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MAGNETIC SEPARATORS

GREAT MAGTECH

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COMPANY PROFILE

In addition to high performance permanent magnets, GME is the leading global supplier of magnets and magnetic solutions for industrial, research and engineering applications, and strives to be the Great service leading provider worldwide.

Founded in 2000, GME was formed to advance development of magnet technology as an OEM wholesale supplier of permanent magnets and magnetic products. By interacting closely with its customers and focusing on a market-driven product line, GME has positioned itself to readily meet the challenges of today's dynamic global economy.

CUSTOMER CARE

Quality is our life. Customer satisfaction is our eternal pursuit. Everything we do at GME is driven by an unyielding passion for excellence in identifying and delivering solutions that exceed expectations.

INNOVATION

In today's fast-developing global economy, innovation is critical to a company's survival. Our heritage inspires us to keep innovative thinking all the time for continuous improvement.

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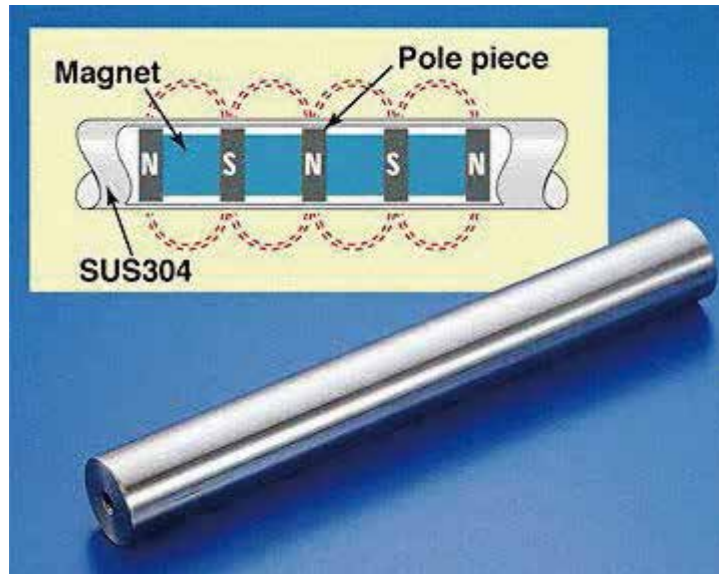
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Magnetic Bar

■ General Description

The magnetic rod is made of high quality stainless steel tube and rare earth alloy NdFeB, and is made by special production method. It can be combined on a holder to form a magnetic filter. When the iron-containing substance passes, it is attracted by the i-force bar, and the iron-containing substance is firmly adsorbed on the pipe wall of the magnetic bar to ensure the integrity of the equipment and the safety of the product.



■ Application

Factors Affecting Magnetic Force

The magnetic force on the surface of a magnetic bar is usually related to three factors:

1. Magnetic field line density of magnet surface.
2. Magnetic field gradient
3. Adsorbed metal foreign particles are heavy



Magnetic Bar

■ Specification

Magnetic strength	Working Temperature(°C)							
	4000GS	5000GS	6000GS	7000GS	8000GS	10000GS	11000GS	12000GS
Steel tube outside diameter								
Φ6(0.24")	180C	-	-	-	-	-	-	-
Φ8(0.31")	180C	-	-	-	-	-	-	-
Φ9(0.35")	180C	-	-	-	-	-	-	-
Φ10(0.39")	180C	-	-	-	-	-	-	-
Φ12(0.47")	180C	180C	-	-	-	-	-	-
Φ16(0.63")	180C	180C	180C	-	-	-	-	-
Φ19 (0.75")	180C	180C	180C	180C	-	-	-	-
Φ20.3(0.80")	180C	180C	180C	180C	-	-	-	-
Φ22 (0.85")	180C	180C	180C	180C	180C	-	-	-
Φ25 (1.00")	180C	180C	180C	180C	180C	180C	180C	180C
Φ32 (1.25")	180C	180C	180C	180C	180C	180C	180C	180C
Φ38 (1.50")	180C	180C	180C	180C	180C	180C	180C	180C
Φ50 (1.75")	180C	180C	180C	180C	180C	180C	180C	180C
Φ63(2.48")	180C	180C	180C	180C	180C	180C	180C	180C



