393 (15.4)							1.4 kg/3.08 lb
PCMB-50	PCMB2-50	493 (19.4)							1.75kg/3.85 lb
PCMB-60	PCMB2-60	592 (23.3)							2.1 kg/4.63 lb

※ A casing pipe of SUS316 is also available.

※ 1 A casing pipe of φ19 is also available.

※ The tapped holes are M6-P1.0 and 7 mm deep, located in the center on both end faces.

※ In order to increase the surface magnetic flux density, the wall thickness of the pipe needs to be decreased. If it is decreased, however, the strength may drop or the pipe may deform. Thus, for the safety reason, pipes of thickness thinner than specified above will not be manufactured.

Fine pitch powerful magnetic bar

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
Without tapped hole	With tapped hole	Length	Diameter	Material	Surface finish				
PCMB-AM10	PCMB2-AM10	95 (3.74)	φ25.1 (0.99)	SUS316L	#400 buffed	Nd rare earth type	1T (10000G)	80°C (176°F)	0.3kg/0.66 lb
PCMB-AM15	PCMB2-AM15	145 (5.70)							0.5kg/1.10 lb
PCMB-AM20	PCMB2-AM20	194 (7.63)							0.7kg/1.50 lb
PCMB-AM25	PCMB2-AM25	244 (9.60)				Property value 1.35T (13,500G)			0.9kg/1.98 lb
PCMB-AM30	PCMB2-AM30	295 (11.6)							1.1kg/2.42 lb
PCMB-AM35	PCMB2-AM35	343 (13.5)							1.2kg/2.64 lb
PCMB-AM40	PCMB2-AM40	393 (15.4)							1.4kg/3.08 lb
PCMB-AM50	PCMB2-AM50	493 (19.4)							1.8kg/3.96 lb
PCMB-AM60	PCMB2-AM60	592 (23.3)							2.1kg/4.63 lb

※A casing pipe of SUS316 is also available.

※The tapped holes are M6-P1.0 and 7 mm deep, located in the center on both end faces.

※In order to increase the surface magnetic flux density, the wall thickness of the pipe needs to be decreased. If it is decreased, however, the strength may drop or the pipe may deform. Thus, for the safety reason, pipes of thickness thinner than specified above will not be manufactured.

Super powerful magnetic bar

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
Without tapped hole	With tapped hole	Length	Diameter	Material	Surface finish				
PCMB-A20	PCMB2-A20	194 (7.63)	φ25 (0.98)	SUS304	#400 buffed	Nd rare earth type	1T (10000G)	80°C (176°F)	0.5 kg/1.10 lb
PCMB-A25	PCMB2-A25	244 (9.60)				0.55kg/1.21 lb			
PCMB-A30	PCMB2-A30	295 (11.6)				0.65kg/1.43 lb			
PCMB-A35	PCMB2-A35	343 (13.5)				0.8 kg/1.76 lb			
PCMB-A40	PCMB2-A40	393 (15.4)				0.9 kg/1.98 lb			
PCMB-A50	PCMB2-A50	493 (19.4)				1.3 kg/2.86 lb			
PCMB-A60	PCMB2-A60	592 (23.3)	φ25.1 (0.99)	SUS316L	#400 buffed	Nd rare earth type	1.2T (12000G)	80°C (176°F)	1.6 kg/3.52 lb
PCMB-U10A	PCMB2-U10A	95 (3.74)				0.3 kg/0.66 lb			
PCMB-U15A	PCMB2-U15A	145 (5.70)				0.5 kg/1.10 lb			
PCMB-U20A	PCMB2-U20A	194 (7.63)				0.7 kg/1.50 lb			
PCMB-U25A	PCMB2-U25A	244 (9.60)				0.9 kg/1.98 lb			
PCMB-U30A	PCMB2-U30A	295 (11.6)				1.1 kg/2.42 lb			
PCMB-U35A	PCMB2-U35A	343 (13.5)				1.2 kg/2.64 lb			
PCMB-U40A	PCMB2-U40A	393 (15.4)				1.4 kg/3.08 lb			
PCMB-U50A	PCMB2-U50A	493 (19.4)				1.8 kg/3.96 lb			
PCMB-U60A	PCMB2-U60A	592 (23.3)				2.1 kg/4.63 lb			

※A casing pipe of SUS316 is also available. (PCMB-A type)

※The tapped holes are M6-P1.0 and 7 mm deep, located in the center on both end faces.

※In order to increase the surface magnetic flux density, the wall thickness of the pipe needs to be decreased. If it is decreased, however, the strength may drop or the pipe may deform. Thus, for the safety reason, pipes of thickness thinner than specified above will not be manufactured.

※A heat-resistant type (upper limit 240°C) is also available.

Heat-resistant powerful magnetic bar

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass		
Without tapped hole	With tapped hole	Length	Diameter	Material	Surface finish						
PCMB-T10	PCMB2-T10	95 (3.74)	φ25 (0.98)	SUS304	#400 buffed	Nd rare earth type	0.8T (8000G)	240°C (464°F)	0.35kg/0.77 lb		
PCMB-T15	PCMB2-T15	145 (5.70)							0.5 kg/1.10 lb		
PCMB-T20	PCMB2-T20	194 (7.63)							0.7 kg/1.50 lb		
PCMB-T25	PCMB2-T25	244 (9.60)				Property value 1.1T (11,000G)			0.85kg/1.87 lb		
PCMB-T30	PCMB2-T30	295 (11.6)							1.05kg/2.31 lb		
PCMB-T35	PCMB2-T35	343 (13.5)							1.2 kg/2.64 lb		
PCMB-T40	PCMB2-T40	393 (15.4)							1.4 kg/3.08 lb		
PCMB-T50	PCMB2-T50	493 (19.4)							1.75kg/3.85 lb		
PCMB-T60	PCMB2-T60	592 (23.3)							2.1 kg/4.63 lb		

※A casing pipe of SUS316 is also available.

※The tapped holes are M6-P1.0 and 7 mm deep, located in the center on both end faces.

※In order to increase the surface magnetic flux density, the wall thickness of the pipe needs to be decreased. If it is decreased, however, the strength may drop or the pipe may deform. Thus, for the safety reason, pipes of thickness thinner than specified above will not be manufactured.

Semi heat-resistant magnetic bar

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass		
Without tapped hole	With tapped hole	Length	Diameter	Material	Surface finish						
PCMB-QT10	PCMB2-QT10	95 (3.74)	φ25 (0.98)	SUS304	#400 buffed	Nd rare earth type	0.8T (8000G)	150°C (302°F)	0.35kg/0.77 lb		
PCMB-QT15	PCMB2-QT15	145 (5.70)							0.5 kg/1.10 lb		
PCMB-QT20	PCMB2-QT20	194 (7.63)							0.7 kg/1.50 lb		
PCMB-QT25	PCMB2-QT25	244 (9.60)				Property value 1.1T (11,000G)			0.85kg/1.87 lb		
PCMB-QT30	PCMB2-QT30	295 (11.6)							1.05kg/2.31 lb		
PCMB-QT35	PCMB2-QT35	343 (13.5)							1.2 kg/2.64 lb		
PCMB-QT40	PCMB2-QT40	393 (15.4)							1.4 kg/3.08 lb		
PCMB-QT50	PCMB2-QT50	493 (19.4)							1.75kg/3.85 lb		
PCMB-QT60	PCMB2-QT60	592 (23.3)							2.1 kg/4.63 lb		

※A casing pipe of SUS316 is also available.

※The tapped holes are M6-P1.0 and 7 mm deep, located in the center on both end faces.

※In order to increase the surface magnetic flux density, the wall thickness of the pipe needs to be decreased. If it is decreased, however, the strength may drop or the pipe may deform. Thus, for the safety reason, pipes of thickness thinner than specified above will not be manufactured.

MAGNETIC HOLDERS

MAGNETIC TOOLS

MAGNETIC TOOLS FOR WELDING OPERATION

LIFTING MAGNET

MAGBORE

CHIP & SLUDGE TRANSPORTERS

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MAGNETIZERS AND DEMAGNETIZERS

MAGNETIC EQUIPMENT FOR TRANSPORTATION

MAGNETIC SEPARATORS

HIGH GRADE MAGNETIC SEPARATORS

MEASURING INSTRUMENTS

MAGNETIC MATERIALS

Model PCMB-J WEAR-RESISTANT SANITARY TYPE MAGNETIC BAR



Highly Resistant to Wear and Corrosion and Longer Life!

[Features]

- The stainless steel surface has been treated by Kanetec's original technology to provide high resistance to wear and corrosion.
- The surface is hardly susceptible to scratches and thus remains polished and glossy, requiring replacement less frequently for economical operations.

	[mm (in.)]				
Model	PCMB2-J10	PCMB2-J15	PCMB2-J20	PCMB2-J30	PCMB2-J40
Main unit dimensions	φ25 (0.98) × 95 (3.74)	φ25 (0.98) × 145 (5.70)	φ25 (0.98) × 194 (7.63)	φ25 (0.98) × 295 (11.6)	φ25 (0.98) × 393 (15.4)

Model PCMBD-A SUPER POWERFUL MAGNETIC BAR (DOUBLE TYPE)

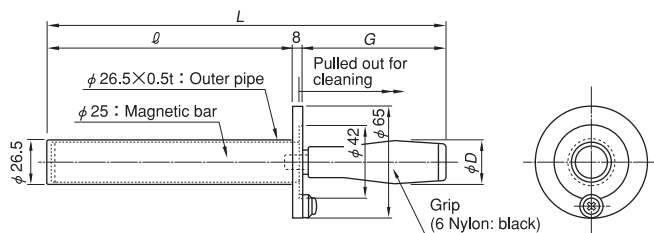


[Application]

Most suitable for cleaning where a relatively large amount of iron powder, etc. is mixed.

