

Permanent Plate Magnet

High Intensity – Rare Earth

Datasheet No. 604



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 (datasheet 605).

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.

Suitable Products

All conveyable products, wood chip, biomass, recyclables, aggregates, coal etc.

Suitable Locations

Above transfer conveyors, vibratory feeder outlets etc.

Benefits

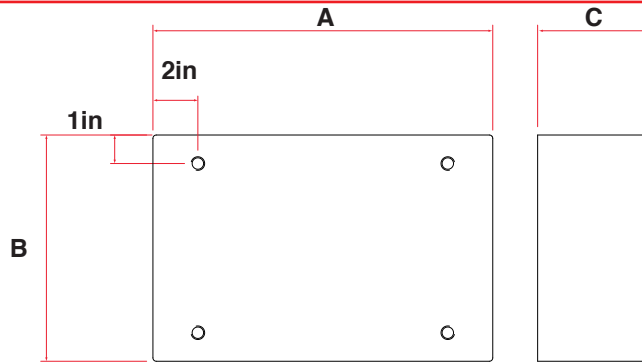
- Allows difficult products to be screened
- High volume capacity
- Designed for 24 / 7 operation
- Removes large to medium sized contamination

Category

Primary protection - tramp.



Technical Data



Product Information

Part Number	Length A inches	Width B inches	Depth C inches	Thread	Weight kg	Weight lb
100 Series						
PM3020	12	8	4	M12	40	88
PM4020	16	8	4	M12	50	110
PM5020	20	8	4	M12	65	143
PM6020	24	8	4	M12	85	187
PM7020	28	8	4	M12	95	209
PM8020	31	8	4	M12	105	231
PM9020	35	8	4	M12	120	265
PM10020	39	8	4	M12	135	298
200 Series						
PM4040	16	16	8	M16	220	485
PM5040	20	16	8	M16	265	584
PM6040	24	16	8	M16	320	705
PM7040	28	16	8	M16	370	816
PM8040	31	16	8	M16	420	926
PM9040	35	16	8	M16	470	1036
PM10040	40	16	8	M16	530	1169
300 Series						
PM6080	24	32	12	M20	730	1609
PM7080	28	32	12	M20	850	1873
PM8080	31	32	12	M20	970	2139
PM9080	35	32	12	M20	1100	2425
PM10080	40	32	12	M20	1200	2645
PM12580	50	32	12	M20	1450	3197

Performance

Magnetic material
Magnetic field depth

Ceramic strontium ferrite
100 Series = 4 inches*;
200 Series = 8 inches*;
300 Series = 12 inches*
-40°F / +176°F

Temperature

*Mild steel test piece 0.2 inch Ø × 1 inches long

Materials

Cover
Back plate
Lifting points

304 grade stainless steel
Painted mild steel
Four threaded holes

Options

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

If you have any more questions, require technical assistance or would like a quotation, please contact us.

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While every effort has been made to ensure the accuracy of the information in this publication please note that specifications may change without notice.