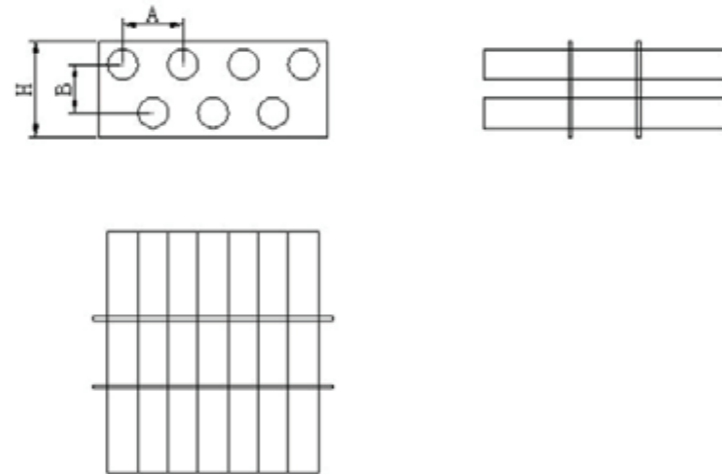
Magnetic Grate

■ General Description

Magnetic filter holder (Magnetic Grate) is mainly used to remove ferromagnetic impurities in powdery, granular raw materials and liquids or slurries. It is widely used in ceramics, electric power, mining, plastics, chemicals, rubber, pharmaceuticals, food, environmental protection, pigments, dyes, electronics, metallurgy and other industries. Can accept any size Gs custom, there are ordinary magnetic and easy to clean magnetic Grate respectively.

Square Magnetic Grate

■ Specification

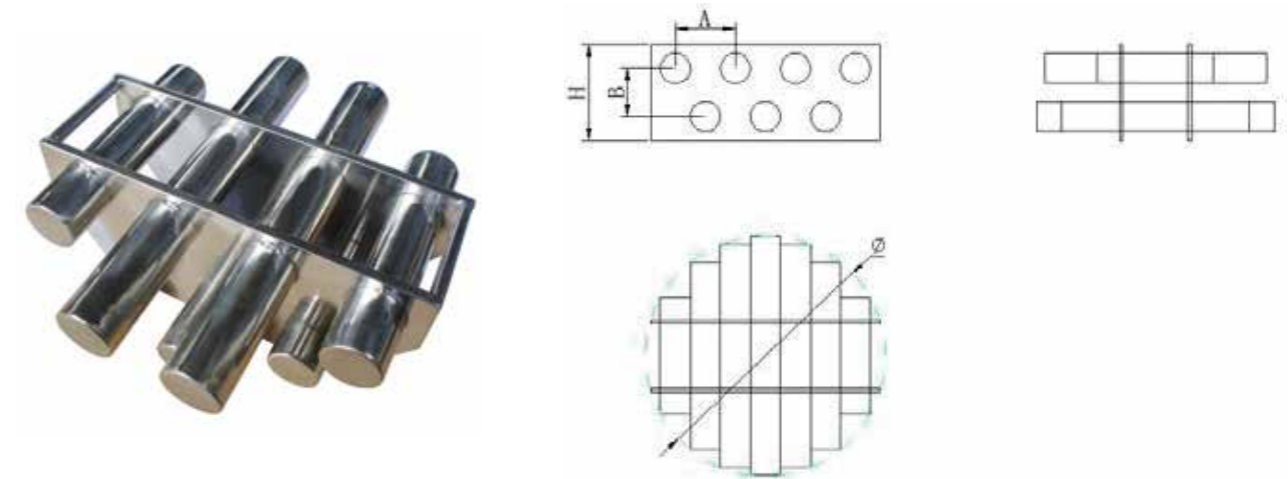


Magnetic grate size	Number of layers	Magnetic grate height H	Magnetic rod center distance A	Magnetic rod center distance B	Number of magnets
100*100	1	40	50mm	40mm	2
	2	80			3
150*150	1	40			3
	2	80			5
200*200	1	40			4
	2	80			7
250*250	1	40			5
	2	80			9
300*300	1	40			6
	2	80			11
350*350	1	40			7
	2	80			13
400*400	1	40	8		
	2	80	15		
450*450	1	40	9		
	2	80	17		
500*500	1	40	10		
	2	80	19		

