

MAGNETS FOR FOOD AND PHARMACEUTICAL INDUSTRY

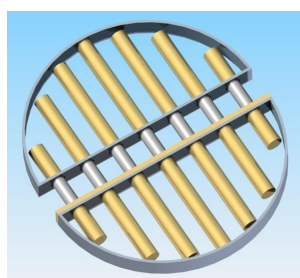
Metal pieces pose a safety risk to consumers and can damage processing equipment. Detection and removal of metal contaminants is becoming common practice in the food and pharmaceutical industry. One approach to reduce or eliminate Metallica contamination is the use of magnetic separators.

Metal contamination may come from a variety of sources including:

- Incoming ingredients and raw materials
- Processing equipment general abrasión or vibration Raising the loss of nuts and bolts
- Inadequate personnel practices and environmental causes

The most common magnetic separators used in the food and pharmaceutical industry:

Magnetic Separator Design	Description	Use
Magnetic Bars	Permanent non-electric magnetic units, can be used in a wide range of applications.	Remove metal contamination present in small, shallow quantities of flowing powder, granukles, fibers and liquids.
Magnetic Grids	Magnetic tubes designed in a grid configuration that allows the flow of materil to cascade though the grate. They spreads magnetic protection through cross-sectioned areas of equipment, such as pipes or hoppers.	Remove fine or relatively large pieces of metal contaminants.
Magnetic Tubes	Traps with tube magnets inside them, designed with an inlet port to match existing pipelines.	Remove metal pieces like Ealing wire or staples.



MAGNETIC SEPARATION

MAGNETIC BARS

TECHNICAL DATA SHEET

The magnetic bars are designed and manufactured by IDEMAG, ideal for protecting the equipment and capture small pieces of ferric contamination in raw materials. Thus avoiding unnecessary damage, such as stoppages for repairs and improve the quality of the raw material .

Main advantages:

- Extremely easy to install on your equipment to be protected.
- Cost of the bar very low, compared with the results.
- Unlimited warranty, under normal operating parameters.
- Satisfactory results both in working with dry and wet materials.
- Built in sturdy and durable stainless steel.
- Available in four different grades.

TABLE OF GRADES AND APPLICATIONS

GRADES	APPLICATIONS
Estandar	Elimination of big and large particles.
Especial 25	Elimination of very fine particles difficult to attract and retain.
Especial 34	Elimination of very thin and fine particles difficult to attract and retain.
Super especial 25	Elimination of weakly magnetic fine particles.



FEATURES

Grade	Magnet	Gauss	Pole Pitch
Estándar	Ferrita (Fe)	2.500	20+5
Especial 25	Neodimio (Nd)	7.500	10+10
Súper especial 25	Neodimio (Nd)	8.500	20+20
Especial 34	Neodimio (Nd)	7.500	10+10

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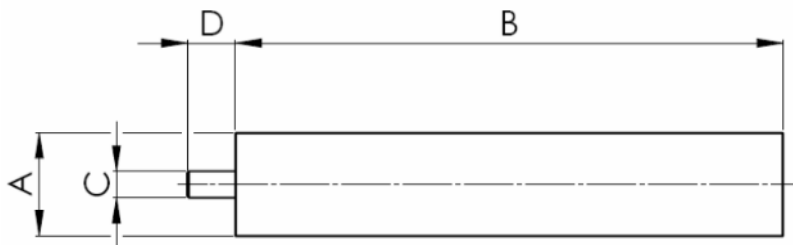
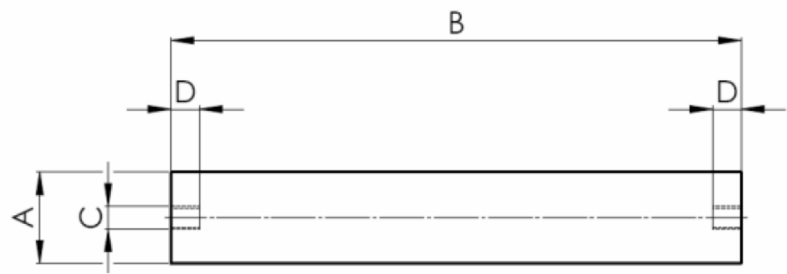
MAGNETIC SEPARATION