[Features]

- As these bars have an outer pipe, attracted iron powder smoothly drops when the magnetic bar is pulled out.
- The outer pipe and the magnetic bar have a flange. When the magnetic bar is housed, two flanges become one piece to prevent intrusion of foreign matter to the inside of the magnetic bar and to prevent the magnetic bar from coming out.
- The magnetic bar has an easy-to-hold plastic grip.



Model	Surface Material	Surface Finish	Surface Max. Magnetic Flux Density	Working Temperature	External Dimensions				Mass
					L	l	G	D	
PCMBD-A13	SUS304	#400 buffed	0.8T (8000G) min.	Upper limit 80°C (176°F)	216 (8.50)	125 (4.92)	83 (3.26)	24 (0.94)	0.8kg/1.7 lb
PCMBD-A20					285 (11.2)	194 (7.63)			1.1kg/2.4 lb
PCMBD-A25					352 (13.8)	244 (9.60)	100 (3.93)	28 (1.10)	1.3kg/2.8 lb
PCMBD-A30					403 (15.8)	295 (11.6)			1.5kg/3.3 lb

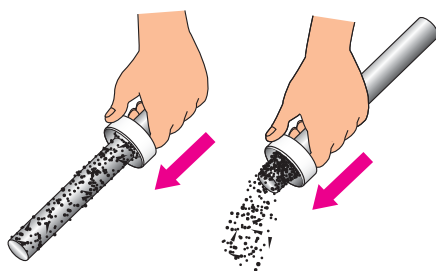
※ A type having a surface maximum magnetic flux density of 0.95 T (9500 G) is also available. (Optional)

Model PCMB-K SCRAPER FOR REMOVING IRON POWDER



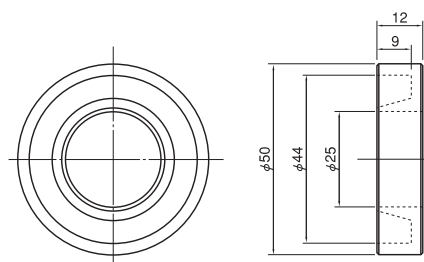
[Application]

A scraper for a sanitary type magnetic bar to scrape iron powder.



[Features]

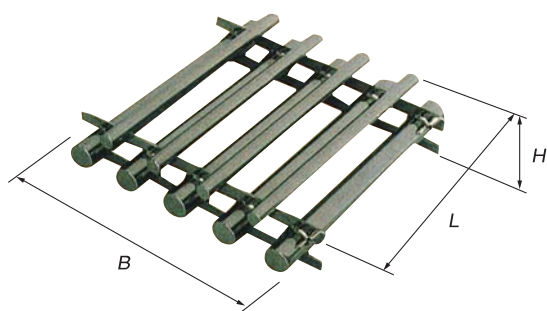
- A groove is provided to receive iron powder so that it does not scatter.
- When this is installed on each end of a sanitary type magnetic bar, they serve as a stand also.



Model	Casing (Material)	Applicable Magnetic Bar Dia
PCMB-K25	Teflon	φ25 (0.98)

Model **PCMG****POWERFUL RECTANGULAR GRID TYPE MAGNETIC BAR UNIT**

PCMG-2530

**[Application]**

A unit consisting of powerful magnetic bars arranged in a grid. It is used to remove iron from various bulk materials during their fall in rectangular ducts. It can also be placed or suspended in a liquid tank to remove iron.

[Features]

- High grade finish of sanitary specification.
- Models of various sizes available according to sizes of ducts.
- These units employ powerful rare earth magnets having a property value of 1.2 T (12,000 G) or 1.35 T (13,500 G) or over and the surface maximum magnetic flux density is 0.8 T (8,000 G) or 1 T (10,000 G).
- Since permanent magnets of which the strong magnetic force is maintained for almost perpetually are used, the running cost can be reduced significantly.
- These units are water-tight and thus can be installed in fluid.

**Magnets in action
behind delicious
bread and sense
of security.**

**Powerful rectangular grid type magnetic bar unit**

[mm (in)]

Model	Treating Amount	Dimensions			Applicable Magnetic Bar			Casing		Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass	Remarks
		B	L	H	Dia	Magnet used	Number	Material	Finish				
PCMG-2020	6m³/h	194 (7.63)	194 (7.63)	65 (2.55)	φ25 (0.98)	Nd rare earth type	4	SUS304	#400 buffed	0.8T (8000G)	80°C (176°F)	3 kg/ 6.6 lb	SUS316 version also available.
PCMG-2025	8m³/h		244 (9.60)				3.6kg/ 7.9 lb						
PCMG-2525	10m³/h	244 (9.60)	295 (11.6)			5	4.5kg/ 9.9 lb						
PCMG-2530	12m³/h					6	5.4kg/11.9 lb						
PCMG-3030	14m³/h	295 (11.6)	393 (15.4)			6	6.5kg/14.3 lb						
PCMG-3040	18m³/h					8	8.2kg/18.1 lb						
PCMG-4040	24m³/h	393 (15.4)	12 kg/26.4 lb										

※ A 2-stage type or a type with frame is also available upon request.

Heat-resistant powerful rectangular grid type magnetic bar unit

[mm (in)]

Model	Treating Amount	Dimensions			Applicable Magnetic Bar			Casing		Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass	Remarks
		B	L	H	Dia	Magnet used	Number	Material	Finish				
PCMG-T2020	6m³/h	194 (7.63)	194 (7.63)	65 (2.55)	φ25 (0.98)	Sm rare earth type	4	SUS304	#400 buffed	0.8T (8000G)	240°C (464°F)	3 kg/ 6.6 lb	SUS316 version also available.
PCMG-T2025	8m³/h		244 (9.60)				3.6kg/ 7.9 lb						
PCMG-T2525	10m³/h	244 (9.60)	295 (11.6)			5	4.5kg/ 9.9 lb						
PCMG-T2530	12m³/h					6	5.4kg/11.9 lb						
PCMG-T3030	14m³/h	295 (11.6)	393 (15.4)			6	6.5kg/14.3 lb						
PCMG-T3040	18m³/h					8	8.2kg/18.1 lb						
PCMG-T4040	24m³/h	393 (15.4)					12 kg/26.4 lb						

※ A 2-stage type or a type with frame is also available upon request.

Super powerful rectangular grid type magnetic bar unit

[mm (in)]

Model	Treating Amount	Dimensions			Applicable Magnetic Bar			Casing		Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass	Remarks
		B	L	H	Dia	Magnet used	Number	Material	Finish				
PCMG-A2020	6m³/h	194 (7.63)	194 (7.63)	65 (2.55)	φ25 (0.98)	Nd rare earth type	4	SUS304	#400 buffed	1T (10000G)	80°C (176°F)	3 kg/ 6.6 lb	SUS316 version also available.
PCMG-A2025	8m³/h		244 (9.60)				3.6kg/ 7.9 lb						
PCMG-A2525	10m³/h	244 (9.60)	295 (11.6)			5	4.5kg/ 9.9 lb						
PCMG-A2530	12m³/h					6	5.4kg/11.9 lb						
PCMG-A3030	14m³/h	295 (11.6)	393 (15.4)			1.35T (13,500G)	6					6.5kg/14.3 lb	
PCMG-A3040	18m³/h						8					8.2kg/18.1 lb	
PCMG-A4040	24m³/h	393 (15.4)											

※ A 2-stage type or a type with frame is also available upon request.

MAGNETIC
HOLDERSMAGNETIC
TOOLSMAGNETIC TOOLS FOR
WELDING OPERATIONLIFTING
MAGNET

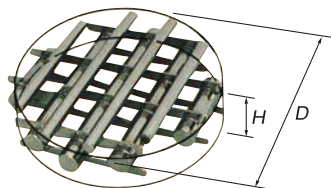
MAGBORE

CHIP & SLUDGE
TRANSPORTERSENVIRONMENTAL
EQUIPMENTMAGNETIZERS AND
DEMAGNETIZERSMAGNETIC EQUIPMENT
FOR TRANSPORTATIONMAGNETIC
SEPARATORSHIGH GRADE MAGNETIC
SEPARATORSMEASURING
INSTRUMENTSMAGNETIC
MATERIALS

Model PCMG POWERFUL ROUND GRID TYPE MAGNETIC BAR UNIT



PCMG-C20



Magnets contributing to the glitter of pure white crystal sugar.

[Application]

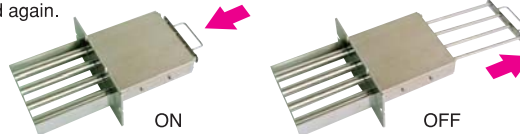
A unit consisting of powerful magnetic bars arranged in a grid. It is installed to remove iron from various bulk materials during their fall from round ducts or pipes. It can also be placed or suspended in a liquid tank to remove iron.

[Features]

- High grade finish of sanitary specification.
- Models of various sizes available according to sizes of ducts and pipes.
- These powerful units employ powerful rare earth magnets having a property value of 1.2 T (12,000 G) or 1.35 T (13,500 G) or over and the surface maximum magnetic flux density is 0.8 T (8,000 G) or 1 T (10,000 G).
- These units are water-tight and thus can be installed in fluid.
- Since permanent magnets of which the strong magnetic force is maintained for almost perpetually are used, the running cost can be reduced significantly.

