

Permanent Plate Magnet

At A Glance



Protection: Primary



Feed Type: Conveyor



Material Type: Ferrite



Cleaning Type: Manual

Permanent plate magnets are used in recycling, quarrying and heavy industries. These units can be placed above flat or trough type conveyors. Large permanent magnetic packs generate deep penetrating magnetic flux fields that attract and remove 'tramp' type steel items.

This unit is considerably less expensive than electro-magnetic units and, as it has no running costs other than cleaning, much cheaper to run. When considering installation points it should be noted that steel belt support rollers will need to be changed to non-magnetic ones due to possible flux field absorption. For heavily contaminated materials consider the self cleaning permanent magnetic overband.



Benefits

- High volume capacity
- Allows difficult products to be screened
- Designed for 24 / 7 operation
- Removes large to medium sized contamination

Performance

Magnetic Performance	3,000 Gauss
Magnetic field depth	100 Series = 100mm*, 200 Series = 200mm* 300 Series = 300mm*
Temperature	-40°C / +80°C

Suitability

Suitable Products	All conveyable products, wood chip, biomass, recyclables, aggregates, coal etc
Suitable Location	Above transfer conveyors, vibratory feeder outlets etc

Materials

Magnetic Material	Ceramic strontium ferrite
Cover	304 grade stainless steel
Back plate	Painted mild steel
Lifting points	Four threaded holes

Cleaning

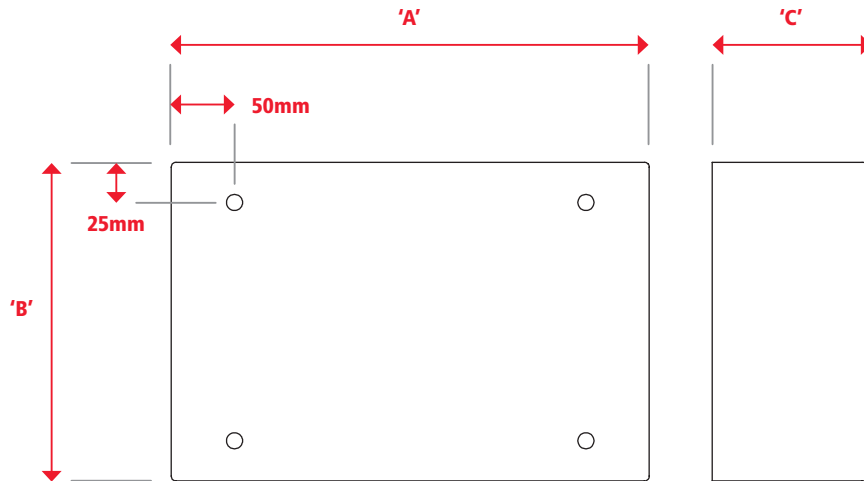
The magnetism cannot be switched off so cleaning has to be done manually using either a scraper tool or gloved hand. To aid cleaning, plate magnets can be supplied with a sliding cleaning plate.

Options

- Sliding cleaning plate
- Full stainless steel cover
- Forged lifting eyes
- Protective paint coating

*Mild steel test piece \varnothing 5mm x 25mm long

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Part Number (100 Series)	Length A (mm)	Width B (mm)	Depth C (mm)	Thread	Weight (kg)
PM3020	300	200	100	M12	40
PM4020	400	200	100	M12	50
PM5020	500	200	100	M12	65
PM6020	600	200	100	M12	85
PM7020	700	200	100	M12	95
PM8020	800	200	100	M12	105
PM9020	900	200	100	M12	120
PM10020	1000	200	100	M12	135

Part Number (200 Series)	Length A (mm)	Width B (mm)	Depth C (mm)	Thread	Weight (kg)
PM4040	400	400	200	M16	220
PM5040	500	400	200	M16	265
PM6040	600	400	200	M16	320
PM7040	700	400	200	M16	370
PM8040	800	400	200	M16	420
PM9040	900	400	200	M16	470
PM10040	1000	400	200	M16	530

Part Number (300 Series)	Length A (mm)	Width B (mm)	Depth C (mm)	Thread	Weight (kg)
PM6080	600	800	300	M20	730
PM7080	700	800	300	M20	850
PM8080	800	800	300	M20	970
PM9080	900	800	300	M20	1100
PM10080	1000	800	300	M20	1200
PM12580	1250	800	300	M20	1450

For non-standard sizes, please contact sales@eclipsemagnetics.com