

The background of the cover is a deep space image featuring a bright, multi-colored star (yellow, orange, and blue) with prominent lens flare effects. A large, translucent red wireframe cube is superimposed over the scene, tilted at an angle. The background is filled with numerous small, distant stars and nebulae, creating a sense of vastness and depth.

Magnetic Separators

Magnet application equipment general catalog

NMI

Nippon Magnetics, Inc.



NIPPON M

MAGNETIC SEPARATORS

MAGNETICS



Deliver Something Small and Bring a Great Joy to Our Customer

Our company was founded in 1943 as Haramaki Iron Works. Later, the magnetic division was separated and Nippon Magnetics was established in 1983. Since then, we have been involved in research and development over 30 years, and have manufactured permanent magnet and electromagnetic devices that separate iron and iron powders.

Moreover, we're integrating more sophisticated technologies to improve efficiencies such as electrostatic and eddy current.

"Protection of environment" is the top priority in conducting our business, and our work begins from where we live and further broaden our perspective in the global arena. We strive toward improvement for higher separation efficiencies.

From solid materials to particle, from millimeters to microns, and even inside the world of nanotechnology

-- we would like to support our customers by providing a magnet applied technology and fine-tuned services that are tailored to the needs of individual customers.

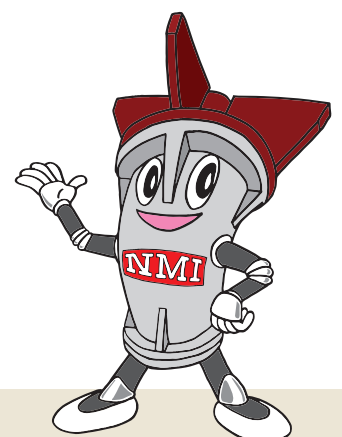


Nippon Magnetics, Inc.

Chairman, Keiji Haramaki

Magnetic separators and Equipment General Catalog

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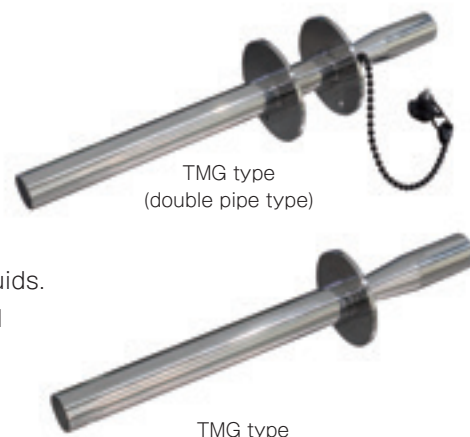
Tube Magnet

Features

Can be easily installed anywhere on the production line. Removes magnetic foreign matter. Removes magnetic metals.

Specification

- ① Since it is a stainless steel pipe, it can be used even in liquids.
- ② The length is in 1mm increments and can be manufactured according to your desired dimensions.
- ③ With magnetic force notation for HACCP and ISO use. It is also possible to attach an inspection report.
- ④ We can also process taps, male threads, and handles (TMG type).
- ⑤ Surface treatments such as ion nitriding, tungsten spraying, and Teflon processing are also available.



What? Does stainless steel attract to magnets?

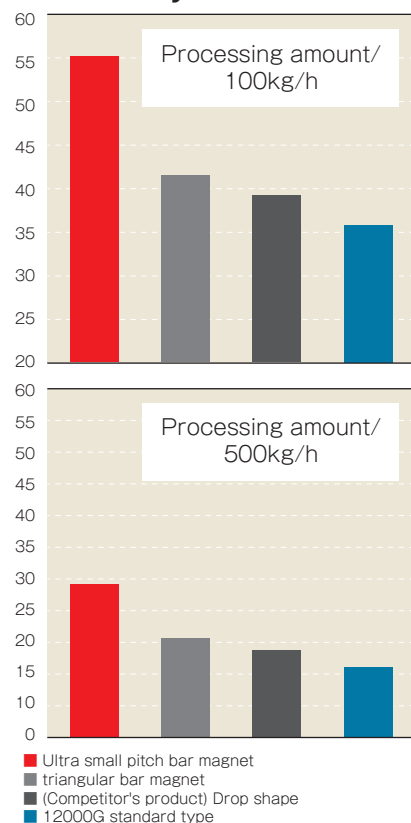
Most of the production lines in food factories are made of stainless steel, so metal foreign substances are shifting from iron to stainless steel. SUS304 and SUS316L, which are called austenitic materials, are originally non-magnetic and do not attract magnets, but they may be damaged by some kind of shock (for example, cutting, tearing, twisting, scraping, pressing, or surface polishing such as buffing) or by welding. - When friction is applied, plastic deformation occurs, which makes it magnetic and becomes attracted to a magnet.



NMI Tube Magnet Lineup

Model	Specification				
Tube Magnet	Outer diameter dimension	Surface Magnetic Flux Density	Material	Heatproof Temperature	Magnet Materials
15000 gauss	ϕ 25	1.5T (15,000G)	SUS316L	100℃	Neodymium magnet
14000 gauss	ϕ 24.2	1.4T (14,000G)	SUS304 SUS316L		
12000 gauss	ϕ 25	1.2T (12,000G)			
3000 gauss	ϕ 25	0.3T (3,000G)		150℃	Ferrite magnet
	ϕ 32	0.3T (3,000G)			
Heat Resistant Tube Magnet	ϕ 24.2	1.1T (11,000G)		200℃	Samarium-Cobalt
	ϕ 25	1.0T (10,000G)			
Small Pitch Tube Magnet	ϕ 24.2	1.2T (12,000G)		100℃	Neodymium magnet
Ultra Small Pitch Tube magnet	ϕ 24.2	1.0T (10,000G)			
20ϕ Tube Magnet (Small Pitch)	ϕ 20	1.2T (12,000G)			
20ϕ Tube Magnet		1.3T (13,000G)			
Hanging square bar magnet	□60×60	1.0T (10,000G)	SUS304		
	□25×25	1.0T (10,000G)			
Triangular Tube Magnet	△(25×30)	1.2T (12,000G)		Titanium	
Titanium Pipe Tube Magnet	ϕ 25.4	1.2T (12,000G)			
Titanium Pipe Tube Magnet (Small Pitch)		0.9T (9,000G)			
17000 gauss	ϕ 50	1.7T (17,000G)	SUS316L	80℃	

SUS304 powder: recovery test



*Magnetic flux density was measured using a Gaussmeter GM-4000 (Denshi Magnetic Industry) at room temperature. The measured value of the surface magnetic flux density varies depending on the manufacturer and model of the measuring instrument, the accuracy of the probe (Hall element), and the temperature. Therefore, there may be a difference between our measured values and your measured values.

Ideal for removing SUS foreign substances from raw materials (fine powder)! !

Ultra Small Pitch Tube Magnet

Wouldn't it be better if the magnetic force was stronger?

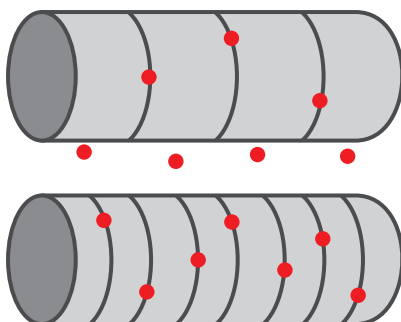
Only the magnetic poles on the surface of the tube magnet exert an attractive force on weak magnetic foreign objects. Foreign objects that pass through areas other than the magnetic poles are difficult to attract. Therefore, increasing the number of magnetic poles is extremely effective in improving the recovery rate of foreign substances, even if the surface magnetic force is somewhat small.



Standard pitch tube magnet



Ultra small pitch tube magnet



● magnetic foreign substances

Specification	
Outer diameter dimension	φ24.2
Surface magnetic flux density	1.0T (10,000G)
Length	100~2000mm
Material	SUS304,SUS316L
Heatproof temperature	100℃
Magnet material	Neodymium magnet

It is also possible to attract magnetic foreign substances that cannot be attracted with the standard type.

*Please feel free to contact us regarding dimensions other than those listed above.

*Magnetic flux density was measured using a Gaussmeter GM-4000 (Denshi Magnetic Industry) in an environment at room temperature. -The measured value of surface magnetic flux density varies depending on the manufacturer and model of the measuring instrument, the accuracy of the probe (Hall element), and the temperature. Therefore, there may be a difference between our measured values and your measured values.

Successful miniaturization of tube magnets!

20φ Small OD Tube Magnet



Ideal for final inspection before product shipment.

1.7 tesla Tube Magnet



Features

- Because the diameter is small, it is possible to increase the number of bar magnets in a grate magnet of the same size.

Purpose

- Can be used for various purposes such as inspection and recovery of weakly magnetic materials.

Features

- At 1.7 Tesla (17000 Gauss), weak magnetic substances are attracted.
- Ideal for the final inspection before product shipment.

12000 Gauss specification (small pitch)		13000 gauss specification	
Outer diameter dimension	φ20	Outer diameter dimension	φ20
Surface magnetic flux density	1.2T (12,000G)	Surface magnetic flux density	1.3T (13,000G)
Length	100mm~1000mm	Length	100mm~1000mm
Material	SUS304,SUS316L	Material	SUS304,SUS316L
Heatproof temperature	100℃	Heatproof temperature	100℃
Magnet material	Neodymium magnet	Magnet material	Neodymium magnet

*If the length is 1000mm or more, please contact us.