■ An example of equipment utilizing magnetic bars

This equipment can be turned on and off in magnetic force to remove attracted iron. When the lever is pulled, the magnetic bars in the pipes move to the box and the pipes are demagnetized. When the lever is pushed in, the pipes are magnetized again.



※ This product is made to order and will be manufactured after determination of sizes, etc. with the customer.

Powerful round grid type magnetic bar unit

[mm (in)]

Model	Treating Amount	Dimensions		Applicable Magnetic Bar			Casing		Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass	Remarks
		D	H	Dia	Magnet used	Number	Material	Finish				
PCMG-C20	4.5m ³ /h	φ196 (7.71)	65 (2.55)	φ25 (0.98)	Nd rare earth type Property value 1.2T (12,000G)	4	SUS304	#400 buffed	0.8T (8000G)	80°C (176°F)	2.2kg/ 4.8 lb	SUS316 version also available.
PCMG-C25	7 m ³ /h	φ246 (9.68)				5					3.6kg/ 7.9 lb	
PCMG-C30	10 m ³ /h	φ296 (11.6)				6					5 kg/11.0 lb	
PCMG-C35	13 m ³ /h	φ346 (13.6)				7					6.5kg/14.3 lb	
PCMG-C40	17 m ³ /h	φ396 (15.5)				8					7.8kg/17.2 lb	

※ A 2-stage type or a type with frame is also available upon request.

Super powerful round grid type magnetic bar unit

[mm (in)]

Model	Treating Amount	Dimensions		Applicable Magnetic Bar			Casing		Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass	Remarks
		D	H	Dia	Magnet used	Number	Material	Finish				
PCMG-C20	4.5m ³ /h	φ196 (7.71)	65 (2.55)	φ25 (0.98)	Nd rare earth type Property value 1.35T (13,500G)	4	SUS304	#400 buffed	1T (10000G)	80°C (176°F)	2.2kg/ 4.8 lb	SUS316 version also available.
PCMG-C25	7 m ³ /h	φ246 (9.68)				5					3.6kg/ 7.9 lb	
PCMG-C30	10 m ³ /h	φ296 (11.6)				6					5 kg/11.0 lb	
PCMG-C35	13 m ³ /h	φ346 (13.6)				7					6.5kg/14.3 lb	
PCMG-C40	17 m ³ /h	φ396 (15.5)				8					7.8kg/17.2 lb	

※ A 2-stage type or a type with frame is also available upon request.

Heat-resistant powerful round grid type magnetic bar unit

[mm (in)]

Model	Treating Amount	Dimensions		Applicable Magnetic Bar			Casing		Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass	Remarks
		D	H	Dia	Magnet used	Number	Material	Finish				
PCMG-TC20	4.5m ³ /h	φ196 (7.71)	65 (2.55)	φ25 (0.98)	Sm rare earth type Property value 1.1T (11,000G)	4	SUS304	#400 buffed	0.8T (8000G)	240°C (464°F)	2.2kg/ 4.8 lb	SUS316 version also available.
PCMG-TC25	7 m ³ /h	φ246 (9.68)				5					3.6kg/ 7.9 lb	
PCMG-TC30	10 m ³ /h	φ296 (11.6)				6					5 kg/11.0 lb	
PCMG-TC35	13 m ³ /h	φ346 (13.6)				7					6.5kg/14.3 lb	
PCMG-TC40	17 m ³ /h	φ396 (15.5)				8					7.8kg/17.2 lb	

※ A 2-stage type or a type with frame is also available upon request.

Model PCMH SANITARY TYPE MAGNETIC FILTER FOR VISCOUS LIQUIDS



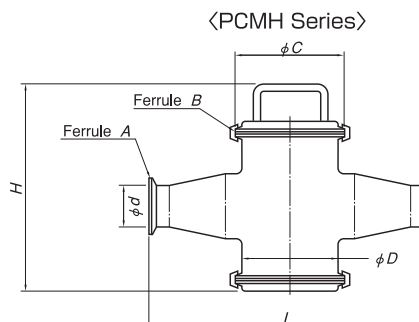
PCMH-25

[Application]

This filter is recommended for operations where it is installed between manufacturing processes in plants of viscous foods like pasty juice and chemical products like viscous cosmetic liquids to separate/catch magnetic fine particles.

[Features]

- High grade finish of sanitary specification.
- Capable of withstanding high pressure and high viscosity.
- Models of various sizes available according to sizes of mounting pipes.
- Since permanent magnets of which the strong magnetic force is maintained for almost perpetually are used, the running cost can be reduced significantly.
- Powerful magnetic bars having a surface magnetic flux density of 0.8 T or 1 T or over are built in, that realizes superb performance in collecting iron from passing fluids.
- A heat-resistant powerful version that can maintain a strong magnetic force without significant deterioration when used continuously in fluids up to 150°C is also available.



Powerful type

Model	Material	Finish	Working Pressure Limit	Viscosity Upper Limit of Applicable Fluids (Ref)	Magnetic Bar			External Dimensions						Working Temperature Upper Limit	Mass		
					Material	Pcs Mounted	Surface max. magnetic flux density	A	d	B	C	D	L			H	
PCMH -15	SUS	#400 buffed	1,000kPa (10kgf/cm ²)	1×10 ⁵ mPa·s (1×10 ⁵ cP)	SUS 304	5	0.8T (8000G)	1 1/8 S	35.7 (1.41)	4 1/8 S	130 (5.11)	114.3 (4.50)	330 (12.9)	240 (9.44)	80°C (176°F)	10.2kg/22.5 lb	
PCMH -20						7		2 S	47.8 (1.88)							11.5kg/25.0 lb	
PCMH -25								2 1/8 S	59.5 (2.34)							14.5kg/31.9 lb	
PCMH -30								3 S	72.3 (2.84)							15.8kg/34.8 lb	
PCMH -35			500kPa (5kgf/cm ²)	1.5×10 ⁴ mPa·s (1.5×10 ⁴ cP)		5		3 1/8 S	85.1 (3.35)	5 1/8 S	155 (6.10)	139.8 (5.50)	420 (16.5)	260 (10.2)		17.2kg/37.9 lb	
PCMH2-15								1 1/8 S	35.7 (1.41)							6.5kg/14.3 lb	
PCMH2-20								2 S	47.8 (1.88)								
PCMH2-25								7	2 1/8 S							59.5 (2.34)	11.0kg/24.2 lb
PCMH2-30									3 S							72.3 (2.84)	
PCMH2-35									3 1/8 S							85.1 (3.35)	

※A SUS316 version is also available upon request. The standard connection method is by use of ferrules, but a screw type or flange type is also available.

Heat-resistant powerful type

Heat Resistant Power Cable Type																[mm (in.)]	
Model	Material	Finish	Working Pressure Limit	Viscosity Upper Limit of Applicable Fluids (Ref)	Magnetic Bar			External Dimensions							Working Temperature Upper Limit	Mass	
					Material	Pcs Mounted	Surface max. magnetic flux density	A	d	B	C	D	L	H			
PCMH -T15	SUS 304	#400 buffed	1,000kPa (10kgf/cm ²)	1×10 ⁵ mPa·s (1×10 ⁵ cP)	SUS 304	5	0.8T (8000G)	1 1/8 S	35.7 (1.41)	4 1/8 S	130 (5.11)	114.3 (4.50)	330 (12.9)	240 (9.44)	150°C (302°F)	10.2kg/22.5 lb	
PCMH -T20								2 S	47.8 (1.88)							11.5kg/25.0 lb	
PCMH -T25								2 1/8 S	59.5 (2.34)							14.5kg/31.9 lb	
PCMH -T30								3 S	72.3 (2.84)							15.8kg/34.8 lb	
PCMH -T35			3 1/8 S	85.1 (3.35)	5 1/8 S	155 (6.10)		139.8 (5.50)	420 (16.5)	260 (10.2)	17.2kg/37.9 lb						
PCMH2-T15			1 1/8 S	35.7 (1.41)							4 1/8 S	130 (5.11)	114.3 (4.50)	330 (12.9)		177 (6.96)	6.5kg/14.3 lb
PCMH2-T20			2 S	47.8 (1.88)													
PCMH2-T25			2 1/8 S	59.5 (2.34)													
PCMH2-T30			3 S	72.3 (2.84)							5 1/8 S	155 (6.10)	139.8 (5.50)	420 (16.5)		203 (7.99)	11.0kg/24.2 lb
PCMH2-T35			3 1/8 S	85.1 (3.35)													

※A SUS316 version is also available upon request. The standard connection method is by use of ferrules, but a screw type or flange type is also available.

