

POWERFUL MAGNETIC SEPARATORS

Model PCMB Comparison of sanitary magnetic bars

Type	Model	Surface Max. Magnetic Flux Density	Working Temp. Upper Limit	Remarks
Powerful	PCMB	0.8 Tesla	80°C (176° F)	Standard type.
Fine pitch	PCMB-AM	1.0 Tesla		Pole area increased by 1.5 times. Catch amount and collection rate increased.
Super powerful	PCMB-A PCMB-UA	1.2 Tesla		
Semi heat-resistant	PCMB-QT	0.8 Tesla	150°C (302° F)	Low cost type.
Heat-resistant powerful	PCMB-T PCMB-AT		1.0 Tesla	240°C (464° F)
Wear resistant	PCMB-J	1.3 Tesla	80°C (176° F)	Highly resistant to wear and corrosion and longer life.
Double-pipe	PCMBD-A	0.8 Tesla		Double-pipe for easy cleaning of attracted iron powder.

*Note that if the separators are used in environment exceeding the working temperature upper limit, the attraction and holding power may drop due to reduction of magnetism.

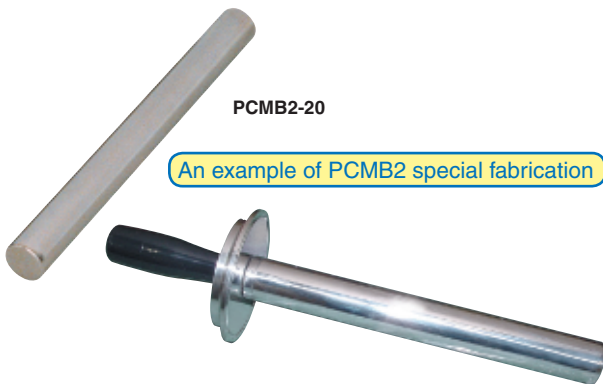
Model PCMB SANITARY MAGNETIC BAR

[Application]

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

[Features]

- High grade finish of sanitary specification.
- Various lengths are available for a desired combination.
- High power magnetic bars: 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 is incorporated and the surface maximum magnetic flux density is 0.8 T (8,000 G) or 1 T (10,000 G) or over.
- Since a permanent magnet that maintains a strong magnetic force almost perpetually is used, the running cost can be reduced significantly.
- These are of waterproof construction to allow installation in liquid.
- To increase the rate of removal of metallic powder of very weak magnetism, PCMB-U type that has a surface magnetic flux density of 1.2 T (12,000 G) is also available.
- Special sizes are also available.



Powerful magnetic bar

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temp. 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.

**For the models with tapped holes, the tapped hole is M6-P1.0 and 7 mm deep, located in the center on each end face. A model of M5, M8, M10 or M12 is also available.

**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 be deformed or broken. Therefore, for the safety reason, pipes of thickness thinner than the current thickness will not be manufactured.

Super powerful magnetic bar

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temp. Upper Limit	Mass					
Without tapped hole	With tapped hole	Length	Diameter	Material	Surface finish									
PCMB-A15	PCMB2-A15	145 (5.70)	φ25 (0.98)	SUS304	#400 buffed	Nd rare earth type Property value 1.35T(13,500G)	1T (10000G)	80°C (176° F)	0.5 kg/1.10 lb					
PCMB-A20	PCMB2-A20	194 (7.63)							0.7 kg/1.54 lb					
PCMB-A25	PCMB2-A25	244 (9.60)							0.9 kg/1.98 lb					
PCMB-A30	PCMB2-A30	295 (11.6)							1.1 kg/2.42 lb					
PCMB-A35	PCMB2-A35	343 (13.5)							1.2 kg/2.64 lb					
PCMB-A40	PCMB2-A40	393 (15.4)							1.4 kg/3.08 lb					
PCMB-A50	PCMB2-A50	493 (19.4)							1.8 kg/3.96 lb					
PCMB-A60	PCMB2-A60	592 (23.3)							2.1 kg/4.63 lb					
PCMB-U10A	PCMB2-U10A	95 (3.74)							φ25.1 (0.99)	SUS316L	#400 buffed	Nd rare earth type Property value 1.38T(13,800G)	1.2T (12000G)	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. (Models PCMB-A)

**For the models with tapped holes, the tapped hole is M6-P1.0 and 7 mm deep, located in the center on each end face. A model of M5, M8, M10 or M12 is also available.