*Magnetic flux density was measured using a Gaussmeter GM-4000 (Denshi Magnetic Industry) in an environment at room temperature. The measured value of the surface magnetic flux density varies depending on the manufacturer and model of the measuring instrument, the accuracy of the probe (Hall element), and the temperature. Therefore, there may be a difference between our measured values and your measured values.

Specification	
Outer diameter dimension	φ50
Surface magnetic flux density	1.7T (17,000G)
Length	100~1000mm
Material	SUS316L
Heatproof temperature	80℃
Magnet used	Neodymium magnet

*Please feel free to contact us regarding dimensions other than those listed above.

*Magnetic flux density was measured using a Gaussmeter GM-4000 (Denshi Magnetic Industry) in an environment at room temperature. The measured value of the surface magnetic flux density varies depending on the manufacturer and model of the measuring instrument, the accuracy of the probe (Hall element), and the temperature. Therefore, there may be a difference between our measured values and your measured values.

Can be used even at temperatures of 200°C! !

Heat Resistant Tube Magnet

Can be used at high temperatures

Heat resistant tube magnets(Nd-based) usually have an upper temperature of 120 to 150°C. Once the temperature returns to room temperature, the magnetism will return to its original level, but in that environment, the magnetism will be lower than expected. On the other hand, Sm-based heat-resistant tube magnets have the advantage of less loss of magnetic force.

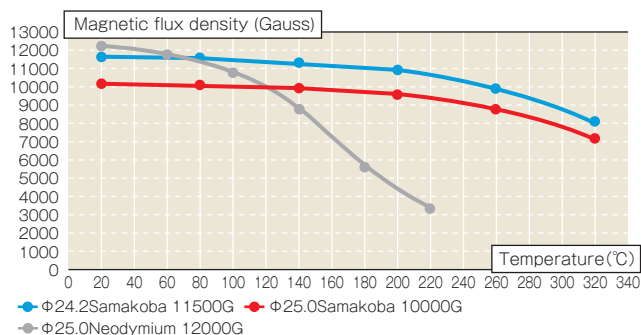
Specification					
Outer diameter dimension	Surface magnetic flux density	Length	Material	Heatproof temperature	Magnet material
φ24.2	1.1T(11,000G)	100~2000mm	SUS304	200°C	Samakoba magnet
φ25	1.0T(10,000G)		SUS316L		

*Please feel free to contact us regarding dimensions other than those listed above.

*Magnetic flux density was measured using a Gaussmeter GM-4000 (Denshi Magnetic Industry) in an environment at room temperature.

The measured value of the surface magnetic flux density varies depending on the manufacturer and model of the measuring instrument, the accuracy of the probe (Hall element), and the temperature. Therefore, there may be a difference between our measured values and your measured values.

Changes in magnetic flux density due to operating temperature

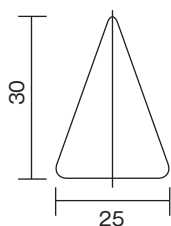


Effective for powder raw materials that tend to accumulate! !

Triangular Tube Magnet

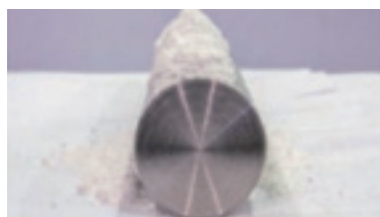
Effective for powder raw materials that tend to accumulate. Since it is difficult to accumulate, the iron removal effect is increased.

Specification					
Outer diameter dimension	Surface magnetic flux density	Length	Material	Heatproof temperature	Magnet material
△(25×30)	1.2T(12,000G)	100~1000mm	SUS304	100°C	neodymium magnet

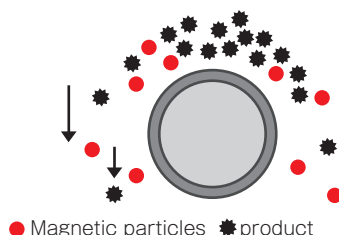


In response to requests from many users, we have resumed production of triangular bar magnets for the first time in over ten years.

For standard tube magnets

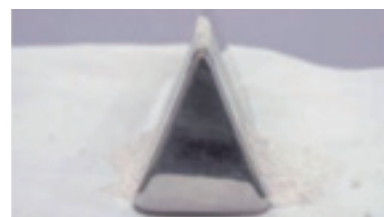


Raw materials accumulate and the magnetic material is missed.

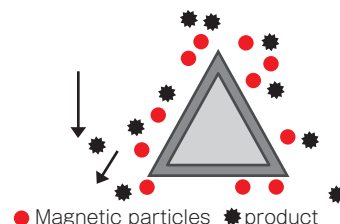


● Magnetic particles ● product

For triangular tube magnets



Because raw materials are difficult to accumulate, magnetic materials are not missed.



● Magnetic particles ● product

*Please feel free to contact us regarding dimensions other than those listed above.

*Magnetic flux density was measured using a Gaussmeter GM-4000 (Denshi Magnetic Industry) in an environment at room temperature.

The measured value of the surface magnetic flux density varies depending on the manufacturer and model of the measuring instrument, the accuracy of the probe (Hall element), and the temperature. Therefore, there may be a difference between our measured values and your measured values.

Suspended Tube Magnet for Hanging

Product explanation video
From here



World First! (Patented)

Tube magnets have a strong surface magnetic force, but the magnetic flux does not spread far. On the other hand, suspended tube magnets can maintain a strong magnetic field. Therefore, even when used hanging, the effect was not great. We have developed a hanging rectangular bar magnet for removing fine iron powder that maintains high magnetic flux density even when suspended over a conveyed object at a certain distance.

Specification						
Outer diameter dimension	Surface magnetic flux density	Length	5mm lower magnetic flux density	Material	Heatproof temperature	Magnet material
□60×60	1.0T (10,000G)	100~1600mm	0.5T (5,000G)	SUS304	100℃	neodymium magnet
□25×25		100~2000mm	0.3T (3,000G)			



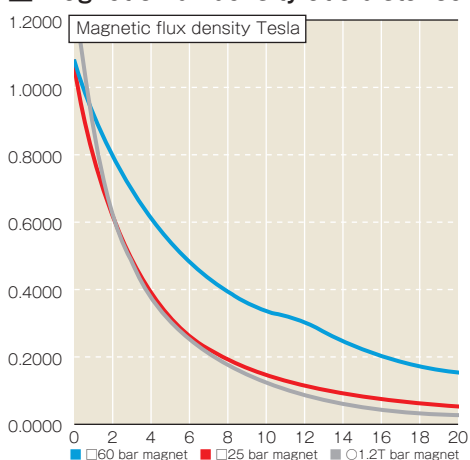
Purpose

Suspended over film-like or dough-like raw materials. Can also be installed on a belt conveyor.

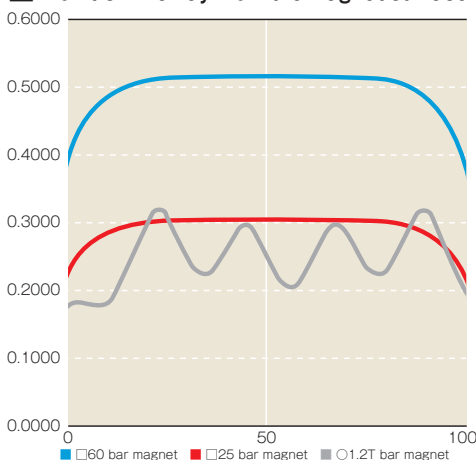
Features

This is a first-of-its-kind tube magnet developed for the purpose of hanging above the conveyed object. Unlike the conventional type, it can be installed with no gap between poles, which greatly improves the recovery rate.

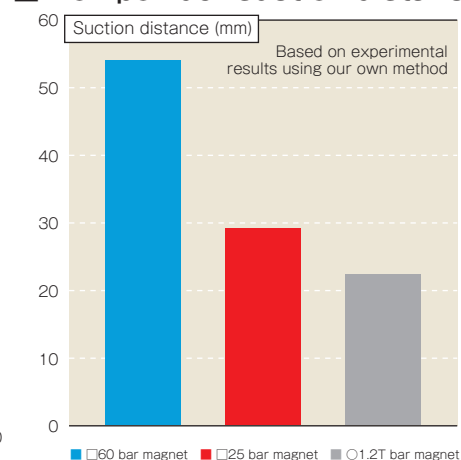
Magnetic flux density at a distance



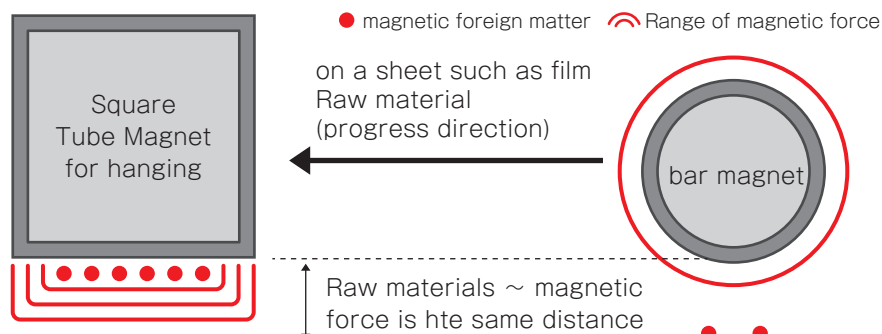
Point 5mm away from the magnet surface



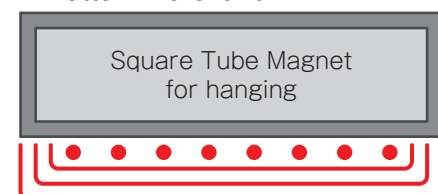
Iron powder suction distance



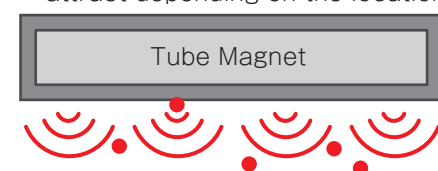
□25 and standard O1.2T have the same magnetic flux density, but since the magnetic flux density is uniform in the length direction, they can be attracted even in distant locations. □It becomes even more powerful when it reaches □60.