Super powerful type

Super power type															[mm (in.)]			
Model	Material	Finish	Working Pressure Limit	Viscosity Upper Limit of Applicable Fluids (Ref)	Magnetic Bar			External Dimensions						Working Temperature Upper Limit	Mass			
					Material	Pcs Mounted	Surface max. magnetic flux density	A	d	B	C	D	L			H		
PCMH -A15	SUS 304	#400 buffed	1,000kPa (10kgf/cm ²)	1×10 ⁵ mPa·s (1×10 ⁵ cP)	SUS 304	5	1T (10000G)	1 1/8	35.7 (1.41)	4 1/8	130 (5.11)	114.3 (4.50)	330 (12.9)	240 (9.44)	80°C (176°F)	10.2kg/22.5 lb		
PCMH -A20						7		2 S	47.8 (1.88)							11.5kg/25.0 lb		
PCMH -A25								2 1/8	59.5 (2.34)							14.5kg/31.9 lb		
PCMH -A30								3 S	72.3 (2.84)							15.8kg/34.8 lb		
PCMH -A35			500kPa (5kgf/cm ²)	1.5×10 ⁴ mPa·s (1.5×10 ⁴ cP)	SUS 304	5		3 1/8	85.1 (3.35)	5 1/8	155 (6.10)	139.8 (5.50)	420 (16.5)	260 (10.2)		17.2kg/37.9 lb		
PCMH2-A15								1 1/8	35.7 (1.41)							6.5kg/14.3 lb		
PCMH2-A20						7		2 S	47.8 (1.88)									
PCMH2-A25								2 1/8	59.5 (2.34)					11.0kg/24.2 lb				
PCMH2-A30								3 S	72.3 (2.84)									
PCMH2-A35								3 1/8	85.1 (3.35)									

※A SUS316 version is also available upon request. The standard connection method is by use of ferrules, but a screw type or flange type is also available.

Heat-resistant super powerful type

Non-ferrous Superpower type															[mm (in.)]		
Model	Material	Finish	Working Pressure Limit	Viscosity Upper Limit of Applicable Fluids (Ref)	Magnetic Bar			External Dimensions						Working Temperature Upper Limit	Mass		
					Material	Pcs Mounted	Surface max. magnetic flux density	A	d	B	C	D	L			H	
PCMH -AT15	SUS 304	#400 buffed	1,000kPa (10kgf/cm ²)	1×10 ⁵ mPa·s (1×10 ⁵ cP)	SUS 304	5	1T (10000G)	1 1/8 S	35.7 (1.41)	4 1/8 S	130 (5.11)	114.3 (4.50)	330 (12.9)	240 (9.44)	150°C (302°F)	10.2kg/22.5 lb	
PCMH -AT20								2 S	47.8 (1.88)							11.5kg/25.0 lb	
PCMH -AT25								2 1/8 S	59.5 (2.34)							14.5kg/31.9 lb	
PCMH -AT30								3 S	72.3 (2.84)							15.8kg/34.8 lb	
PCMH -AT35			500kPa (5kgf/cm ²)	1.5×10 ⁴ mPa·s (1.5×10 ⁴ cP)	SUS 304	5		3 1/8 S	85.1 (3.35)	5 1/8 S	155 (6.10)	139.8 (5.50)	420 (16.5)	260 (10.2)		17.2kg/37.9 lb	
PCMH2-AT15								1 1/8 S	35.7 (1.41)							6.5kg/14.3 lb	
PCMH2-AT20						7		2 S	47.8 (1.88)								
PCMH2-AT25								2 1/8 S	59.5 (2.34)					11.0kg/24.2 lb			
PCMH2-AT30								3 S	72.3 (2.84)								
PCMH2-AT35								3 1/8 S	85.1 (3.35)								

※A SUS316 version is also available upon request. The standard connection method is by use of ferrules, but a screw type or flange type is also available.

MAGNETIC HOLDERS

MAGNETIC TOOLS

MAGNETIC TOOLS FOR WELDING OPERATION

LIFTING MAGNET

MAGBORE

CHIP & SLUDGE TRANSPORTERS

ENVIRONMENTAL EQUIPMENT

MAGNETIZERS AND DEMAGNETIZERS

MAGNETIC EQUIPMENT FOR TRANSPORTATION

MAGNETIC SEPARATORS

HIGH GRADE MAGNETIC SEPARATORS

MEASURING INSTRUMENTS

MAGNETIC MATERIALS

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 MEASURING INSTRUMENTS
 MAGNETIC MATERIALS

Model **PCMH2-E**
SANITARY TYPE MAGNETIC FILTER FOR VISCOUS LIQUIDS

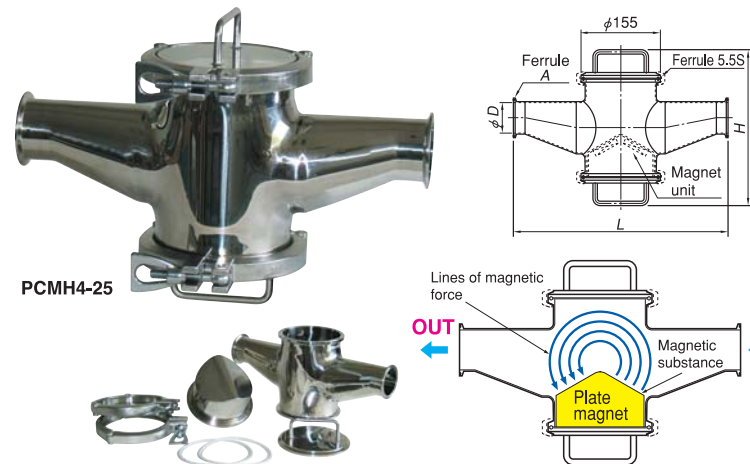


[Application]
 Since these filters have been made by welding all around, they are suitable for food processing operations; in particular, most suitable for operations where growth of bacteria is not allowed.
[Features]
 ● The magnetic bar imbedded part has been welded all around and buffed for clean operations.
 ● A super powerful type and heat-resistant type are also available.

Model	Material	Finish	Working Pressure Limit	Viscosity Upper Limit of Applicable Fluids (Ref)	Magnetic Bar			External Dimensions						Working Temperature Upper Limit	Mass			
					Material	Pcs Mounted	Surface max. magnetic flux density	A	d	B	C	D	L			H		
PCMH2-E15	SUS 304	#400 buffed	500kPa (5kgf/cm²)	1.5×10 ⁴ mPa·s (1.5×10 ⁴ cP)	SUS 304	4	0.8T (8000G)	1 1/8 S	35.7 (1.41)	4 1/8 S	130 (5.11)	114.3 (4.50)	330 (12.9)	177 (6.96)	80°C (176°F)	6.5kg/14.3 lb		
PCMH2-E20						2 S		47.8 (1.88)										
PCMH2-E25						5		2 1/8 S	59.5 (2.34)	5 1/8 S	155 (6.10)	139.8 (5.50)	420 (16.5)	203 (7.99)		11kg/24.2 lb		
PCMH2-E30								3 S	72.3 (2.84)									
PCMH2-E35								3 1/8 S	85.1 (3.35)									

※ A SUS316 version is also available upon request. The standard connection method is by use of ferrules, but a screw type or flange type is also available.

Model **PCMH4**
SANITARY TYPE MAGNETIC FILTER FOR VISCOUS LIQUIDS

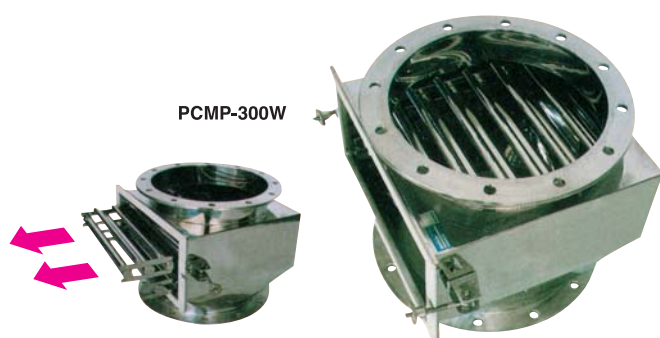


[Application]
 Most suitable for collecting magnetic substances and weak magnetic substances from viscous liquid foods and chemical products containing solids.
[Features]
 ● These filters have been so constructed as to ensure smooth flow of raw materials and cause the magnetic force to act up to the top of the casing, thus collecting magnetic substances efficiently.
 ● Easy overhaul and easy cleaning.
 ● No liquid remains, thus clean operations are ensured.

mm (in.)

Model	Surface max. magnetic flux density	Dimensions				Mass	
		L	H	A	φD		
PCMH4-15	0.35T (3500G)	360	304 (11.9)	1.5S	35.7 (1.41)	12.8kg/28.2 lb	
PCMH4-20		(14.1)		2 S	47.8 (1.88)	13.8kg/30.4 lb	
PCMH4-25		420		2.5S	59.5 (2.34)	15 kg/33.0 lb	
PCMH4-30				3 S	72.3 (2.84)	16.3kg/35.9 lb	
PCMH4-35				3.5S	85.1 (3.35)	17.7kg/39.0 lb	

Model PCMP POWERFUL CLEAN MAGNETIC PIPE



An example of fabrication of various types



An example of PCMP automatic discharge type



[Application]

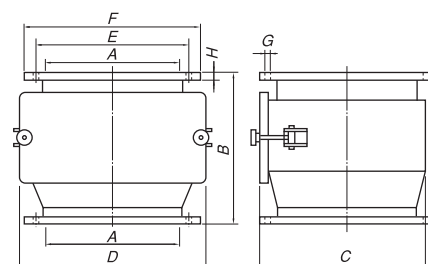
These pipes are installed on the falling side of pneumatic feed lines and pipe passages having a relatively large diameter to remove iron from flowing bulk materials of food raw materials and chemical powder.

[Features]

- Models of various sizes are available according to diameters of pipes on which they are installed and required processing capacity.
- Powerful magnetic bars having a surface magnetic flux density of 0.8 T (8,000 G) or 1 T (10,000 G) or over are built in, that realizes superb performance in collecting iron mixed in flowing bulk materials.
- A heat-resistant powerful version that can maintain a strong magnetic force without significant deterioration when used continuously in fluids up to 240°C is also available.
- Since permanent magnets of which the strong magnetic force is maintained for almost perpetually are used, the running cost can be reduced significantly.