MAGNETIC BARS

TECHNICAL DATA SHEET

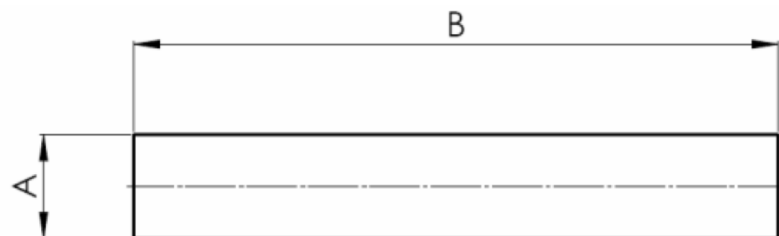
MAGNETIC BAR TYPES

With metric thread



With stud

Without metric thread or stud



Code	A	B	Estandar	Especial 25	Especial 34	Super especial 25
BM100	25/34	100				
BM200	25/34	200				
BM300	25/34	300				
BM400	25/34	400				
BM500	25/34	500				
BM600	25/34	600				
BM700	25/34	700				
BM800	25/34	800				
BM.900	25/34	900				
BM1000	25/34	1.000				

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MAGNETIC GRIDS

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The Magnetic Grids are specially designed for the separation and removal of iron particles from the raw materials into hoppers. Usually used in the industries of plastic, food or recycling of grainy or powdered material.

Very easy to install and easy to clean by taking off the grid from the hopper and removing all ferrous material attached to the grid with a glove or compressed air.

The grids are built with a magnetic circuit of Neodymium grade 35 that can bear a working temperature of 80 ° C. This is the standard but on request can be manufactured to bear 100 ° C, 120 ° C, 140 ° C, 160 ° C, 180 ° C and 200 ° C.

The standard diameter of the bars is 25 or 34 mm.

All our grids are watertight.

Our standard grids are built with two supports that are the central axis of the grid and holds the bars. If any bar gets damaged it is no need to change the whole grid, the bar can be removed from the racks and change it for a new one.

Construction:

Magnetic circuit constructed with Neodymium magnets or ceramic magnets.

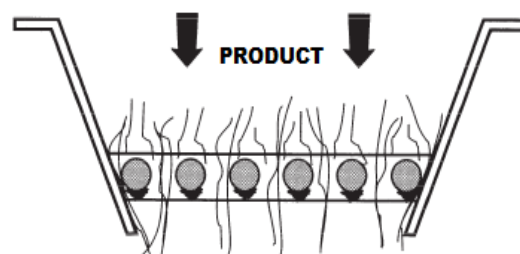
Tubes made in stainless steel.

Resistant design and high quality.

Options:

316L stainless steel

Special sizes on request



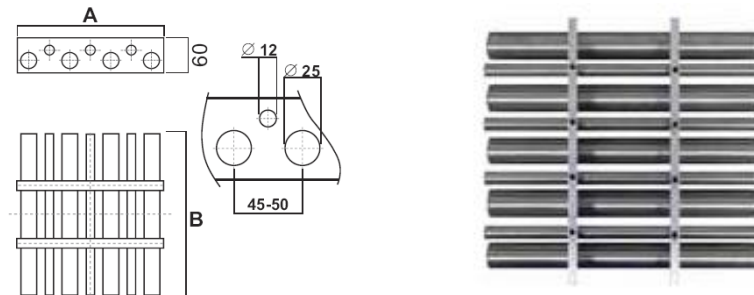
**FERROUS CONTAMINANTS
COLLECTS UNDER MAGNETIC
TUBES**