**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 be deformed or broken. Therefore, for the safety reason, pipes of thickness thinner than the current thickness will not be manufactured.

Fine pitch powerful magnetic bar

[mm (in)]

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temp. 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 Property value 1.35T (13,500G)	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)							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. ※For the models with tapped holes, the tapped hole is M6-P1.0 and 7 mm deep, located in the center on each end face. A model of M5, M8, M10 or M12 is also available.

※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 be deformed or broken. Therefore, for the safety reason, pipes of thickness thinner than the current thickness will not be manufactured.

Semi heat-resistant powerful magnetic bar

[mm (in)]

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temp. 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 Property value 1.1T (11,000G)	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)							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. ※For the models with tapped holes, the tapped hole is M6-P1.0 and 7 mm deep, located in the center on each end face. A model of M5, M8, M10 or M12 is also available.

※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 be deformed or broken. Therefore, for the safety reason, pipes of thickness thinner than the current thickness will not be manufactured.

Heat-resistant powerful magnetic bar

[mm (in)]

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temp. 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	Sm rare earth type Property value 1.1T (11,000G)	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)							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. ※For the models with tapped holes, the tapped hole is M6-P1.0 and 7 mm deep, located in the center on each end face. A model of M5, M8, M10 or M12 is also available.

※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 be deformed or broken. Therefore, for the safety reason, pipes of thickness thinner than the current thickness will not be manufactured.

Heat-resistant super powerful magnetic bar

[mm (in)]

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temp. Upper Limit	Mass
Without tapped hole	With tapped hole	Length	Diameter	Material	Surface finish				
PCMB-AT10	PCMB2-AT10	95 (3.74)	φ25.1 (0.99)	SUS316L	#400 buffed	Sm rare earth type Property value 1.2T (12,000G)	1T (10000G)	240°C (464° F)	0.35kg/0.77 lb
PCMB-AT15	PCMB2-AT15	145 (5.70)							0.5 kg/1.10 lb
PCMB-AT20	PCMB2-AT20	194 (7.63)							0.7 kg/1.50 lb
PCMB-AT25	PCMB2-AT25	244 (9.60)							0.85kg/1.87 lb
PCMB-AT30	PCMB2-AT30	295 (11.6)							1.05kg/2.31 lb
PCMB-AT35	PCMB2-AT35	343 (13.5)							1.2 kg/2.64 lb
PCMB-AT40	PCMB2-AT40	393 (15.4)							1.4 kg/3.08 lb
PCMB-AT50	PCMB2-AT50	493 (19.4)							1.75kg/3.85 lb
PCMB-AT60	PCMB2-AT60	592 (23.3)							2.1 kg/4.63 lb

※A casing pipe of SUS316 is also available. ※For the models with tapped holes, the tapped hole is M6-P1.0 and 7 mm deep, located in the center on each end face. A model of M5, M8, M10 or M12 is also available.

※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 be deformed or broken. Therefore, for the safety reason, pipes of thickness thinner than the current thickness will not be manufactured.

Model PCMB-J WEAR-RESISTANT SANITARY MAGNETIC BAR

Magnetic force exceeding 1.3 Tesla!



PCMB2-J20A

An example of incorporation of PCMB-J

[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 less frequent replacement for economical operations.

[mm (in)]

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temp. Upper Limit	Mass
Without tapped hole	With tapped hole	Length	Diameter	Material	Surface finish				
PCMB-J10A	PCMB2-J10A	95 (3.74)	φ24.8 (0.97)	SUS316L	#400 buffed + Titanium coating	Nd rare earth type Property value 1.4T (14,000G)	1.3T (13000G)	80°C (176° F)	0.3kg/0.66 lb
PCMB-J15A	PCMB2-J15A	145 (5.70)							0.5kg/1.10 lb
PCMB-J20A	PCMB2-J20A	194 (7.63)							0.7kg/1.50 lb
PCMB-J25A	PCMB2-J25A	244 (9.60)							0.9kg/1.98 lb
PCMB-J30A	PCMB2-J30A	295 (11.6)							1.1kg/2.42 lb
PCMB-J35A	PCMB2-J35A	343 (13.5)							1.2kg/2.64 lb
PCMB-J40A	PCMB2-J40A	393 (15.4)							1.4kg/3.08 lb

※For the models with tapped holes, the tapped hole is M6-P1.0 and 7 mm deep, located in the center on each end face.

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