■ An example of application: Spice raw materials, gunpowder, chemicals

Gentle removal of iron from powder, fine and coarse particles without damaging or denaturing them.



Powerful type

Powerful type															Unit: mm (in)
Model	Material	Magnetic Bar			Capacity	External Dimensions								Working Temperature Upper Limit	Mass
		Stage	Pcs Mounted	Surface max. magnetic flux density		A	B	C	D	E	F	G	H		
PCMP-200W	SUS 304	2	9	0.8T (8000G)	6m³/h	φ220 (8.66)	360 (14.1)	269 (10.5)	296 (11.6)	280 (11.0)	320 (12.6)	φ18 (0.70) × 8 (0.31)	8 (0.31)	80°C (176°F)	24kg/ 52 lb
PCMP-250W			11		10m³/h	φ270 (10.6)	380 (14.9)	319 (12.5)	346 (13.6)	345 (13.5)	385 (15.2)				30kg/ 66 lb
PCMP-300W			13		14m³/h	φ320 (12.6)	410 (16.1)	369 (14.5)	396 (15.5)	390 (15.3)	430 (16.9)	φ18 (0.70) × 12 (0.47)			35kg/ 77 lb
PCMP-350W			15		18m³/h	φ370 (14.5)	450 (17.7)	419 (16.5)	446 (17.5)	435 (17.1)	480 (18.9)				41kg/ 90 lb
PCMP-400W			17		24m³/h	φ420 (16.5)	470 (18.5)	469 (18.4)	496 (19.5)	495 (19.4)	540 (21.2)	φ18 (0.70) × 16 (0.62)			47kg/ 103 lb

※ Flanges of special dimensions are also available according to the specifications of connection. ※ A type having the magnet part made of SUS316 and a type having one-stage magnet rack are also available.

Heat-resistant powerful type

Model	Material	Magnetic Bar			Capacity	External Dimensions								Working Temperature Upper Limit	Mass
		Stage	Pcs Mounted	Surface max. magnetic flux density		A	B	C	D	E	F	G	H		
PCMP-T200W	SUS 304	2	9	0.8T (8000G)	6m³/h	φ220 (8.66)	360 (14.1)	269 (10.5)	296 (11.6)	280 (11.0)	320 (12.6)	φ18 (0.70) × 8 (0.31)	8 (0.31)	240°C (464°F)	24kg/ 52 lb
PCMP-T250W			11		10m³/h	φ270 (10.6)	380 (14.9)	319 (12.5)	346 (13.6)	345 (13.5)	385 (15.2)				30kg/ 66 lb
PCMP-T300W			13		14m³/h	φ320 (12.6)	410 (16.1)	369 (14.5)	396 (15.5)	390 (15.3)	430 (16.9)	φ18 (0.70) × 12 (0.47)			35kg/ 77 lb
PCMP-T350W			15		18m³/h	φ370 (14.5)	450 (17.7)	419 (16.5)	446 (17.5)	435 (17.1)	480 (18.9)				41kg/ 90 lb
PCMP-T400W			17		24m³/h	φ420 (16.5)	470 (18.5)	469 (18.4)	496 (19.5)	495 (19.4)	540 (21.2)	φ18 (0.70) × 16 (0.62)			47kg/103 lb

※ Flanges of special dimensions are also available according to the specifications of connection. ※ A type having the magnet part made of SUS316 and a type having one-stage magnet rack are also available.

Super powerful type

Model	Material	Magnetic Bar			Capacity	External Dimensions								Working Temperature Upper Limit	Mass
		Stage	Pcs Mounted	Surface max. magnetic flux density		A	B	C	D	E	F	G	H		
PCMP-A200W	SUS 304	2	9	1T (10000G)	6m³/h	φ220 (8.66)	360 (14.1)	269 (10.5)	296 (11.6)	280 (11.0)	320 (12.6)	φ18 (0.70) × 8 (0.31)	8 (0.31)	80°C (176°F)	24kg/ 52 lb
PCMP-A250W			11		10m³/h	φ270 (10.6)	380 (14.9)	319 (12.5)	346 (13.6)	345 (13.5)	385 (15.2)				30kg/ 66 lb
PCMP-A300W			13		14m³/h	φ320 (12.6)	410 (16.1)	369 (14.5)	396 (15.5)	390 (15.3)	430 (16.9)	φ18 (0.70) ×12 (0.47)			35kg/ 77 lb
PCMP-A350W			15		18m³/h	φ370 (14.5)	450 (17.7)	419 (16.5)	446 (17.5)	435 (17.1)	480 (18.9)				41kg/ 90 lb
PCMP-A400W			17		24m³/h	φ420 (16.5)	470 (18.5)	469 (18.4)	496 (19.5)	495 (19.4)	540 (21.2)	φ18 (0.70) ×16 (0.62)			47kg/103 lb

※ Flanges of special dimensions are also available according to the specifications of connection. ※ A type having the magnet part made of SUS316 and a type having one-stage magnet rack are also available.

MAGNETIC HOLDERS

MAGNETIC TOOLS

MAGNETIC TOOLS FOR WELDING OPERATION

LIFTING MAGNET

MAGBORE

CHIP & SLUDGE TRANSPORTERS

ENVIRONMENTAL EQUIPMENT

MAGNETIZERS AND DEMAGNETIZERS

MAGNETIC EQUIPMENT FOR TRANSPORTATION

MAGNETIC SEPARATORS

HIGH GRADE MAGNETIC SEPARATORS

MEASURING INSTRUMENTS

MAGNETIC MATERIALS

Model PCMN SANITARY TYPE PLATE MAGNET



PCMN-T1210

[Application]

Flat type

This type is installed in critical places of nonmagnetic ducts to catch iron in flowing raw materials. When the magnet is removed after raw materials have passed, the magnetic force is canceled and only iron can be collected.

[Features]

- High grade finish of sanitary specification.
- These magnets are completely enclosed and therefore can be installed in fluid.
- Powerful as a rare earth magnet having a property value of 1.2 T is built in.

Type with template

This type is installed on chutes and hoppers to separate/collect iron in bulk materials such as foods and chemicals. The template holds caught iron against the pressure of flowing raw materials and keeps accumulating such iron.

Powerful plate magnet

Flat type

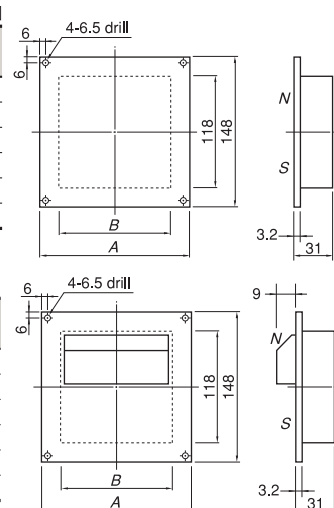
Model	Dimensions		Material	Surface Finish	Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
	A	B						
PCMN-T1205	85 (3.34)	55 (2.16)	SUS304	#400 buffed	Nd rare earth type Property value 1.2 T (12,000 G)	0.4T	80°C (176°F)	1.8kg/3.96 lb
PCMN-T1210	135 (5.31)	105 (4.13)						3.1kg/6.83 lb
PCMN-T1215	185 (7.28)	156 (6.14)						5.0kg/11.0 lb
PCMN-T1220	235 (9.25)	207 (8.15)						6.0kg/13.2 lb
PCMN-T1225	290 (11.4)	258 (10.1)						7.1kg/15.6 lb
PCMN-T1230	340 (13.3)	309 (12.1)						8.6kg/18.9 lb

※ These magnets can be used in liquids that do not cause chemical reaction with the material of the magnets.

Type with template

Model	Dimensions		Material		Surface Finish	Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
	A	B	Main Unit	Template					
PCMN-T1205	85 (3.34)	55 (2.16)	SUS304	SUS304	#400 buffed	Nd rare earth type Property value 1.2 T (12,000 G)	0.8T	80°C (176°F)	2.0kg/4.40 lb
PCMN-T1210	135 (5.31)	105 (4.13)							3.4kg/7.49 lb
PCMN-T1215	185 (7.28)	156 (6.14)							5.5kg/12.1 lb
PCMN-T1220	235 (9.25)	207 (8.15)							6.6kg/14.5 lb
PCMN-T1225	290 (11.4)	258 (10.1)							7.9kg/17.4 lb
PCMN-T1230	340 (13.3)	309 (12.1)							9.5kg/21.0 lb

※ These magnets can be used in liquids that do not cause chemical reaction with the material of the magnets.



Model PCMN-HU SUSPENDED POWERFUL CLEAN PLATE MAGNET

[Application]

These magnets are suspended above a conveyor to attract and remove iron pieces, etc. from foods being conveyed.

[Features]

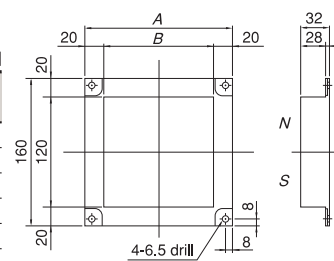
- These magnets are a suspension version of the conventional powerful plate magnet and can easily be used in fluid.
- Four eyebolts are included.