- Attract magnetic particles no matter where it flows.



- Magnetic particles are difficult to attract depending on the location.



It needs to be close to the raw material, and there is a possibility that foreign objects may come into contact with the raw material and be swept away. In the case of films, etc., there is a possibility that foreign objects may come into contact with them and cause damage.

*Please feel free to contact us regarding dimensions other than those listed above. *Magnetic flux density was measured using a Gaussmeter GM-4000 (Denshi Magnetic Industry) in an environment at room temperature. The measured value of the surface magnetic flux density varies depending on the manufacturer and model of the measuring instrument, the accuracy of the probe (Hall element), and the temperature. Therefore, there may be a difference between our measured values and your measured values.

2

Grate Magnet



with hopper



For round shape



triangular shape

Purpose

Grate magnet can be designed with tube for various locations to remove magnetic objects.

Features

- ① The spacing of the magnets can be adjusted based on the raw material.
- ② In addition to welding the entire grid circumference, bar magnets can also be installed using countersunk screws, drop-in type, etc. We will manufacture it according to your request.
- ③ Double tube type is also available for easy clean operation.
- ④ We can design and produce based on your request.

Specification

- ① You can select the type of tube magnet. *Please refer to the tube magnet lineup.
- ② Material: SUS304, SUS316L, titanium, etc.

3

Surface tube at 10,000 gauss.

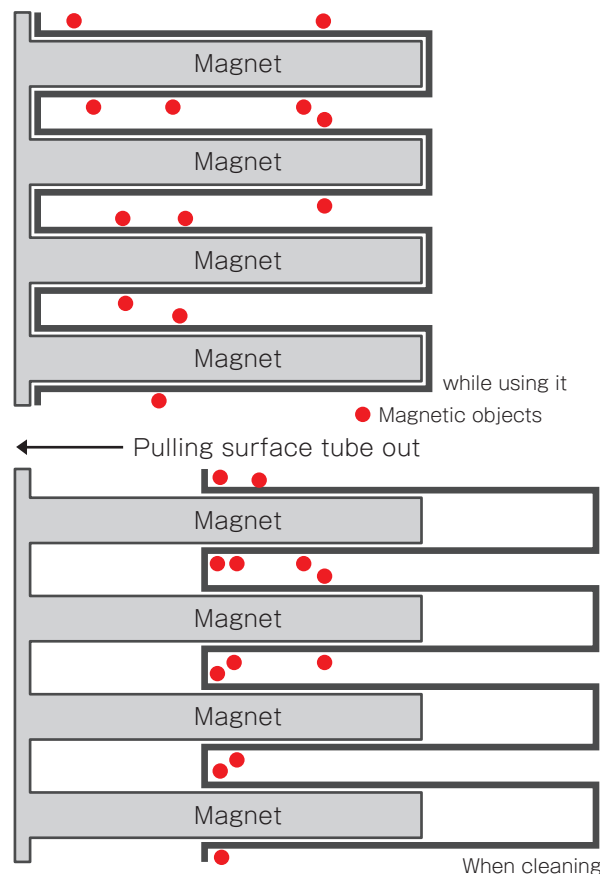
Double Tube Grid Magnet

Features

- ① Demonstrates more than 1.0T (10,000G) on the surface of the double tube.
- ② Double tube structure makes cleaning easy.

Specification

- ① Tube magnet surface gauss 1.4T (14000G)
- ② Surface tube diameter: $\phi 26$
- ③ Double pipe pipe material: SUS304, SUS316L
- ④ Can be coated on doublet tube.



4

Rotating tube magnets prevents clogging

Rotary Magnet

Double Tube Type



Features

The tube magnets rotate and capture magnetic objects while preventing raw materials from clogging. Ideal for raw materials with poor fluidity.

Specification

- ① Double tube magnet can be designed also. designed and manufactured.
- ② Ferrule connection type can also be manufactured.
- ③ Please specify the power supply voltage.



Connection diameter	Tube magnet length	# of tubes
100A	140L	6 piece set
125A	160L	
150A	185L	
200A	240L	8 piece set
250A	290L	
300A	340L	

*Design changes such as connection, distance between surfaces, number of tube magnets, etc. are also possible.

5

Grate Magnet with Casing

Purpose

It can be incorporated into a production line by connecting flanges, ferrules, etc., and when cleaning is needed, the grid magnet can be pulled out for easy cleaning.

Features

- ① It is possible to increase the iron recovery rate by assembling in multiple stages.
- ② We design and manufacture a casing that matches the installation space.
- ③ Double tube grid type magnet specification allows for easier cleaning.

Specification

- ① You can select the type of bar magnet.
*Refer to NMI bar magnet lineup
- ② Casing material: SUS304, SUS316L
- ③ Flanges, ferrules, and other connections can also be manufactured.



2-stage



For square flange connection

Connetion diameter A (mm)	Tube magnet length	# of tubes and layers	Distance B (mm)
150A (φ 165.2)	190L	2 tiers, 7 pieces (4+3)	290
		3 tiers, 10 pieces (3+4+3)	350
		4 tiers, 14 pieces (4+3+4+3)	410
200A (φ 216.3)	240L	2 tiers, 9 pieces (5+4)	320
		3 tiers, 13 pieces (4+5+4)	390
		4 tiers, 18 pieces (5+4+5+4)	460
250A (φ 267.4)	290L	2 tiers, 11 pieces (6+5)	320
		3 tiers, 16 pieces (5+6+5)	390
		4 tiers, 22 pieces (6+5+6+5)	460
300A (φ 318.5)	340L	2 tiers, 13 pieces (7+6)	340
		3 tiers, 19 pieces (6+7+6)	410
		4 tiers, 26 pieces (7+6+7+6)	480

*Special design can be arranged also.

6

Eliminate labor shortages with automation!

Self-cleaning Grate Magnet

Features

It has a double tube structure and uses an air cylinder to automatically pull out the tube magnets and clean the tube surface. Automation can solve the problem of installing in areas that cannot be cleaned by hand or labor shortages.

Specification

- ① With dedicated control panel
- ② Please specify the power supply voltage.



Dedicated control panel

7

Grate Magnet with Vibrator

Features

By vibrating with a vibrator, it is possible to reduce the accumulation and adhesion of raw materials on the bar magnet and prevent clogging of raw materials. Since the raw material does not adhere to the surface of the tube magnet, the recovery rate also improves.

Specification

- ① You can select the type of tube magnet.
- ② Double tube type can be designed also.
- ③ Please specify the power supply voltage.



Double pipe type



With stand



With vibrator (without stand)



No vibrator



With vibrator

8

Sanitary specifications

Magnetic Strainer SMS type



Purpose

Iron mixed into liquid (Ideal for removing fine iron particles, wear particles from stainless steel, etc.).

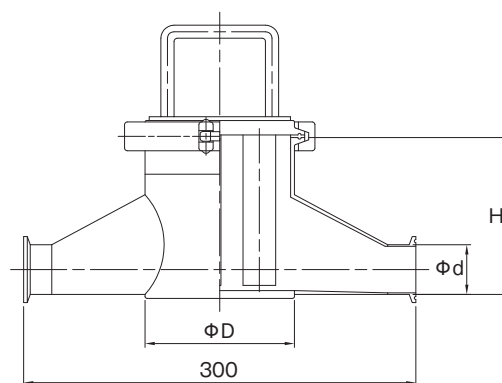
Features

- ① The bottom surface is flat to prevent liquid pooling.
- ② You can choose the magnetic force from a wide variety of variations.
- ③ Bar magnets are welded all around, making them ideal for food factories where bacteria are averse.
- ④ We also manufacture double pipe types.

Specification

- ① The magnetic force and number of tube magnets can be changed according to the customer's request.
- ② Flange connection and screw connection types can also be manufactured.
- ③ Material: SUS304, SUS316L #320 buffing finish on both inside and outside
- ④ Clamp band and ferrule gasket included

Model	Nominal diameter	ϕd (mm)	H(mm)	ϕD (mm)	Normal pressure	Number of magnets
SMS-1	1S	25.4	120	114.3	0.7MPa	5 pieces
SMS-1.5	1.5S	38.1				
SMS-2	2S	50.8				
SMS-2.5	2.5S	63.5	160	139.8	0.7MPa	7 pieces
SMS-3	3S	76.3				
SMS-3.5	3.5S	89.1				



9

Sanitary Pipe Strainer SP type

Purpose

Cleaning is easy because it can be disassembled. Compact and lightweight.