Magnetic Grate

Round Magnetic Grate

■ Specification



Magnetic frame diameter Φ	Number of layers	Magnetic frame height h	Magnetic rod center distance A	Magnetic rod center distance B	Number of magnets
$\Phi 100$	1	40	50mm	40mm	2
	2	80			3
$\Phi 150$	1	40			3
	2	80			5
$\Phi 200$	1	40			4
	2	80			7
$\Phi 250$	1	40			5
	2	80			9
$\Phi 300$	1	40			6
	2	80			11
$\Phi 350$	1	40			7
	2	80			13
$\Phi 400$	1	40	8		
	2	80	15		
$\Phi 450$	1	40	9		
	2	80	17		
$\Phi 500$	1	40	10		
	2	80	19		

Magnetic Grate

■ Application

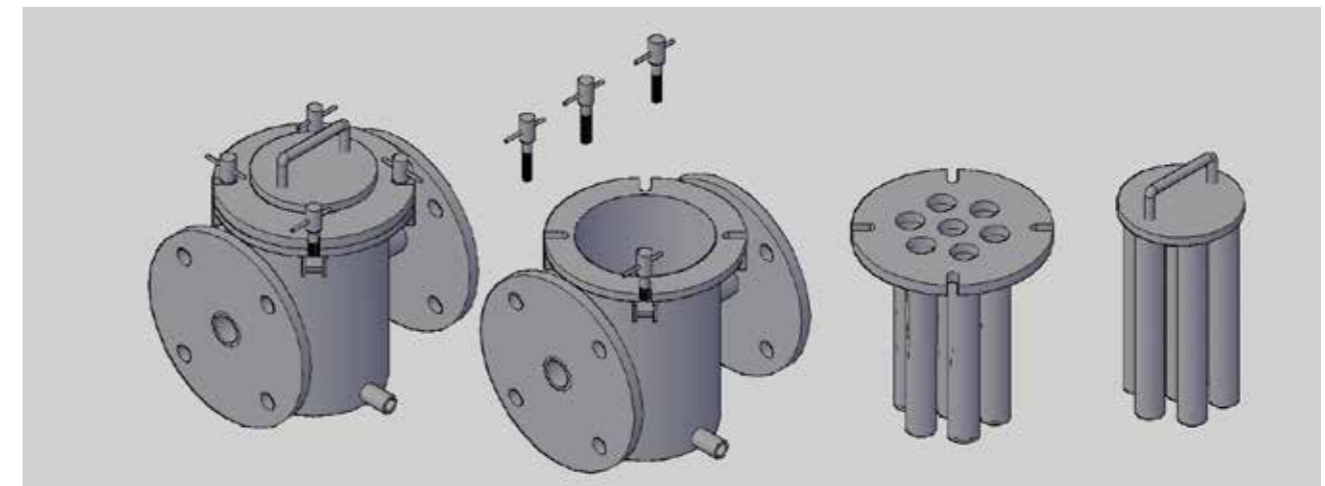
Hopper magnets can be installed in odd and irregular-shaped hoppers and ducts to remove small and fine iron from dry granule materials.