Powerful plate magnet

Suspension type

Model	Dimensions		Material	Surface Finish	Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
	A	B						
PCMN-HU1205	97 (3.81)	57 (2.24)	SUS304	#400 buffed	Nd rare earth type Property value 1.2 T (12,000 G)	0.4T	80°C (176°F)	2.3kg/5.07 lb
PCMN-HU1210	148 (5.82)	108 (4.25)						3.8kg/8.39 lb
PCMN-HU1215	199 (7.83)	159 (6.26)						6.0kg/13.2 lb
PCMN-HU1220	249 (9.80)	209 (8.22)						7.1kg/15.6 lb
PCMN-HU1225	300 (11.8)	260 (10.2)						8.2kg/18.1 lb
PCMN-HU1230	351 (13.8)	311 (12.2)						9.9kg/21.8 lb

※ These magnets can be used in liquids that do not cause chemical reaction with the material of the magnets.



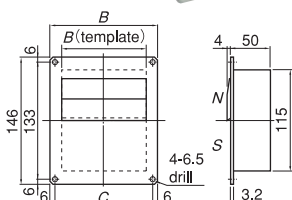
Model PCMN-TF SANITARY TYPE PLATE MAGNET WITH WEAR-RESISTANT COATING



Miracle 1.4 Tesla (14,000 Gauss) realized

[Features]

- A uniform magnetic field is generated over the entire poles having a certain width.
- A magnetic flux density of 1.4 Tesla (14,000 Gauss) far exceeding conventional powerful magnets has been realized.
- Compared with the N-S-N-S structure of magnetic bars, the effective magnetic poles are 100% to provide a sure separation effect.
- The employment of a sharp gradient construction enables it to continuously catch fine iron powder that cannot be caught by conventional iron-removing magnets.
- These magnets have been treated by Kanetec's original surface treatment technology to become highly resistant to wear and corrosion.



Model	Dimensions			Material	Surface Finish	Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
	A	B	C						
PCMN-TF1205	55 (2.16)	85 (3.34)	73 (2.87)	SUS304	#400 buffed	Nd rare earth type Property value 1.2 T (12,000 G)	1.4T (14000G)	80°C (176°F)	2.5kg/5.51 lb
PCMN-TF1210	105 (4.13)	135 (5.31)	123 (4.84)						5.0kg/11.0 lb
PCMN-TF1215	156 (6.14)	185 (7.28)	173 (6.81)						7.5kg/16.5 lb
PCMN-TF1220	207 (8.15)	235 (9.25)	223 (8.77)						10.0kg/22.0 lb
PCMN-TF1230	309 (12.1)	340 (13.3)	328 (12.9)						15.0kg/33.0 lb

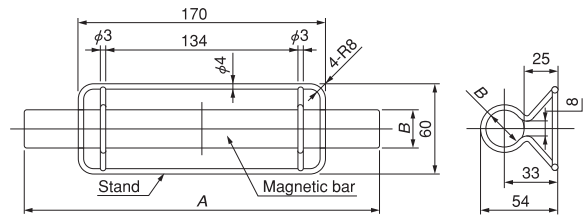
Model PCMB-S SANITARY TYPE MAGNETIC BAR (STAND TYPE)



PCMB-S20

[Features]

A sanitary type magnetic bar (PCMB) with a stand. These bars can be installed in a tank to remove iron in fluid.



Powerful type

[mm (in.)]

Model	Dimensions		Material	Surface Finish		Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
	A	B		Magnetic bar	Stand				
PCMB-S20	194 (7.63)	φ25 (0.98)	SUS304	#400 buffed	Electrolytic polishing	Nd rare earth type / Property value 1.2 T (12,000 G)	0.8T (8000G)	80°C (176°F)	0.6kg/1.32 lb
PCMB-S25	244 (9.60)								0.65kg/1.43 lb
PCMB-S30	295 (11.6)								0.7kg/1.50 lb

Heat-resistant powerful type

[mm (in.)]

Model	Dimensions		Material	Surface Finish		Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
	A	B		Magnetic bar	Stand				
PCMB-TS20	194 (7.63)	φ25 (0.98)	SUS304	#400 buffed	Electrolytic polishing	Nd rare earth type / Property value 1.1 T (11,000 G)	0.8T (8000G)	240°C (464°F)	0.6kg/1.32 lb
PCMB-TS25	244 (9.60)								0.65kg/1.43 lb
PCMB-TS30	295 (11.6)								0.7kg/1.50 lb

Super powerful type

[mm (in.)]

Model	Dimensions		Material	Surface Finish		Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass
	A	B		Magnetic bar	Stand				
PCMB-AS20	194 (7.63)	φ25 (0.98)	SUS304	#400 buffed	Electrolytic polishing	Nd rare earth type / Property value 1.35 T (13,500 G)	1T (10000G)	80°C (176°F)	0.6kg/1.32 lb
PCMB-AS25	244 (9.60)								0.65kg/1.43 lb
PCMB-AS30	295 (11.6)								0.7kg/1.50 lb

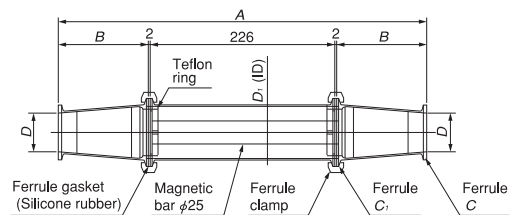
Model PCMS SANITARY TYPE MAGNETIC FILTER (STRAIGHT TYPE)



PCMS-15

[Features]

- Recommended where the amount (flow rate) of materials to process is small.
- Simple construction for easy overhaul and cleaning.
- Compact and light weight, requiring little space.
- An example of application: Mayonnaise, steak tare, paste



Powerful type

[mm (in.)]

Model	Surface Material	Surface Finish	Surface Max. Magnetic Flux Density	External Dimensions						Working Temperature	Mass
				A	B	C	C ₁	D	D ₁		
PCMS-10	SUS304	#400 buffed	0.8T (8000G) min	340 (13.3)	55 (2.16)	1S	2S	φ23 (0.90)	φ47.8 (1.88)	Upper limit 80°C (176°F)	Approx. 2.5kg/5.51 lb
PCMS-15						1.5S		φ35.7 (1.41)			
PCMS-20				450 (17.7)	110 (4.33)	2S	2.5S	φ47.8 (1.88)	φ59.5 (2.34)		Approx. 3.0kg/6.61 lb

Heat-resistant powerful type

[mm (in.)]

Model	Surface Material	Surface Finish	Surface Max. Magnetic Flux Density	External Dimensions						Working Temperature	Mass
				A	B	C	C ₁	D	D ₁		
PCMS-T10	SUS304	#400 buffed	0.8T (8000G) min	340 (13.3)	55 (2.16)	1S	2S	φ23 (0.90)	φ47.8 (1.88)	Upper limit 150°C (302°F)	Approx. 2.5kg/5.51 lb
PCMS-T15						1.5S		φ35.7 (1.41)			
PCMS-T20				450 (17.7)	110 (4.33)	2S	2.5S	φ47.8 (1.88)	φ59.5 (2.34)		Approx. 3.0kg/6.61 lb

Super powerful type

[mm (in.)]

Model	Surface Material	Surface Finish	Surface Max. Magnetic Flux Density	External Dimensions						Working Temperature	Mass
				A	B	C	C ₁	D	D ₁		
PCMS-A10	SUS304	#400 buffed	1T (10000G) min	340 (13.3)	55 (2.16)	1S	2S	φ23 (0.90)	φ47.8 (1.88)	Upper limit 80°C (176°F)	Approx. 2.5kg/5.51 lb
PCMS-A15						1.5S		φ35.7 (1.41)			
PCMS-A20				450 (17.7)	110 (4.33)	2S	2.5S	φ47.8 (1.88)	φ59.5 (2.34)		Approx. 3.0kg/6.61 lb

MAGNETIC HOLDERS

MAGNETIC TOOLS

MAGNETIC TOOLS FOR WELDING OPERATION

LIFTING MAGNET

MAGBORE

CHIP & SLUDGE TRANSPORTERS

ENVIRONMENTAL EQUIPMENT

MAGNETIZERS AND DEMAGNETIZERS

MAGNETIC EQUIPMENT FOR TRANSPORTATION

MAGNETIC SEPARATORS

HIGH GRADE MAGNETIC SEPARATORS

MEASURING INSTRUMENTS

MAGNETIC MATERIALS

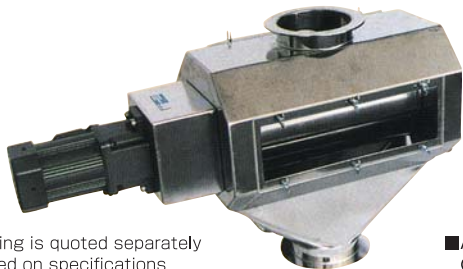
HIGH GRADE MAGNETIC SEPARATORS

Model PCMD POWERFUL PERMANENT MAGNETIC DRUM



This photo shows an image of the product, not Model PCMD.

An example of PCMD-1630 casing



Casing is quoted separately based on specifications.

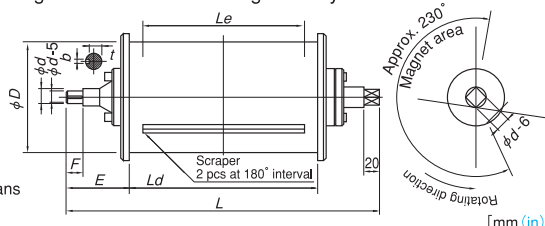
An example of application:
Cleaned rice, barley/wheat, beans, coffee beans

[Application]

These drums are installed in a system or casing to continuously separate and sort out magnetic fine pieces from raw materials fed by a motor at a low speed. These drums are suitable for removing iron mixed in materials in processes of threshing, cleaning and processing rice.