Specification

Material: SUS304, SUS316L

Model	Nominal diameter	ϕd (mm)	Nominal Pressure	Number of magnets
SP-1	1S	25.4	0.7MPa	Approximately 5kg
SP-1.5	1.5S	38.1		
SP-2	2S	50.8		

*Design changes such as connection, distance between surfaces, number of bar magnets, etc. are also possible.



10

Magnetic Strainer MS type

Purpose

Ideal for removing iron mixed in high viscosity liquids such as foods, chemicals, paints, printing inks, lubricants, cutting oils, china clay, pigments, dyes, sugar, pulp, etc.

Specification

- ① The magnetic force and number of bar magnets can be changed according to your request.
- ② We can also manufacture ferrules and screw connections.
- ③ Double pipe type is also designed and manufactured.
- ④ Material: SUS304, SUS316L
- ⑤ Standard is pickled finish on the inside and outside. Buffing finish is also available.



Model	Connection	Normal pressure	Number of magnets
MS-25A	25A flange	1.0MPa	7 pieces
MS-40A	40A flange		
MS-50A	50A flange		
MS-65A	65A flange		9 pieces
MS-80A	80A flange		
MS-100A	100A flange		

*Design changes such as connection, distance between surfaces, number of bar magnets, etc. are also possible.

11

Plate Magnet HP/RHP type

Purpose

It can be used in a wide range of applications, such as hanging from the chute, hopper, duct, dropping part or top of a belt conveyor, or submerged in liquid.

Features

- ① Made of stainless steel and completely sealed, it can be used even in liquids.
- ② We will design and manufacture the flange dimensions and mounting holes according to your request.
- ③ A barrier stop type is also available to increase adsorption power.

Specification

- ① Materials are SUS304, SUS316L
- ② Ferrite magnet SUS304 or SUS316L (HP type) and neodymium magnet (RHP type) are available.
- ③ We also design and manufacture items with custom made.
- ④ We also manufacture samarium cobalt magnets that can be used at high temperatures (300°C).

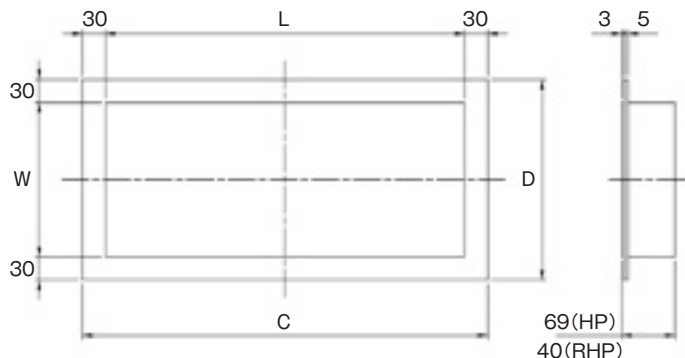
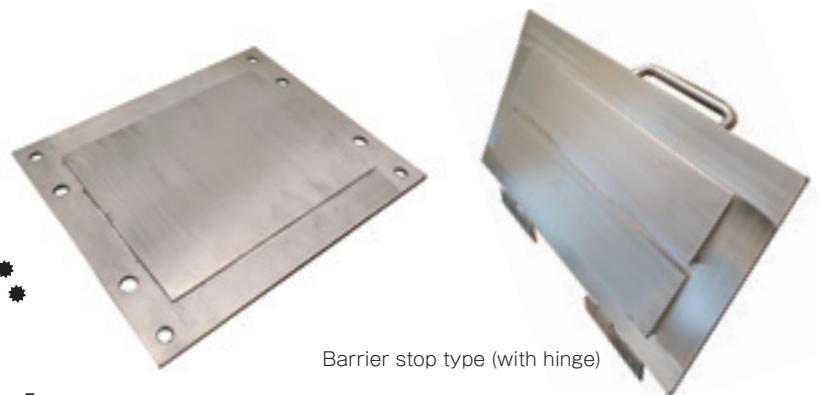
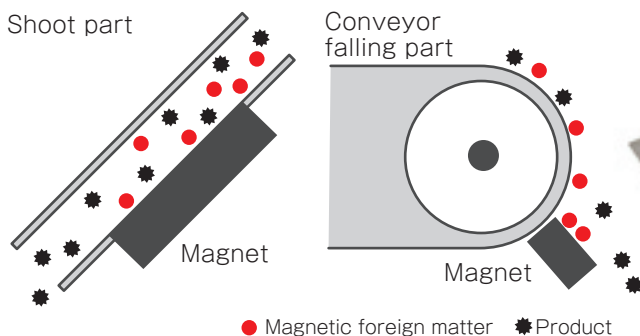


Plate magnet	Standard type	Barrier stop type
HP type ferrite magnet	0.15T(1,500G)	0.4T(4,000G)
RHP type neodymium magnet	0.45T(4,500G)	1.0T(10,000G)

Model	L(mm)	W(mm)	C(mm)	D(mm)	Approximate weight(HP)	Approximate weight(RHP)
(R)HP-115	159	131	219	191	10kg	8kg
(R)HP-120	210		270		12kg	9kg
(R)HP-125	261		321		15kg	11kg
(R)HP-130	312		372		18kg	14kg
(R)HP-135	363		423		21kg	16kg
(R)HP-140	414		474		24kg	18kg
(R)HP-145	465		525		26kg	20kg
(R)HP-150	516		576		29kg	22kg
(R)HP-155	566		626		32kg	24kg
(R)HP-160	617		677		35kg	27kg

Model	L(mm)	W(mm)	C(mm)	D(mm)	Approximate weight(HP)	Approximate weight(RHP)
(R)HP-215	159	200	219	260	14kg	11kg
(R)HP-220	210		270		18kg	14kg
(R)HP-225	261		321		22kg	17kg
(R)HP-230	312		372		27kg	21kg
(R)HP-235	363		423		31kg	24kg
(R)HP-240	414		474		35kg	27kg
(R)HP-245	465		525		39kg	30kg
(R)HP-250	516		576		43kg	34kg
(R)HP-255	566		626		48kg	36kg
(R)HP-260	617		677		52kg	40kg

Model	L(mm)	W(mm)	C(mm)	D(mm)	Approximate weight(HP)	Approximate weight(RHP)
(R)HP-315	159	275	219	335	16kg	12kg
(R)HP-320	210		270		22kg	17kg
(R)HP-325	261		321		29kg	22kg
(R)HP-330	312		372		36kg	27kg
(R)HP-335	363		423		42kg	32kg
(R)HP-340	414		474		49kg	37kg
(R)HP-345	465		525		56kg	43kg
(R)HP-350	516		576		63kg	47kg
(R)HP-355	566		626		69kg	52kg
(R)HP-360	617		677		76kg	58kg

12

Removes fine iron powder from raw materials!

Electromagnetic Separator CG



Purpose

This is the most efficient model for removing fine iron particles from the powder. EMS is widely used in lithium-ion battery materials (cathode, anode, and electrode) as well as in the chemical, plastic, food, ceramic, and pharmaceutical industries.

Features

- ① The magnetized screens remove magnetic particles of several microns.
- ② Since the screen case is vibrated by vibrators, it can be used even with raw materials with poor fluidity.
- ③ Yield Loss of raw materials is minimal.
- ④ Turning off the excitation power makes the screens with no magnetic and it makes easy to clean the poor fluidity materials.

Specification

- ① A Maghammer can be attached to materials with poor fluidity as an option.
- ② Screen design and opening can be selected according to the raw material.
- ③ Variable magnetic force option is available.
- ④ Comes with a dedicated control panel.
- ⑤ Can also be combined with an automatic iron powder discharging system (AT-CG model).
- ⑥ CE compatible models are also available.

Electromagnetic separator CG type developed exclusively for powder materials

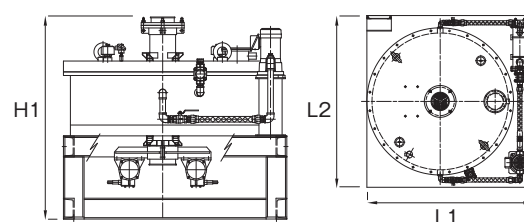
It has been said that iron removal is difficult when the particle size of the raw material is 0.1 mm or less, as it increases not only the adhesion between particles but also the adhesion to the magnetic separator. The CG type is characterized by a structure that efficiently concentrates the generated magnetic flux inside the device and creates a high magnetic flux density area. There is no magnetic leakage, and by placing multiple layers of screens with sharp edges inside the cylindrical shape and applying slight vibrations to them, fine powder with poor fluidity is dispersed and passed through the magnetized screen, resulting in high efficiency. This makes it possible to remove fine iron powder.

Model	CG-HHH type		
	150HHH-3	250HHH-3	300HHH-3
Magnetizing power (kW)	6.1	8.12	9.53
Magnetic flux density *1 %/ screens	3,300GAUSS		
Magnetic flux density *2 %/ screens	16,500	16,000	15,500
#of Standard screens	20	17	17
Unit weight (kg)	1,500	1,830	1,950

External dimensions of main models

Model	L1	L2	H1
CG-150HHH-3	1,050	1,000	1,755
CG-250HHH-3	1,100	1,100	1,800
CG-300HHH-3	1,200	1,200	1,830

*() is for AT specification.



screens

- ① Standard screen: opening 5mm, 7mm, 10mm, 12mm, 15mm, 20mm
- ② Screen with ring: opening 5mm, 10mm, etc.
- ③ Honeycomb screen: Coarse, medium, coarse (up to 75 sheets can be set)
- ④ Micro pitch screen: 5mm, 10mm, 15mm etc.