Magnetic Liquid Traps

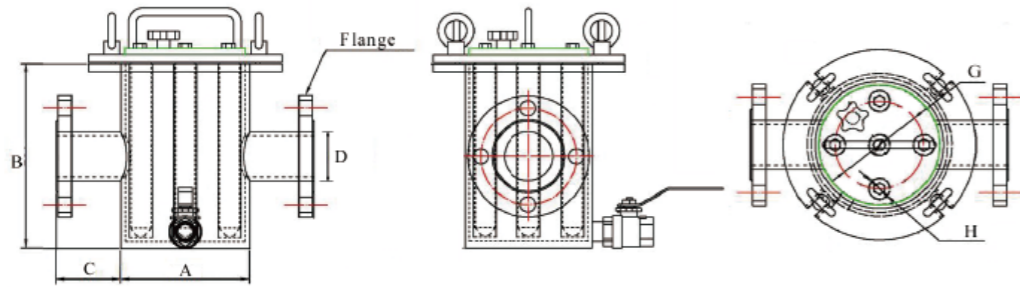
■ General Description

Magnetic Liquid Traps, also named as Magnetic Liquid Filters, are designed for removing ferrous contamination from liquid or semi-liquid materials with different viscosity, to keep materials purity and protect the equipment. E Style: The Maximum magnetic strength: 10000GS(0.8T)



Magnetic Liquid Traps

■ Specification



Item No.	Flange/Connector	A	B	C	D	G	H	Bar Quantity
JL-159032	DN32	Φ159	230	80	Φ39	Φ110	Φ25	5
JL-159040	DN40	Φ159	230	80	Φ46	Φ110	Φ25	5
JL-159050	DN50	Φ159	230	80	Φ59	Φ110	Φ25	5
JL-219065	DN65	Φ219	300	100	Φ78	Φ150	Φ25	7
JL-219080	DN80	Φ219	300	100	Φ91	Φ150	Φ25	7
JL-219100	DN100	Φ219	300	100	Φ110	Φ150	Φ25	7
JL-273125	DN125	Φ273	330	100	Φ135	Φ200&Φ100	Φ25	10
JL-273150	DN150	Φ273	330	100	Φ161	Φ200&Φ100	Φ25	10
JL-325200	DN200	Φ325	360	114	Φ222	Φ250&Φ125	Φ25	13
JL-377250	DN250	Φ377	420	116	Φ276	Φ300&Φ160	Φ25	15
JL426300	DN300	Φ426	460	118	Φ328	Φ340&Φ175	Φ25	17
JL480350	DN350	Φ480	510	120	Φ381	Φ380&Φ200	Φ25	19
JL630400	DN400	630	700	135	426		Φ25	21

Inlet and outlet sizes and specifications can be customized according to customer requirements.

■ Application

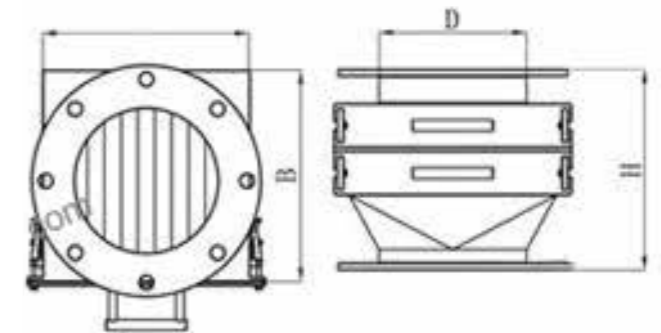


Drawer Magnet

■ General Description

No energy consumption, no pollution, simple structure, can be installed in the production pipeline or in the discharge port, saving space, easy to install, magnetic rods are arranged in an interlaced manner, and the magnetic spacing is carefully designed to make the strong magnetic area more fully utilized.

Pipeline type iron remover has many specifications, and the specific size can be designed and manufactured according to the actual situation of the customer.