Installation

MAGNETIC GRIDS

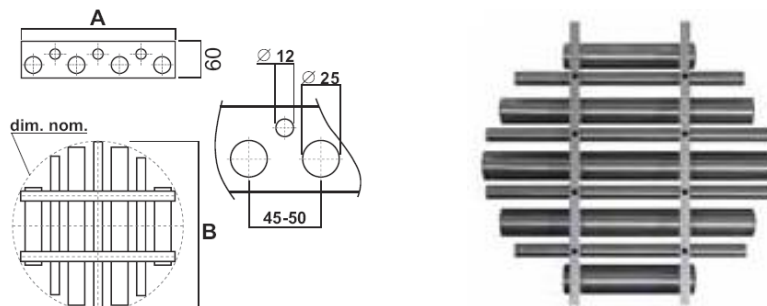
TECHNICAL DATA SHEET

Square type



Model	A	B	Num. Of Bars	Num. Of Supports	Gauss	Flow	Weight
RMN150150C2BF RMN150150C2BND	125	150	3	2	4000 8000	4 m ³	1,4 Kg
RMN200200C2BF RMN200200C2BND	175	200	4	2	4000 8000	6 m ³	2,7 Kg
RMN250250C2BF RMN250250C2BND	230	250	5	2	4000 8000	8 m ³	4,1 Kg
RMN300300C2BF RMN300300C2BND	280	300	6	2	4000 8000	10 m ³	5,7 Kg
RMN350350C2BF RMN350350C2BND	330	350	7	2	4000 8000	12 m ³	8,6 Kg
RMN400400C2BF RMN400400C2BND	395	400	8	2	4000 8000	16 m ³	12,1 Kg

Round type



Model	A	B	Num. Of Bars	Num. Of Supports	Gauss	Flow	Weight
RMN150150R2BF RMN150150R2BND	125	150	3	2	4000 8000	4 m ³	1,4 Kg
RMN200200R2BF RMN200200R2BND	175	200	4	2	4000 8000	6 m ³	2,7 Kg
RMN250250R2BF RMN250250R2BND	230	250	5	2	4000 8000	8 m ³	4,1 Kg
RMN300300R2BF RMN300300R2BND	280	300	6	2	4000 8000	10 m ³	5,7 Kg
RMN350350R2BF RMN350350R2BND	330	350	7	2	4000 8000	12 m ³	8,6 Kg
RMN400400R2BF RMN400400R2BND	395	400	8	2	4000 8000	16 m ³	12,1 Kg

MAGNETIC SEPARATION

MAGNETIC TUBES

TECHNICAL DATA SHEET

Introduction:

Magnetic tubes are ideal for removing ferrous contamination as nuts, screws, staples, etc. traveling with the raw material transported by pipelines.

This unit is designed to prevent that ferrous contamination can damage processing equipment such as blenders, granulators, mixers, crushers, etc.

The hub is a high intensity magnetic unit, installed in the center, inside a stainless steel housing, where the raw material flows and its mission is to attract and retain all the pollution that flows freely between the raw material.

The magnetic concentrator can incorporate, inside, both ceramic magnets or high intensity rare earth magnetic. This magnetic equipment is recommended to be used with materials such as dry grain powder.

Main characteristics:

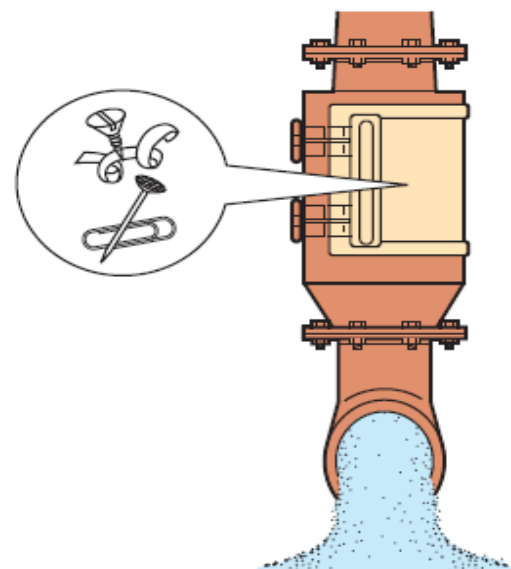
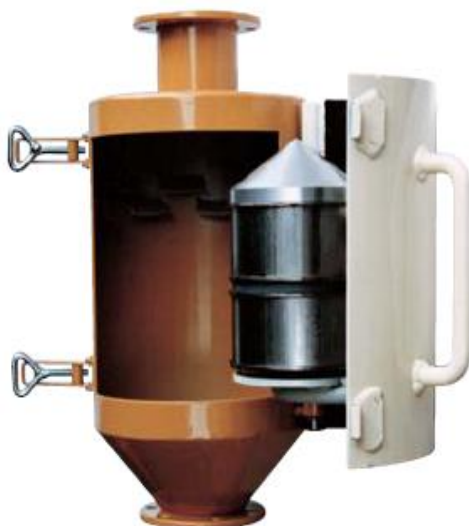
Magnetic concentrators with high magnetic intensity.