Standard screen

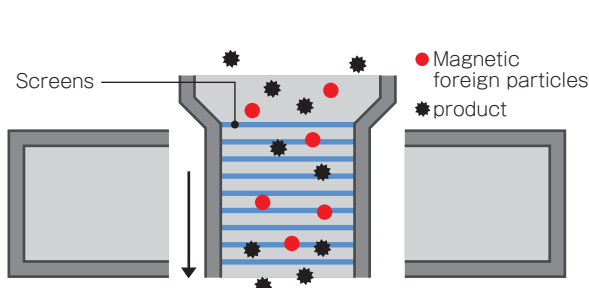


Screen with ring



Micro pitch screen

*Other various elements are available as options.
You can choose according to your application.



The magnetic flux densities in the table above are measured or analyzed values when cold (exciting coil is cold).

*1: Magnetic flux density (peak value) with no element set

*2: Maximum cored magnetic flux density (analytical value) when using a 5mm screen. Depending on the measurement location, there are locations where the magnetic force is stronger or weaker. Core magnetic flux density varies depending on the structure, material, and measurement location of the element.

*3: Maximum number of sheets when standard screen is set.

Amazing Over 18,000 Gauss

Electromagnetic Separator CG-X (High magnetic force model)

Features

- ① Demonstrates maximum cored magnetic flux density of 18,000gauss or more. (w/ screen when cold.) *2
- ② Removes magnetic foreign particles of several microns.
- ③ The cooling effect has been significantly improved, reducing the decrease in magnetic force when it is hot.

Specification

- ① Various screens can be used.
- ② Optional automatic cleaning system (AT-CG type).
- ③ Combined with a chiller unit (optional), it can suppress the rate of current drop in high temp. Therefore, it is possible to stably maintain high magnetic force.



AT-CG-150X-1 type

Model	CG-X type		
	150X-1	250X-1	300X-1
Magnetizing power (kW)	13.4	17.5	19.7
Magnetic flux density *1 % screens	6,000GAUSS		
Magnetic flux density *2 %/ screens	18,500	19,500	18,500
# of standard screens *3	20	17	17
Unit weight (kg)	3,000	4,000	4,300



Mughammer is optional



Vibrators are standard equipment

The magnetic flux densities in the table above are measured or analyzed values when cold (exciting coil is cold). *1: Magnetic flux density (peak value) with no element set *2: Maximum cored magnetic flux density (analytical value) when using a 5mm screen. There are also locations where the magnetic force is stronger or weaker depending on the measurement location. Core magnetic flux density varies depending on the structure, material, and measurement location of the element. *3: Maximum number of sheets when standard screen is set.

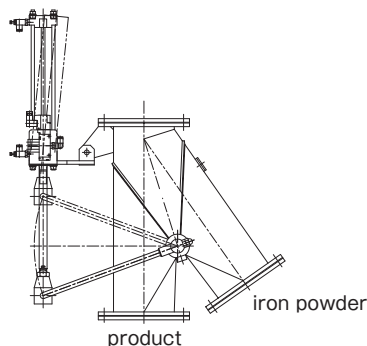
Continuous operation with timer setting

AT-CG (with automatic cleaning system)

Product explanation video
From here



By temporarily stopping the flow of raw materials and combining an automatic discharging device with a timer, the machine can be operated repeatedly at any time, eliminating the need for manual cleaning. An optional MagHammer can help magnetic material discharging by impact.



Powder change dumper



(CE) compatible product
(CE) AT-CG-150HHH-1 type
*SUS cover and SUS stand are optional.

13

Compact yet powerful performance!

Electromagnetic Separator MINI

Patent pending

Overview

Compact electromagnetic separators CG and CS types are available now. We have realized a compact type while maintaining performance. Even if the installation space was a problem with the conventional size, the MINI model will solve the problem.

Features

- Coil case volume ratio▽75%
- Magnetizing power.....▽50%
- Installation area ratio.....▽65%
- Weight▽75%

Specification

You can select the opening of the element according to the raw material. Comes with a dedicated control panel.

**CG-150MINI**

Magnetizing power (kW)	3.3kW
Magnetic flux density *1 % screens	3,000 gauss
Magnetic flux density *2 %/screens	14,000 gauss
Number of screens *3	10 pieces (standard 5mm)
Unit weight (kg)	600kg

CS-150MINI (Magnetic filter)

Magnetizing power (kW)	3.3kW
Magnetic flux density *1 % screens	3,000 gauss
Magnetic flux density *2 %/screens	12,000 gauss
Number of screens *3	22 sheets (coarse)
Unit weight (kg)	600kg

Although it is compact, it has the similar performance!

**Main external dimensions**

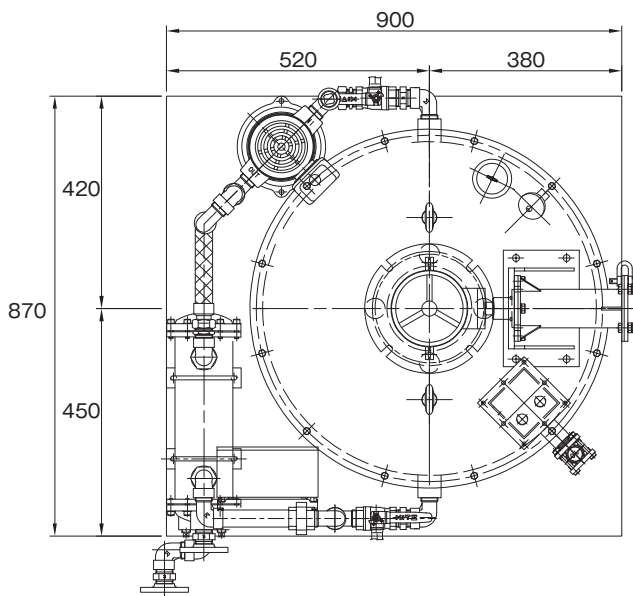
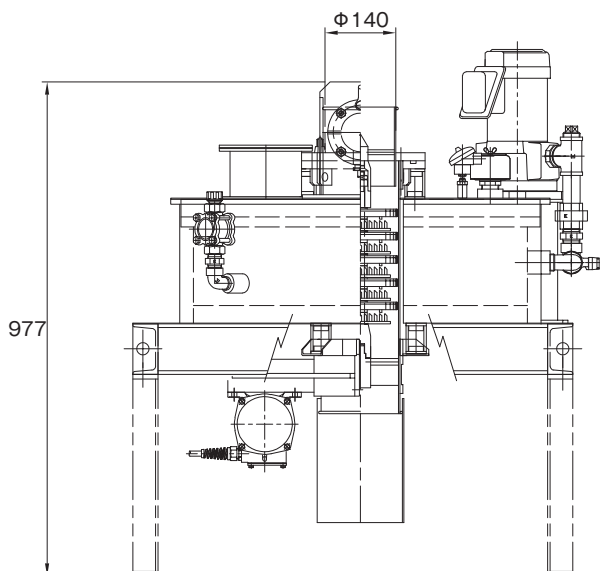
Model	L1	L2	H1
CG-150MINI	900	870	977
CS-150MINI			

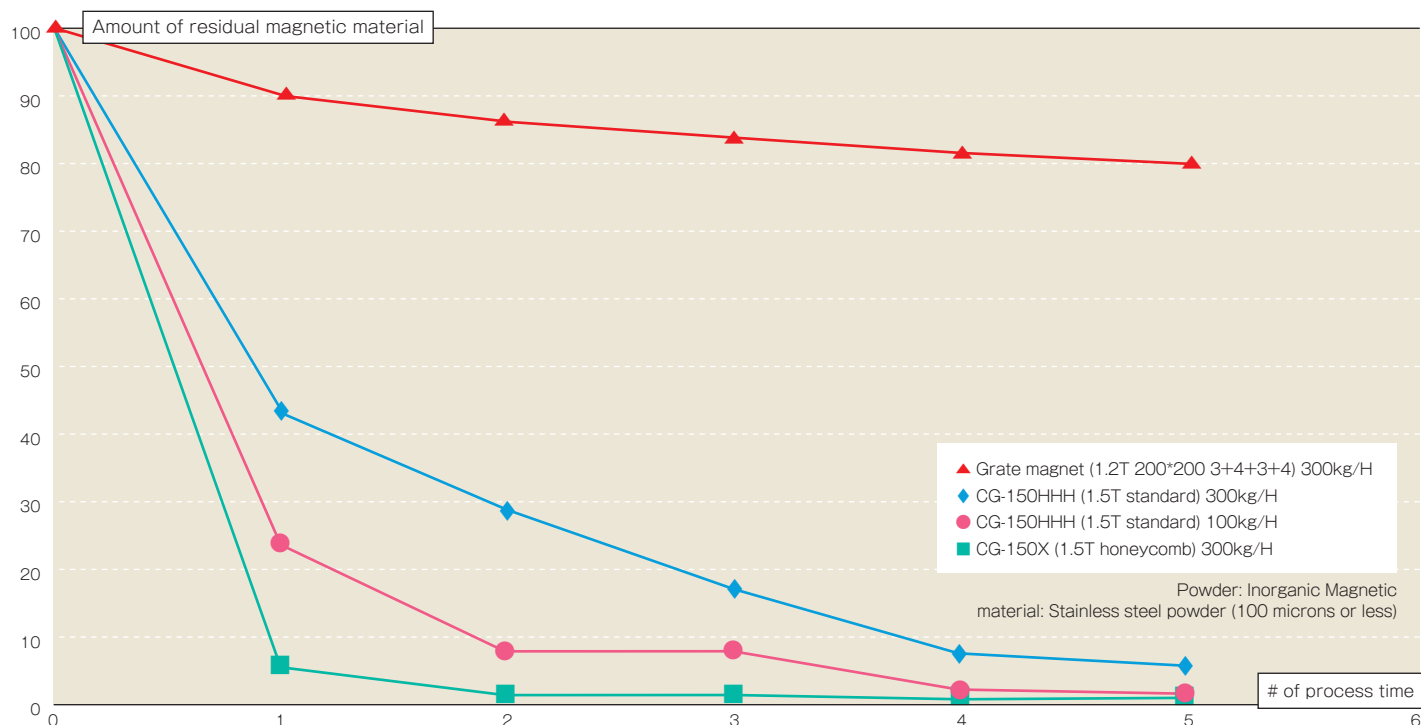
The above magnetic flux density is a measured value and an analysis value when it is cold (exciting coil is cold).