Drawer Magnet

■ Specification

Item No.	Flange Type	A	B	C	D	F	G	Magnetic Bar Diameter	Magnetic Grate Layer	Magnetic Bar Quantity
FL10002	DN100	160	160	370	Ø110	50	70	Ø25	2	5
FL10003				440		50		Ø25	3	8
FL15002	DN150	220	220	370	Ø161	50	70	Ø25	2	7
FL15003				440		50		Ø25	3	11
FL20002	DN200	270	270	370	Ø222	50	70	Ø25	2	9
FL20003				440		50		Ø25	3	14
FL25002	DN250	330	330	370	Ø276	50	70	Ø25	2	11
FL25003				440		50		Ø25	3	17
FL30002	DN300	380	380	370	Ø328	50	70	Ø25	2	13
FL30003				440		50		Ø25	3	20

Inlet and outlet sizes and specifications can be customized according to customer requirements.

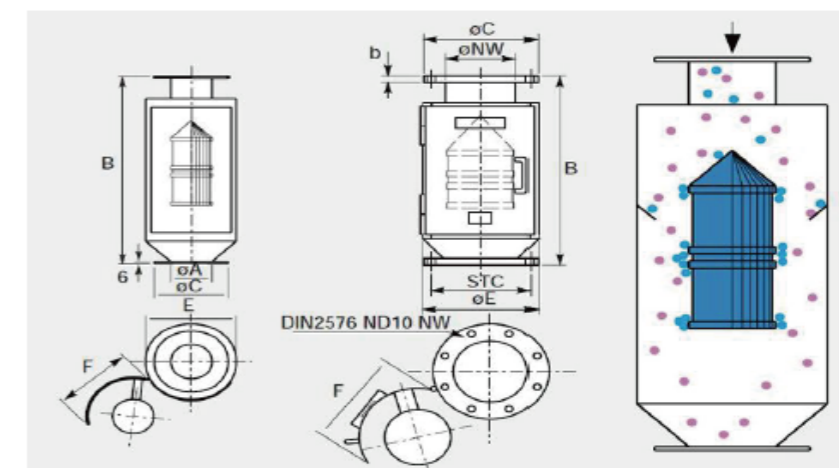
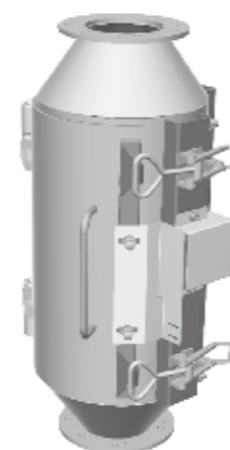
■ Application

- Food Products
- Ores Industries
- Refractory Industries
- Sand Industries
- Fertilizer Industries
- Salt Industries
- Plastic Industries
- Abrasive Industries
- Sawdust Industries
- Glass Industries
- Useful for any type of powder free flowing material.
- Plastic industries mineral industries, fertilizer industries,
- Sponge Iron Industries

Bullet Magnet

■ General Description

The material enters the Bullet type iron remover chamber and is dispersed by the internal magnetic core, while the mixed iron is adsorbed on the surface of the magnetic core, and the material continues to flow forward after being purified. When the iron remover door is opened, the iron impurities on the surface of the core can be removed.



■ Specification

Item No.	A	B	C	E	F	Capacity (t/h)
BM-100	100	550	180	220	240	6
BM-150	150	600	230	275	310	20
BM-200	200	650	280	345	405	50
BM-250	250	750	330	430	490	75
BM-300	300	850	400	485	550	100
BM-400	400	950	500	620	665	150
BM-500	500	1100	600	780	770	200

Inlet and outlet sizes and specifications can be customized according to customer requirements.

Hump Magnet

General Description

The device can effectively remove the iron impurities mixed in the wind conveying pipeline or the free falling material, and the two magnetic plates are respectively arranged on both sides of the V-shaped chute.