[Features]

- Models of various sizes are available according to specifications of mounting equipment and required capacity.
- These drums employ a powerful rare earth magnet having a property value of 1.2 T (12,000 G) or over and the surface maximum magnetic flux density is 0.35 T (3,500 G) to realize a very powerful drum in the drum specifications.
- Since a permanent magnet of which the strong magnetic force is maintained for almost perpetually is used, the running cost can be reduced significantly.



Model	Max. Capacity	Revolution	Drive Motor	Working Temperature Upper Limit	Drum Dia			Dimensions			Shaft Dia	Keyway	Mass
					φD	Le	Ld	L	E	F	φd	b × t	
PCMD-1630	3.0m³/h	Optimum range	Optimum capacity 0.1kW	80°C (176°F)	φ165 (6.49)	300 (11.8)	320 (12.6)	535 (21.0)	110 (4.33)	25 (0.98)	φ20 (0.78)	5 (0.19) × 12 (0.47)	Approx. 25kg/55.1 lb
PCMD-2135	4.5m³/h	20—60min⁻¹			φ216 (8.50)	350 (13.7)	370 (14.5)	600 (23.6)	115 (4.52)	30 (1.18)	φ25 (0.98)	6 (0.23) × 16.5 (0.65)	Approx. 37kg/81.5 lb
PCMD-2640	6.0m³/h				φ267 (10.5)	390 (15.3)	420 (16.5)	660 (25.9)	130 (5.11)	38 (1.49)	φ30 (1.18)	8 (0.31) × 21 (0.82)	Approx. 50kg/110 lb

Model PCMR POWERFUL PULLEY TYPE SEPARATOR

Removes weak magnetic fine particles from powder!!



PCMR-20A

An example of special fabrication

An example of application: Rice, barley/wheat, spice, coffee, tea, kombu (sea tangle), various dry food materials, candy materials, chemical materials, chemical products, desiccating agent, feed, plastic materials and other various granular materials.

[Application]

These separators are installed in the preceding stage of processing dry bulk materials, spice materials and chemicals to separate and remove weak magnetic fine particles by a strong permanent magnet.

[Features]

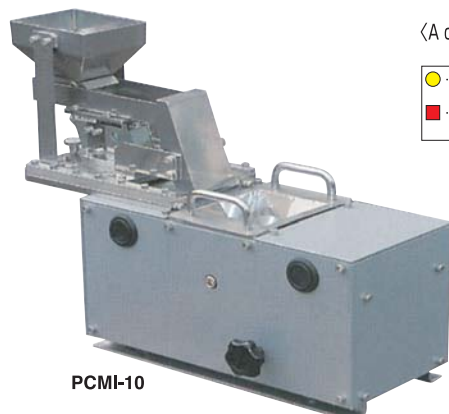
- The permanent magnetic pulley employs a high performance rare earth magnet.
- Weak magnetic substances such as friction particles of stainless steel (SUS304) can be removed.
- Short length and compact, requiring a small installation space.
- The original construction facilitates belt replacement.
- The conveyor system for incorporation into lines.
- A version of antistatic belt specification is also available.

Model	Max. Capacity	Drive Motor	Belt Speed	External Dimensions			Mass
				Width	Length	Height	
PCMR-10A	0.8m³/h	0.09kW	30—60 m/min.	100 (3.93)	830 (32.6)	688 (27.0)	50kg/110 lb
PCMR-20A	1.6m³/h			200 (7.87)			65kg/143 lb
PCMR-30A	2.4m³/h			300 (11.8)			80kg/176 lb

※The width up to 600 mm is possible.

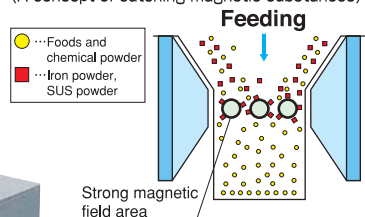
Model PCMI POWERFUL MAGNETIC SEPARATOR

Powerful! 2-Tesla (20,000 Gauss) magnetic field does not miss magnetic substances that cannot be collected by conventional magnetic bars!



PCMI-10

〈A concept of catching magnetic substances〉



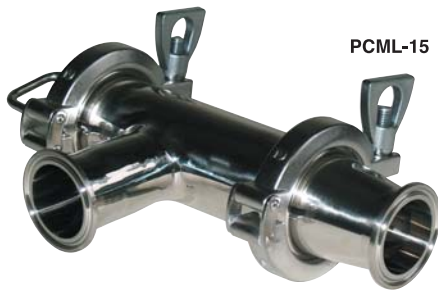
[Features]

- A uniform magnetic field is generated over the entire poles having a certain width.
- Since materials to process always pass through the highly magnetic area, magnetic substances are completely separated.
- Compared with the N-S-N-S structure of magnetic bars, the effective magnetic poles are 100% to provide a sure separation effect.
- Most suitable for separating/collecting and high-grade screening of fine iron powder, stainless steel powder and very fine wear particles from a small amount of non-sticky powder. (A fixed amount vibration feeder included.)

An example of processing

Materials to Process	Grain Size (μm)	Grain Size [kg/h]
Non-sticky powder	300—500	75
Konjak flour	40—600	120

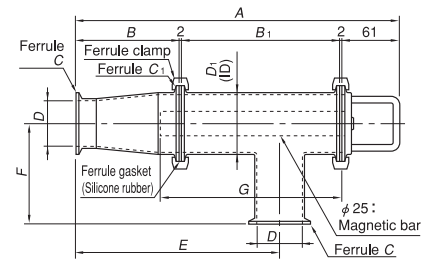
Model	External Dimensions			Passing Area	Power Source	Mass
	Width	Depth	Height			
PCMI-10	180 (7.08)	480 (18.9)	405 (15.9)	W1.5 (0.05) × L100mm (3.93) × 4 places	100 VAC	55kg/121 lb

Model **PCML****SANITARY TYPE MAGNETIC FILTER (L TYPE)**

PCML-15

[Features]

- Suitable for a small amount (flow rate) to process.
- Simple construction for easy overhaul and cleaning.
- Compact and light weight, requiring little installation space.



■ An example of application: Dairy products, ketchup, sausage, honey, ra yu, fermented soybean tare

Powerful type

Model	Surface Material	Surface Finish	Surface Max. Magnetic Flux Density	Working Temperature	Load Pressure Resistance	External Dimensions										Mass
						A	B	B ₁	C	C ₁	D	D ₁	E	F	G	
PCML-10	SUS304	#400 buffed	0.8T (8000G) min	Upper limit 80°C (176°F)	500kPa (5kgf/cm ²)	259 (10.2)	55 (2.16)	139 (5.47)	1S	2S	23 (0.90)	47.8 (1.88)	139 (5.47)	72.5 (2.85)	152 (5.98)	Approx. 2.0kg/4.4 lb
PCML-15						343 (13.5)	110 (4.33)	168 (6.61)	1.5S	2S	35.7 (1.41)	47.8 (1.88)	139 (5.47)	85.5 (3.36)	192 (7.55)	Approx. 3.0kg/6.6 lb
PCML-20						343 (13.5)	110 (4.33)	168 (6.61)	2S	2.5S	47.8 (1.88)	59.5 (2.34)	217 (8.54)	103.5 (4.07)	192 (7.55)	Approx. 3.0kg/6.6 lb

Heat-resistant powerful type

Model	Surface Material	Surface Finish	Surface Max. Magnetic Flux Density	Working Temperature	Load Pressure Resistance	External Dimensions										Mass
						A	B	B ₁	C	C ₁	D	D ₁	E	F	G	
PCML-T10	SUS304	#400 buffed	0.8T (8000G) min	Upper limit 150°C (302°F)	500kPa (5kgf/cm ²)	259 (10.2)	55 (2.16)	139 (5.47)	1S	2S	23 (0.90)	47.8 (1.88)	139 (5.47)	72.5 (2.85)	152 (5.98)	Approx. 2.0kg/4.4 lb
PCML-T15						343 (13.5)	110 (4.33)	168 (6.61)	1.5S	2S	35.7 (1.41)	47.8 (1.88)	139 (5.47)	85.5 (3.36)	192 (7.55)	Approx. 3.0kg/6.6 lb
PCML-T20						343 (13.5)	110 (4.33)	168 (6.61)	2S	2.5S	47.8 (1.88)	59.5 (2.34)	217 (8.54)	103.5 (4.07)	192 (7.55)	Approx. 3.0kg/6.6 lb

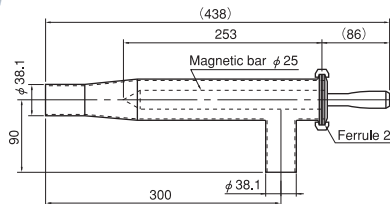
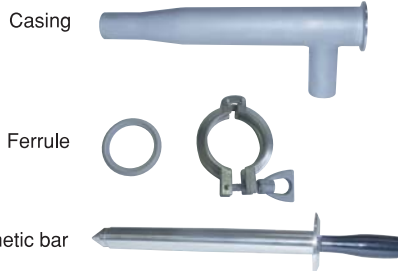
Super powerful type