*1: Magnetic flux density (peak value) with no element set

*2: Maximum cored magnetic flux density (analytical value) when using standard elements. There are also locations where the magnetic force is stronger or weaker depending on the measurement location.

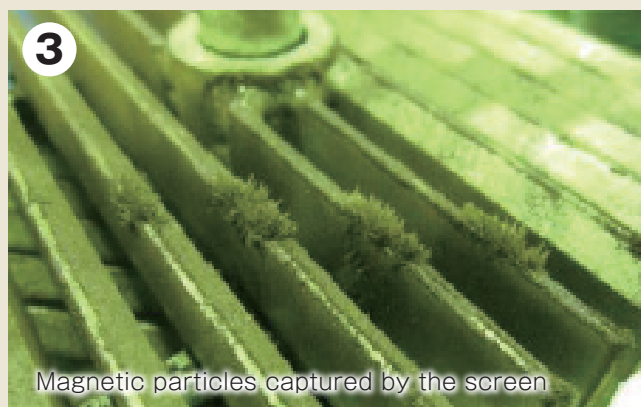
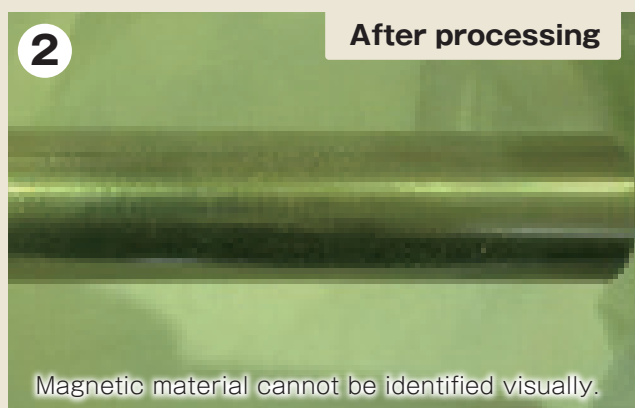
*3: Maximum number when standard elements are set.





Thoroughly removes fine iron particles that could not be recovered with conventional permanent magnet iron removers.

■ Electromagnetic separator test example - Fine powder ($50\mu\text{m}$)



14

For removing fine iron powder from any liquid

Magnetic Filter CS type**Purpose**

Iron powder and fine iron powder mixed in the liquid are removed using a magnetized magnetic filter. It can also be used for relatively high temperature items and slurry-like items.

Features

- ① Because the raw material passes through dozens of magnetic filters that are highly effective in removing iron, it is possible to remove fine iron powder of several microns.
- ② Once the excitation power was turned off, the filter will lose its magnetic force and can be easily cleaned.

Specification

- ① You can select the shape and opening of the magnetic filter according to the raw material.
- ② With dedicated control panel
- ③ Can also be combined with automatic cleaning equipment (AT-CS type)
- ④ CE marking compatible specifications can also be manufactured.

Model	CS-HHH		
	150HHH-3	250HHH-3	300HHH-3
Magnetizing power (kW)	5.9	8.1	9.53
Magnetic flux density *1 % filters	3,300GAUSS		
Magnetic flux density *2	12,000	12,000	12,000
Number of filters *3	41	41	42
Unit weight (kg)	2,200	2,800	3,000

The magnetic flux densities in the table above are measured or analyzed values when cold (exciting coil is cold).

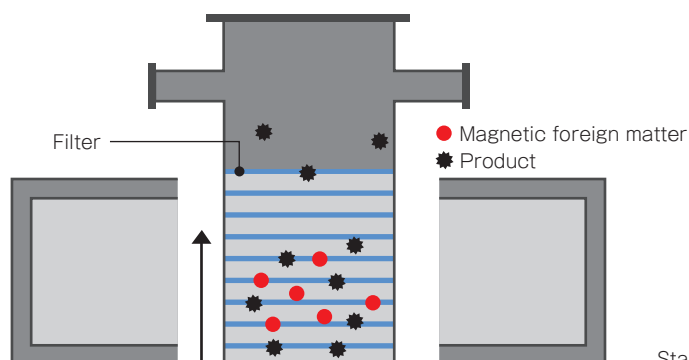
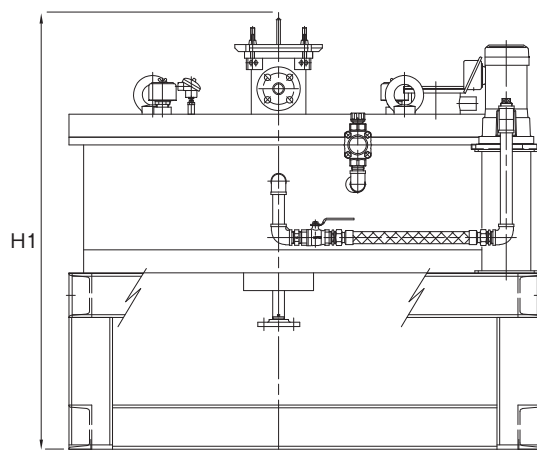
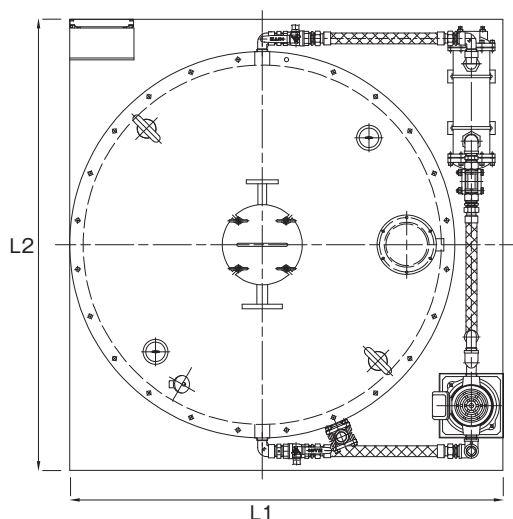
*1: Magnetic flux density (peak value) with no element set

*2: Maximum cored magnetic flux density (analytical value) when using a standard filter.

There are also locations where the magnetic force is stronger or weaker depending on the measurement location. The cored magnetic flux density varies depending on the structure, material, and measurement location of the element.

*3: Maximum number of filters when standard filter 11t is set.

Model	L1	L2	H1
CS-150HHH-3	1,350	1,400	1,223
CS-250HHH-3	1,500	1,500	1,264
CS-300HHH-3	1,550	1,500	1,273

**Filter**

- ① Standard filter coarse, medium, coarse ② Steel ball



Standard filter (coarse, medium, coarse)



Steel balls

15

Ideal for removing weak magnetic materials and trace amounts of iron powder!

Magnetic Filter (Highest Magnetic force model) CS-X type

Features

- ① Demonstrates maximum magnetic flux density with filters of 20,000gauss or more. (When cold)
- ② Removes foreign particles of several microns.
- ③ The cooling effect has been significantly improved, reducing the decrease in magnetic force when it is hot.

Specification

- ① Various elements can be used.
- ② Can also be combined with automatic cleaning equipment (AT-CS type)
- ③ In combination with a chiller unit (optional), it is possible to suppress the rate of current drop during heat and maintain stable high magnetic force.



CS-250X type

*Painting and SUS frame are optional.

Model	CS-X		
	150X-1	250X-1	300X-1
Magnetizing power (kW)	13.4	17.5	19.7
Magnetic flux density *1 % filters	6,000GAUSS		
Magnetic flux density *2	20,000		
Number of filters *3	41	41	42
Unit weight (kg)	3,000	4,000	4,300

The magnetic flux densities in the table above are measured or analyzed values when cold (exciting coil is cold).

*1: Magnetic flux density (peak value) with no element set

*2: Maximum cored magnetic flux density (analytical value) when using SUS bulbs. Core magnetic flux density varies depending on the structure, material, and measurement location of the element.