No maintenance is required, just clean up pollution in the magnetic concentrator.

Easy installation.

Without energy consumption.

Easy and fast cleaning.



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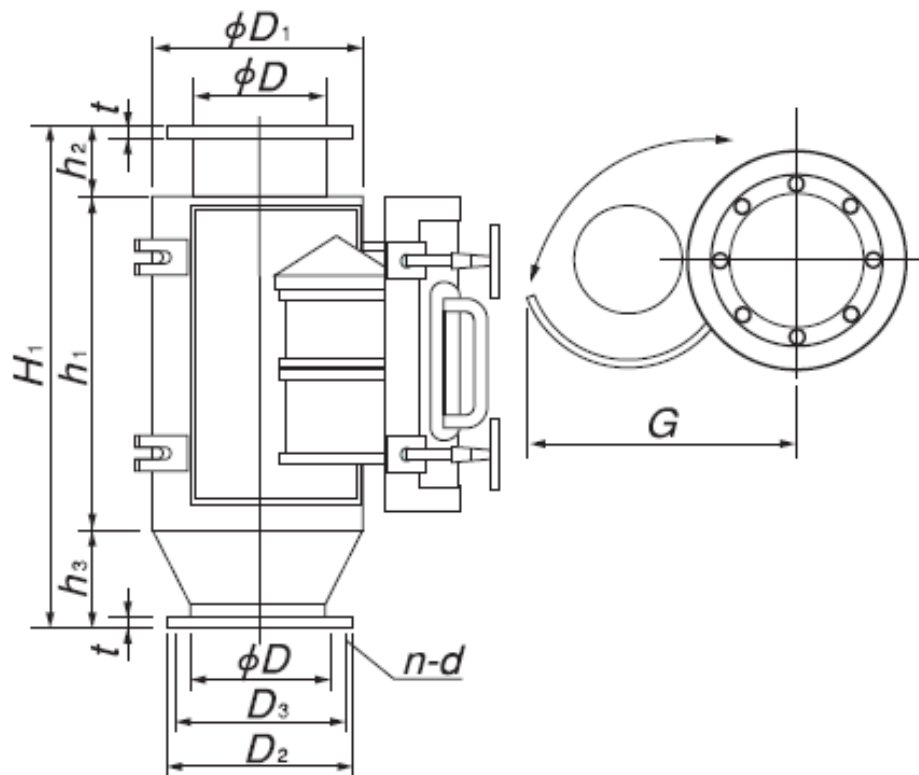
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MAGNETIC SEPARATION

MAGNETIC TUBES

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STANDARD MEASURES

Code	Capacity	ØD	ØD1	H	h1	t	G	ØD2	Weight
IDGTM-1	11 m ³ /h	100	220	570	554	8	371	160	17
IDGTM-2	25 m ³ /h	150	275	680	664	8	445	210	35
IDGTM-3	45 m ³ /h	200	345	790	774	8	571	260	80
IDGTM-4	70 m ³ /h	250	435	950	934	8	667	330	120
IDGTM-5	100 m ³ /h	300	485	1000	984	8	718	380	160
IDGTM-6	180 m ³ /h	400	620	1100	1080	10	1000	480	320
IDGTM-7	280 m ³ /h	500	780	1200	1180	10	1260	580	375

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