

# 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 = 4" *, 200 Series = 8" * 300 Series = 12" *
Temperature	-40°F / +176°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.

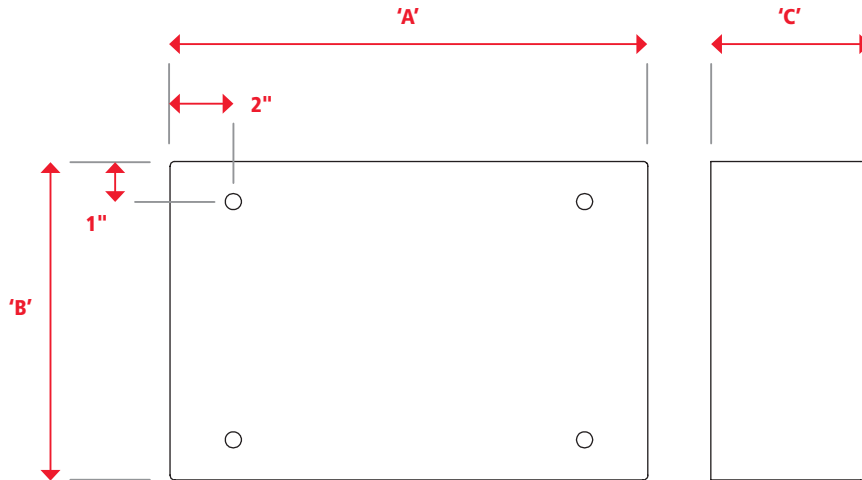
## Options

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

\*Mild steel test piece  $\varnothing$ 0.2 inches x 1.0 inches long



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Part Number (100 Series)	Length A (inches)	Width B (inches)	Depth C (inches)	Thread	Weight (lbs)
PM3020	12	8	4	M12	88
PM4020	16	8	4	M12	110
PM5020	20	8	4	M12	143
PM6020	24	8	4	M12	187
PM7020	28	8	4	M12	209
PM8020	31	8	4	M12	231
PM9020	35	8	4	M12	265
PM10020	39	8	4	M12	298

Part Number (200 Series)	Length A (inches)	Width B (inches)	Depth C (inches)	Thread	Weight (lbs)
PM4040	16	16	8	M16	485
PM5040	20	16	8	M16	584
PM6040	24	16	8	M16	705
PM7040	28	16	8	M16	816
PM8040	31	16	8	M16	926
PM9040	35	16	8	M16	1036
PM10040	40	16	8	M16	1169

Part Number (300 Series)	Length A (inches)	Width B (inches)	Depth C (inches)	Thread	Weight (lbs)
PM6080	600	800	300	M20	1609
PM7080	700	800	300	M20	1873
PM8080	800	800	300	M20	2139
PM9080	900	800	300	M20	2425
PM10080	1000	800	300	M20	2645
PM12580	1250	800	300	M20	3197



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