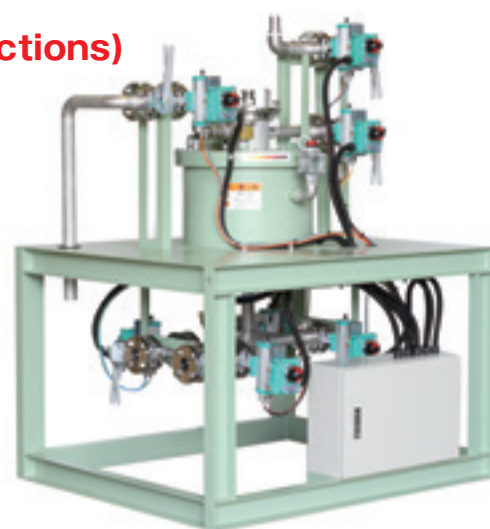
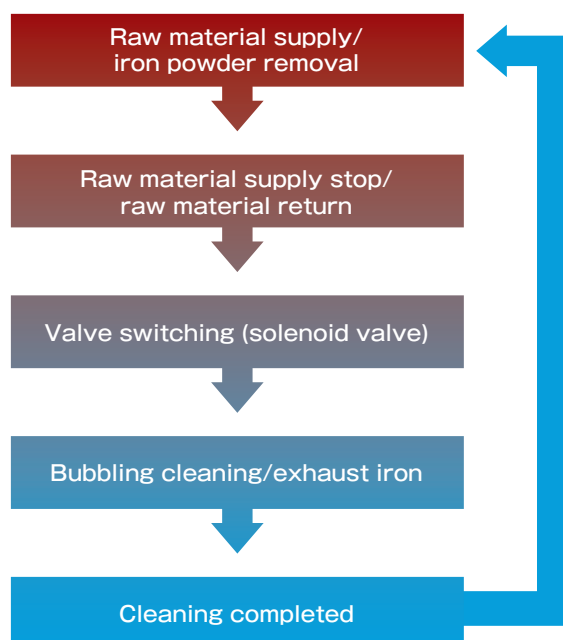
*3: Maximum number of sheets when standard filter 11t is set

The iron powder collected by the filter is automatically cleaned.

AT-CS type (with automatic cleaning functions)

Features

- By arranging two or more units in parallel, raw material supply is not interrupted.
- Continuous processing is also possible. (FAT-CS type)



AT-CS-150 type

white slurry



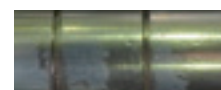
Before sorting

- Tube magnet inserted into sample
- Magnetic particles are captured.



After sorting

- Tube magnet inserted into sample (Magnetic material cannot be visually confirmed)



Magnetic side

- Bar magnet inserted into the magnetic material side (You can confirm the collection of magnetic material)

16

Magnetic Pulley WN type/RWN type

Purpose

Metal foreign substances in raw materials can be removed and recovered by simply replacing the conveyor head pulley with a magnetic pulley. This separator is indispensable for food factories and other recycling plants.

Features

- ① You can choose between vertical and horizontal poles according to your application.
- ② We also manufacture magnetic pulleys made of samarium cobalt magnets that can be used at high temperatures.
- ③ Pulley shafts, keyways, etc. can also be manufactured as desired.

Specification

- ① Standard magnetic force type (WN type): Horizontal pole 1,000 Gauss, vertical pole 2,000 Gauss
- ② High magnetic force type (RWN type): Horizontal pole 3,000 Gauss, 5,000 Gauss
- ③ Pulley diameter: Vertical pole type $\phi 215 \sim \phi 318$ /Horizontal pole type $\phi 215 \sim \phi 406$
- ④ Pulley length, shaft dimensions, etc. will be designed and manufactured according to your request.

WN type (Ferrite magnet)

Horizontal pole

1,000 Gauss

Vertical pole

2,000 Gauss

RWN type (Neodymium magnet)

Horizontal pole

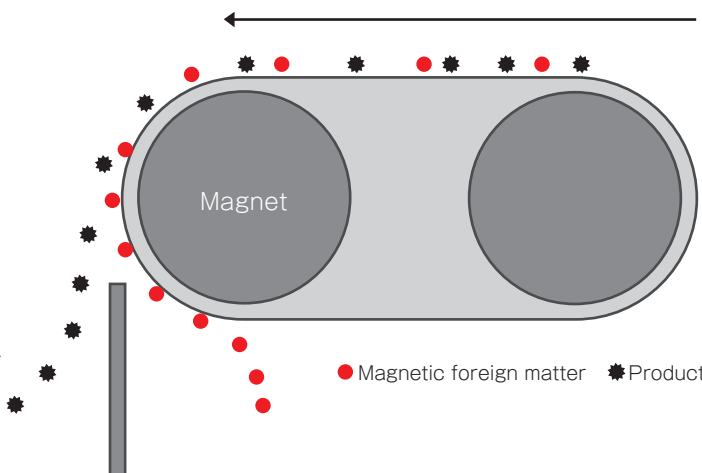
3,000 Gauss

Horizontal pole

5,000 Gauss

Pulley diameter (mm)	Pulley width (mm)	Compatible belt width (mm)	Approximate weight (kg)
$\phi 215$	450	400	80
	500	450	90
	550	500	100
	650	600	120
	800	750	140
	950	900	170
	1,050	1,000	190
$\phi 265$	450	400	110
	500	450	120
	550	500	130
	650	600	160
	800	750	190
	950	900	230
	1,050	1,000	250
$\phi 315$	450	400	140
	500	450	150
	550	500	170
	650	600	200
	800	750	240
	950	900	290
	1,050	1,000	310

Pulley diameter (mm)	Pulley width (mm)	Compatible belt width (mm)	Approximate weight (kg)
$\phi 355$	450	400	160
	500	450	175
	550	500	190
	650	600	230
	800	750	280
	950	900	330
	1,050	1,000	365
$\phi 406$	500	450	230
	550	500	250
	650	600	300
	800	750	330
	950	900	365
	1,050	1,000	480



*We can also design and manufacture products with dimensions other than those listed above. Please feel free to contact us. *Approximate weight.

● Magnetic foreign matter ● Product

17

Stainless steel separator! High magnetic pulley removes weak magnetic stainless steel pieces!

High Intensity Magnetic Separator for Stainless Steel, HGMP type

Purpose

Found in food, powder, wood chips, and other raw materials. Can be used to remove stainless steel foreign matter.

Features

- ① Demonstrates a high magnetic force of 12,000 Gauss on the pulley surface.
- ② Uses a permanent magnet (neodymium).
- ③ Magnetic materials attracted by the pulley type are immediately discharged, so continuous processing is possible!

Specification

- ① Two types of pulley diameters are available: $\phi 70$ and $\phi 135$.
- ② The pulley length and shaft dimensions will be designed and manufactured according to your request.

Pulley diameter (mm)	Pulley width (mm)	Magnetic effective width (mm)
$\phi 70$	300	218
	350	266
	400	314
	450	362
	500	410
	550	458
	600	506
	650	554
	700	614

Pulley diameter (mm)	Pulley width (mm)	Magnetic effective width (mm)
$\phi 135$	300	234
	350	272
	400	310
	450	386
	500	386
	550	462
	600	500
	650	538
	700	614
	800	690
	900	804
	1,000	880
	1,100	994

*Please feel free to contact us regarding dimensions other than those listed above.



with casing

We design and manufacture products with casings. Vibration feeder available as an option It can be manufactured.

New Product

Ideal for collecting not only stainless steel but also lithium-ion batteries that get mixed in with garbage!

15000 Gauss Magnetic Pulley

Features

Demonstrates an ultra-high magnetic force of 15,000 Gauss on the pulley surface. Uses permanent magnets (neodymium).

Specification

Pulley diameter: $\phi 215 \sim \phi 406$ We will design and manufacture the pulley length and shaft dimensions according to your request.

*If you have any desired dimensions, please contact us.



Non-magnetic material side (raw material side)



sorted by magnet Electronic equipment including lithium-ion batteries

Sample testing is available.
For details,
please contact us.

*Photos are from our sample test. Selection status varies depending on various conditions

18

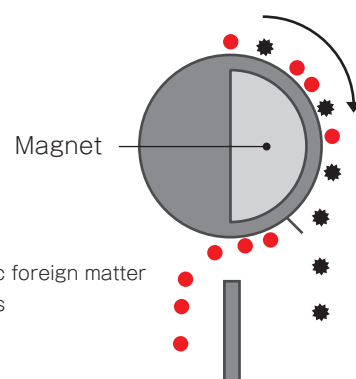
It can be used in a wide range of fields such as resource recycling, wood, mining, ceramics, chemicals, food, etc.

Drum Magnetic Separator

EN type/ REN type (drum body)

Features

- ① Adsorbed iron powder and iron pieces can be continuously discharged.
- ② 1,000 Gauss (EN type), 3,000 Gauss 5,000 Gauss (REN type) available.
- ③ We also manufacture heat-resistant (300°C) types.



Electromagnetic Drum Separator EDS type

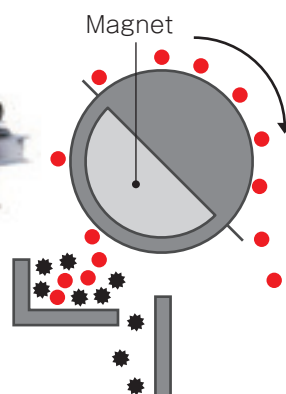
Features

- ① For shredding bulky waste, collecting iron pieces from shredder lines, etc.
- ② Iron can be collected using the pick-up method.
- ③ There is also an EDSP type that uses permanent magnets.