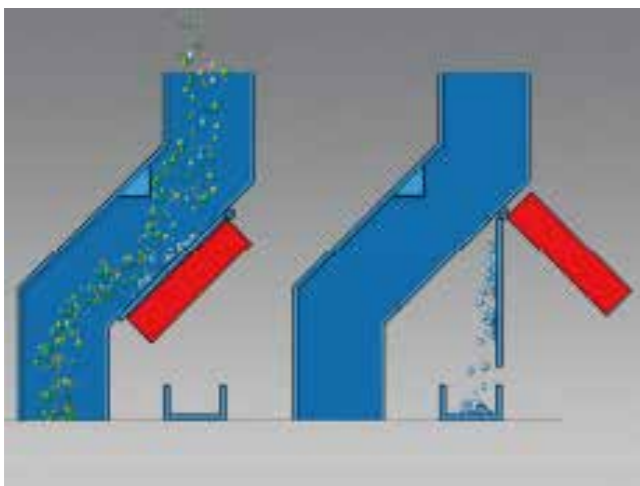
Ensure that the surface of the magnetic plate and the material are in full contact to enhance the iron removal effect.



Working Principle

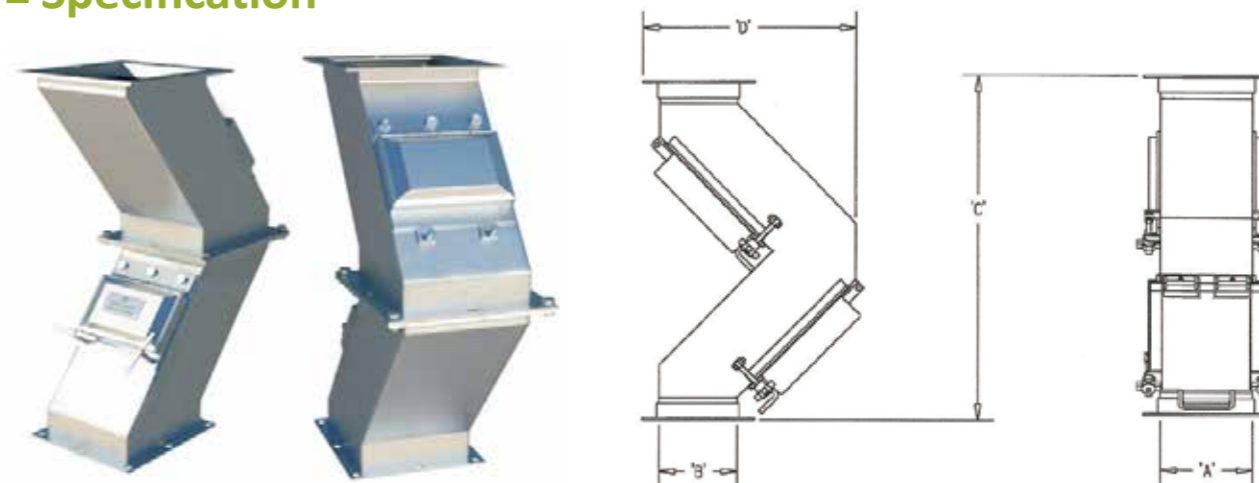
This equipment generally consists of two plate magnets fixed inside chute in zigzag Pattern.

As products pass through chute will face first plate, and then travels in zigzag pattern and fall on second plate magnet. This arrangement facilitate to separate ferrous material as it passes through magnetic plate. These magnetic plate are either hinged, latched, for clearing purpose.



Hump Magnet

Specification



Model		Spout		Dimension A		Dimension B		Dimension C		Dimension D		Capacity
Ceramic	NdFeB	Round/Square		inch/mm		inch/mm		inch/mm		inch/mm		CU/FT Hour
HMC8	HMN8	4	102	8	203	7	178	30	762	19	482	1200
HMC10	HMN10	6	152	10	254	7	178	30	762	19	482	2700
HMC16	HMN16	8	203	16	406	7	178	30	762	19	482	4800
HMC24	HMN24	10	254	24	610	7	178	30	762	19	482	7500
HMC30	HMN30	12	305	30	762	8	203	36	914	22.5	572	10800
HMC36	HMN36	14	358	36	914	8	203	36	914	22.5	572	14700
HMC48	HMN48	16	406	48	1219	8	203	36	914	22.5	572	19200

Inlet and outlet sizes and specifications can be customized according to customer requirements.

