

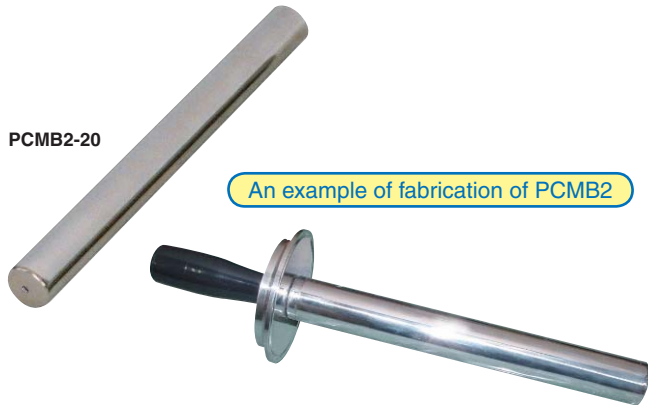
# HIGH GRADE MAGNETIC SEPARATORS

## 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	1.2Tesla		
Semi heat-resistant	PCMB-QT	0.8Tesla	150°C	Low cost type.
Heat-resistant powerful	PCMB-T		240°C	Highest working temperature upper limit in this Series.
	PCMB-AT	1.0Tesla		
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.

\*Please take note that the attractive force may be lowered by reduction of magnetism in case it is used under the circumstances of over the limitation of ambient temperature.

## Model PCMB SANITARY TYPE MAGNETIC BAR



### [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

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 <sup>ø1</sup> (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.

## Super powerful magnetic bar

Model		Casing Pipe				Built-in Permanent Magnet	Surface Max. Magnetic Flux Density	Working Temperature Upper Limit	Mass [mm(in)]					
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. (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.