Model	Surface Material	Surface Finish	Surface Max. Magnetic Flux Density	Working Temperature	Load Pressure Resistance	External Dimensions										Mass
						A	B	B ₁	C	C ₁	D	D ₁	E	F	G	
PCML-A10	SUS304	#400 buffed	1T (10000G) min	Upper limit 80°C (176°F)	500kPa (5kgf/cm ²)	259 (10.2)	55 (2.16)	139 (5.47)	1S	2S	23 (0.90)	47.8 (1.88)	139 (5.47)	72.5 (2.85)	152 (5.98)	Approx. 2.0kg/4.4 lb
PCML-A15						343 (13.5)	110 (4.33)	168 (6.61)	1.5S	2S	35.7 (1.41)	47.8 (1.88)	139 (5.47)	85.5 (3.36)	192 (7.55)	Approx. 3.0kg/6.6 lb
PCML-A20						343 (13.5)	110 (4.33)	168 (6.61)	2S	2.5S	47.8 (1.88)	59.5 (2.34)	217 (8.54)	103.5 (4.07)	192 (7.55)	Approx. 3.0kg/6.6 lb

Model **PCML-S****POWERFUL MAGNETIC FILTER FOR RESIN**

PCML-15-S

An example of fabrication of PCML

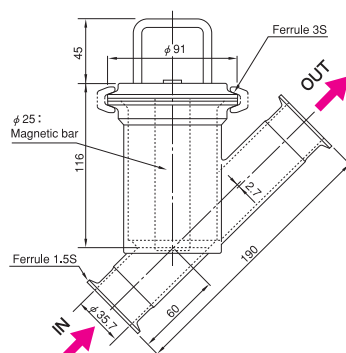
**[Application]**

Attracts and removes iron mixed in resin (powder, particles) by a strong permanent magnet.

[Features]

- Simple construction for easy overhaul and cleaning.
- Compact and light weight, requiring little installation space.
- With a strong magnet having a property value of 1.2 T (12,000 G) or over built in, a strong magnetic force having a surface maximum magnetic flux density of 0.8 T (8,000 G) or over attracts and removes iron mixed in resin.
- As a permanent magnet of which the strong magnetic force lasts almost perpetually is used, the running cost can be reduced significantly.

Model	Surface Material	Surface Finish		Surface Max. Magnetic Flux Density	Working Temperature	Mass
		Magnetic bar	Casing			
PCML-15-S	SUS304	#200 buffed	Inside: #200 buffed Outside: Pickled	0.8T (8000G) min	Upper limit 80°C (176°F)	Approx. 2kg/4.4 lb

Model **PCMY****SANITARY TYPE MAGNETIC FILTER FOR LIQUID****[Features]**

- A Y type filter for use with straight piping. The magnetic bar can be cleaned easily.

■ An example of application: Noodle soup, sauce, syrup

Model	Surface Material	Surface Finish	Surface Max. Magnetic Flux Density	Working Temperature	Load Resistance	Mass
PCMY-15	SUS304	#400 buffed	0.8T (8000G) min	Upper limit 80°C (176°F)	1,000kPa (10kgf/cm ²)	Approx. 4kg/8.8 lb
PCMY-T15				Upper limit 150°C (302°F)		

MAGNETIC HOLDERS

MAGNETIC TOOLS

MAGNETIC TOOLS FOR WELDING OPERATION

LIFTING MAGNET

MAGBORE

CHIP & SLUDGE TRANSPORTERS

ENVIRONMENTAL EQUIPMENT

MAGNETIZERS AND DEMAGNETIZERS

MAGNETIC EQUIPMENT FOR TRANSPORTATION

MAGNETIC SEPARATORS

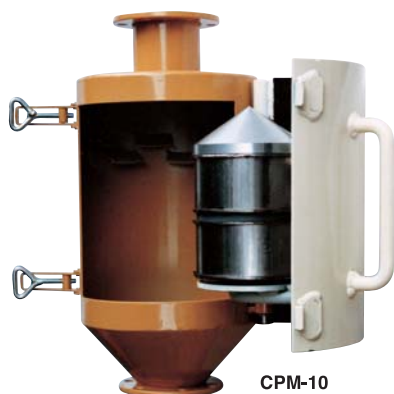
HIGH GRADE MAGNETIC SEPARATORS

MEASURING INSTRUMENTS

MAGNETIC MATERIALS

Model CPM TUBULAR TYPE MAGNETIC SEPARATOR

CPM sanitary specification



CPM-10

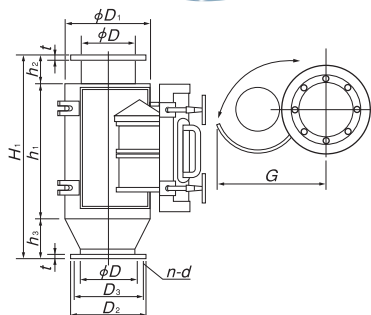
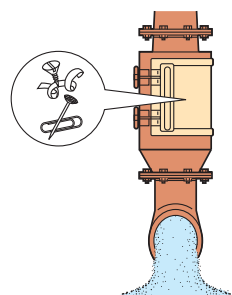


[Application]

A tubular separator incorporating a powerful columnar permanent magnet. When this separator is installed in a system to flow such nonmagnetic substances as powder and bulk materials, mixed iron pieces, etc. can be removed. This separator has a construction suitable for vertical falling flow operations.

[Features]

- Eight models are available by cylinder sizes to meet various mounting shapes.
- The magnet is housed in a robust steel tube for protection against impacts by powder and bulk materials.
- The opening hatch facilitates removal of iron pieces.
- While the iron-removal rate is very high, the installation cost is low and almost no running cost is required.
- The transfer line and processing equipment are protected against damage by iron pieces.
- Possible spark formation of powder and bulk materials can be prevented.
- The quality and purity can be increased and reliability can be enhanced.



[mm (in.)]

Model	Flow Capacity	External Dimensions										Mass	
		ϕD	ϕD_1	H	h_1	h_2	h_3	ϕD_2	D_3	n-d	t		G
CPM- 5	1 m³/h	61 (2.40)	145 (5.70)	310 (12.2)	195 (7.67)	50 (1.96)	65 (2.55)	130 (5.11)	105 (4.13)	6 (0.23) - ϕ 10 (0.39)	8 (0.31)	200 (7.87)	6kg/ 13 lb
CPM-10	2.5m³/h	102 (4.01)	220 (8.66)	570 (22.4)	370 (14.5)	70 (2.75)	130 (5.11)	190 (7.48)	155 (6.10)			300 (11.8)	20kg/ 44 lb
CPM-15	6 m³/h	165 (6.49)	275 (10.8)	680 (26.7)	430 (16.9)	100 (3.93)	150 (5.90)	265 (10.4)	230 (9.05)			310 (12.2)	22kg/ 48 lb
CPM-20	10 m³/h	216 (8.50)	345 (13.5)	790 (31.1)	520 (20.4)		170 (6.69)	320 (12.6)	280 (11.0)			390 (15.3)	30kg/ 66 lb
CPM-25	15 m³/h	267 (10.5)	435 (17.1)	950 (37.4)	580 (22.8)		270 (10.6)	385 (15.2)	345 (13.5)	12 (0.47) - ϕ 10 (0.39)	485 (19.1)	45kg/ 99 lb	
CPM-30	20 m³/h	319 (12.5)	485 (19.1)	1000 (39.3)	600 (23.6)		300 (11.8)	430 (16.9)	390 (15.3)		680 (26.7)	60kg/ 132 lb	
CPM-40	35 m³/h	406 (15.9)	620 (24.4)	1100 (43.3)	700 (27.5)	12 (0.47) - ϕ 10 (0.39)	540 (21.2)	495 (19.4)	605 (23.8)		715 (28.2)	85kg/ 187 lb	
CPM-50	55 m³/h	508 (20.0)	780 (30.7)	1200 (47.2)	780 (30.7)		320 (12.6)	655 (25.7)			885 (34.8)	110kg/ 242 lb	

※A sanitary spec version is also available upon request.

MEASURING INSTRUMENTS

Model TM TESLA METER

Meter in Compliance with New Measurement Law

Measuring data output function incorporated



TM-701

The TESLA meter is a practical, handy type Gaussmeter having digital display that has been developed based on KANETEC's long experience and achievements in the manufacture of magnetism-applied products.

From the user's point of view, this meter is designed for easy use by anyone by incorporating frequently used functions only.

The external output terminal is also provided to enable digital or analog outputs. Further, the probe has been made smaller for measurement in smaller space.

[Application]

- Measurement of residual magnetism in machined workpieces.
- Measurement of magnetic flux in magnetism-applied products.

[Features]

- A wide range of measuring range from 0 to 3000 mT (0 — 30,000 G). (DC)
- The battery life has been increased by about 30%.
- The rigidity of the probe has been increased.
- The meter can be operated with a chargeable battery also.
- By connecting an optional cable (TM-601DTC) to the external output terminal, digital (analog possible) data can be transferred to a PC.
- The alternate magnetic flux density, in addition to direct magnetic flux density, can be measured. (50/60 Hz)

- Measurement of magnetic flux of motors.
- Measurement of properties of magnetic materials.

- The high resolution measuring mode ensures more accurate measurement. (Resolution 0.01 mT = 0.1 G)
- The unit of display can be changed over between "mT" and "G".
- High dustproof by use of sheet keys.
- The auto power off function prevents useless waste of the battery.
- When the probe has been worn out, it can be replaced with a new one without troublesome calibration. (Optional)