Application

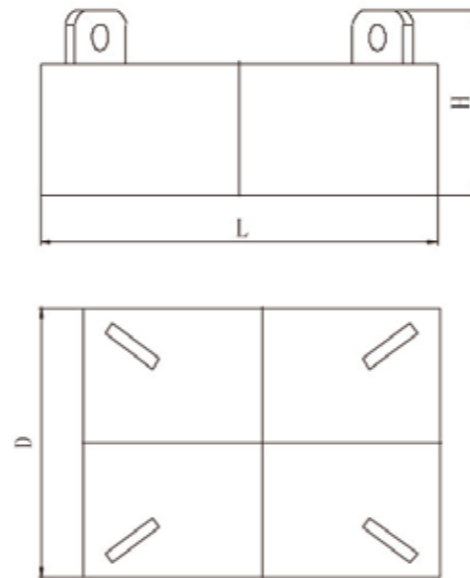
- Very good for all type of grain and pulses.
- Recycling material
- Vergin resins.
- Suger
- Textile
- Food Industries
- Plastic

Plat Magnet

General Description

Flush Face Plate Magnets have ideal metal separation performance when assembled over the flow chute or belt applications with low-density product flows. Downstream processing facilities will be under continuous magnetic protection because plate magnets can lift ferrous tramps out of the product flow stream.

Specification



Model	Adapt To Bandwidth mm	Rated Lifting Height h mm	Magnetic Field Strength mT	Material Thickness ≤mm	Adaptation Speed ≤ m/s	Weight kg	Dimensions mm		
							L	D	H
RCYB-4	400	125	70	60	4.5	105	400	300	220
RCYB-4-1	400	75	70	30		65	400	250	150
RCYB-5	500	150	70	90		198	500	350	260
RCYB-5-1	500	100	70	50		96	500	280	180
RCYB-6	600	175	70	120		295	600	450	280
RCYB-6-1	600	130	70	60		158	600	360	180
RCYB-6.5	650	200	70	150		380	650	600	300
RCYB-6.5-1	650	175	70	100		310	650	600	110
RCYB-8	800	250	70	200		550	900	800	360
RCYB-8-1	800	200	70	150		420	800	500	310
RCYB-10	1000	300	70	250		1180	1100	1000	380
RCYB-10-1	1000	250	70	200		510	1000	960	160
RCYB-12	1200	350	70	300		1670	1300	1300	420
RCYB-14	1400	400	70	350		2150	1500	1500	420
RCYB-16	1600	450	70	400		2850	1750	1750	460

Inlet and outlet sizes and specifications can be customized according to customer requirements.

Plate Magnet

Features

1. Plate with different magnetic action range and strong magnetic strength are available.
2. Easy cleaning and assembling.
3. Housing material is stainless steel 304 or 316L which is no pollution to materials.
4. Magnetic plate with different dimensions and extra parts like hinge, handle and mounting hole can be custom made.

Applications

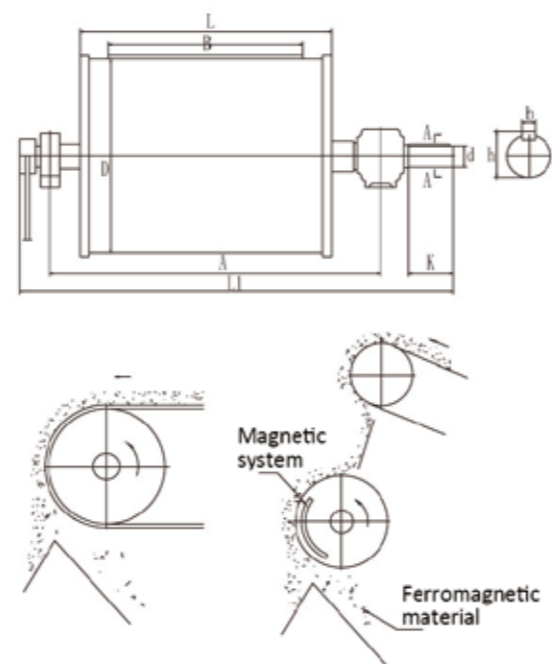
Plate magnet can remove tramp iron such as Bolts, Nuts, Bits of Wire, Nails and other casual impurities from free flowing materials, like gravel, corn, sugar, plastic, flour and other granular materials in the conveying course.



Magnetic Pulley

General Description

1. The drum body can be made from cheap ferrite magnets .The max magnetic strength can be up to 15000GS if made from powerful rare earth magnets.
2. Surface material is 304 or 316L stainless steel which is in good corrosion resistance.
3. No electric power required for magnetic field generation.
4. A special design for two ends of the pulley is in order to connect with a motor.
5. An automatic separation system can be formed if the pulley works together with the conveyor.
6. Special requirement can be custom made.



Magnetic Pulley

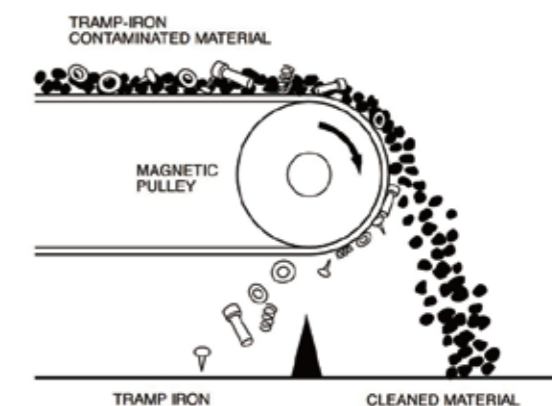
Specifications

Model	Bore Diameter D mm	Adapt Bandwidth B mm	Tube Length L mm	Highest Cylinder Induction Strength GS	Tube Length L mm	Powder Iron Removal Powder T/h	Weight kg	A	L1	K	dΦ	h	b
CTZ-32/40	320	400	500	1500~8000	0.8	10	120	728	1010	100	50	53.5	14
CTZ-32/50	320	500	600	1500~8000	1	15	150	850	1115	115	50	53.5	14
CTZ-40/50	400	500	600	1500~8000	2	20	240	850	1350	115			
CTZ-50/50	500	500	600	1500~8000	3.5	30	360				55	60	16
CTZ-32/65	320	650	750	1500~8000	2	20	210	1000	1350				
CTZ-40/65	400	650	750	1500~8000	2.8	30	350						
CTZ-50/65	500	650		1500~8000	4.5	40	420	1000	1630	135	60	64	18
CTZ-63/65	630	650		1500~8000	7	45	830				90	97	24
CTZ-40/80	400	800	950	1500~8000	8	55	470		1730		70	76	20
CTZ-50/80	500	800		1500~8000	10	65	600						
CTZ-63/80	630	800		1500~8000	10	80	800	1300		175			
CTZ-80/80	800	800		1500~8000	12	100	980		2000		90	97	24
CTZ-63/100	630	1000	1150	1500~8000	12	120	1200						
CTZ-80/100	800	1000	1150	1500~8000	15	140	1300	1500		215	110	119	32
CTZ-100/120	1000	1200	1400	1500~8000	20	180	1580	1750	2270	255	130	140	36
CTZ-125/140	1250	1400	1600	1500~8000	30	250	1950	2000	2555	275	150	161	40

Inlet and outlet sizes and specifications can be customized according to customer requirements.

Application

They always are placed at the head of conveyor belt to separate iron particle, iron scrap, tramp iron and other ferromagnetic objects from more bulk dry material flow such as iron ore, grain, sand, gravel, plastics, wood, waste, cullet, rubber, etc.



Quality Statement

Aiming at zero defect of the products, we have established a strict quality management system. From new product development, process design, raw material procurement, production process control and product inspection to packaging, we are strictly in line with the international quality management standard. Our company has gained ISO9001, TS16949 and other relevant certifications.

Certificates



Cooperative partner

Every bit of progress and success we have achieved depends on the trust and support of our partners!