EDS- $\phi 600 \times 1000$ L type

● Magnetic foreign matter
★ Products



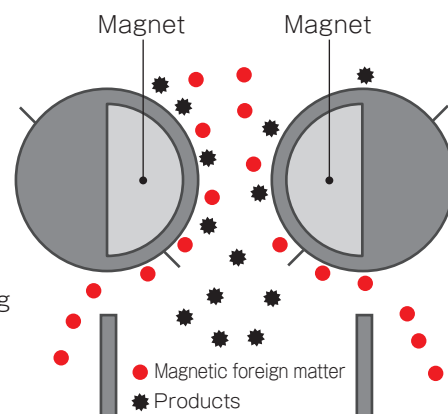
Twin-pole Magnetic Drum Separator :TRMX type

Features

When a drum magnetic separator is placed on opposite poles, a strong magnetic field is generated in the opposing fields. By placing the drums facing each other, we have made it possible to separate stainless steel pieces with weak magnetism.



TRMX- $\phi 355 \times 1200$ L type



Intensive Magnetic Force Drum Separator :HGMD type

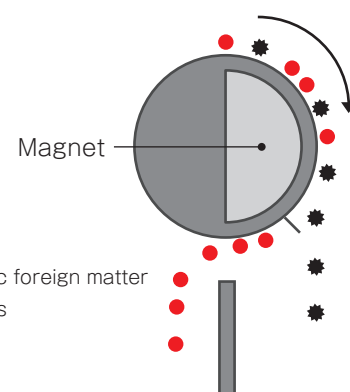
Features

- ① Demonstrates 9,000 Gauss (vertical pole) on the drum surface!
- ② SUS bolts and nuts can be sorted out.



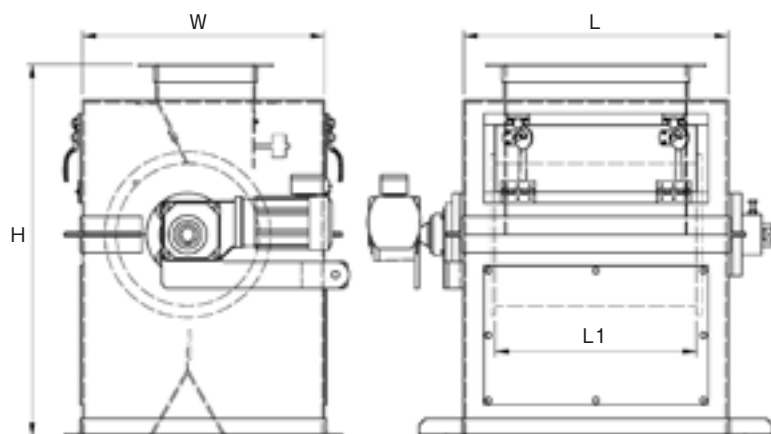
HGMD- $\phi 405 \times 420$ L type

*Photo shows with vibration feeder(option)

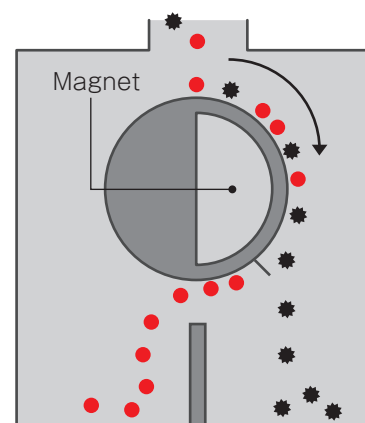


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Drum Magnetic Separator ENS type/RENS type (with Casing)



● Magnetic foreign matter
✱ Products



We can also manufacture custom-made products other than those listed below.



RENS-φ315 500L

Drum diameter (mm)	Drum width L1 (mm)	Throughput (M3/H)	Drum EN type Approximate weight (kg)	Drum ENS type			
				W (mm)	L (mm)	H (mm)	Approximate weight (kg)
φ267	300	20	40	490	440	780	180
	350	24	45		490		190
	400	28	50		540		210
	450	32	55		590		220
	500	36	60		640		240
	550	40	70		690		250
	600	44	85		740		270
φ318	300	25	70	540	440	830	200
	350	30	80		490		220
	400	35	85		540		240
	450	40	90		590		260
	500	45	95		640		270
	550	50	100		690		290
	600	55	110		740		310
φ355	450	48	105	590	590	880	300
	500	54	110		640		320
	550	60	115		690		340
	600	66	120		740		370
	700	78	130		840		390
	800	90	140		940		420
	900	-	160		1,040		440

Drum diameter (mm)	Drum width L1 (mm)	Throughput (M3/H)	Drum EN type Approximate weight (kg)	Drum ENS type			
				W (mm)	L (mm)	H (mm)	Approximate weight (kg)
φ406	500	62	140	640	640	930	330
	550	69	145		690		350
	600	76	150		740		370
	700	90	165		840		410
	800	104	180		940		460
	900	118	200		1,040		510
	550	86	200	780	690	1,030	460
φ508	600	94	210		740		490
	700	110	240		840		560
	800	126	270		940		620
	900	142	300		1,040		680
	1,000	158	330		1,140		740
	1,200	-	400		1,340		860

*Processing amount display: For grain feed *Please check the specifications, dimensions, weight, etc. on the drawing when ordering.

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Suspension Permanent Magnetic Separator : PUF-S

Purpose

PUF-S is designed to install above and 90 degrees to the conveyor belt to remove scrap metals from the materials on the moving conveyor.

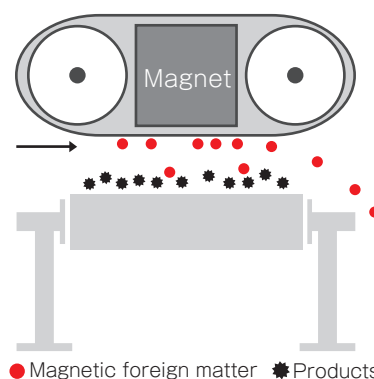
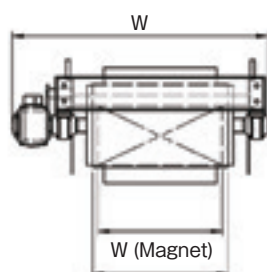
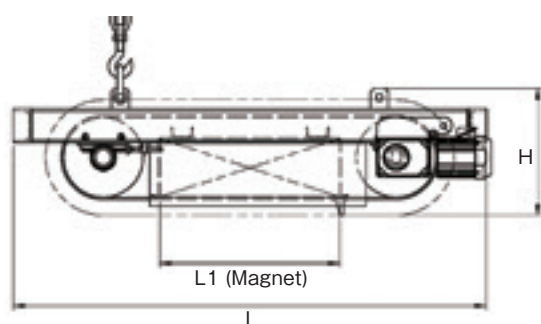


Features

- ① Permanent magnet saves energy cost on magnetization power.
- ② Tough durable design issuitable for outdoor use. ③ Compact size with reliable performance.

specification

- ① Available in 3 model series. ② Wear protection wiper standard.
- ③ Optional oil protection wiper and protective cover models.
- ④ Comes with hook for handing installation



E5 series

Model	Applicable belt width (mm)	Belt speed	Body dimensions(mm)			Magnet dimensions(mm)		Belt width (mm)	Drive motor (mm)	Weight (kg)
			L	W	H	L1	W1			
PUF-S30E5	<450	60m/min (60Hz) 50m/min (50Hz)	1,700	930	507	500	400	450	0.75	410
PUF-S40E5	<600		1,850			650				450
PUF-S45E5	<750		2,000			800				500
PUF-S50E5	<900		2,150			950				530
PUF-S60E5	<1,050		2,300			1,100				620

E8 series

Model	Applicable belt width (mm)	belt speed	Body dimensions(mm)			Magnet dimensions(mm)		Belt width (mm)	Drive motor (mm)	Weight (kg)
			L	W	H	L1	W1			
PUF-S30E8	<450	66m/min (60Hz) 55m/min (50Hz)	1,800	1,135	562	500	550	600	1.5	630
PUF-S40E8	<600		1,950			650				730
PUF-S45E8	<750		2,100			800				820
PUF-S50E8	<900		2,250			950				890
PUF-S60E8	<1,050		2,400			1,100				1,000

E10 series

Model	Applicable belt width (mm)	belt speed	Body dimensions(mm)			Magnet dimensions(mm)		Belt width (mm)	Drive motor (mm)	Weight (kg)
			L	W	H	L1	W1			
PUF-S40E10	<600	57m/min (60Hz) 47m/min (50Hz)	2,060	1,286	594	650	700	750	1.5	1,000
PUF-S45E10	<750		2,210			800				1,100
PUF-S50E10	<900		2,360			950				1,250
PUF-S60E10	<1,050		2,510			1,100				1,450

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Suspension Permanent Magnetic Separator: PUF-SM

Features

- ① Compact design.
- ② Simple structure and low cost .

Specification

- ① Hanging bolt with turnbuckle attached.
- ② Please specify the power supply voltage.



Model	Applicable belt width (mm)	Belt speed	Body dimensions (mm)			Magnet dimensions (mm)		Drive motor (mm)	Weight (kg)
			L	W	H	L1	W1		
PUF-400×(100)M	<400	※1	1,047	432	229	525	290	0.4 ※2	120
PUF-450×(170)SM	<450	60m/min (60Hz) 50m/min (50Hz)	1,550	892	395	500	400	0.75	300
PUF-600×(170)SM	<600		1,700	1,040	395	650	490		420
PUF-750×(170)SM	<750		1,900	1,140	395	800	650		560
PUF-900×(260)SM	<900		2,250	1,450	448	1,000	800	1.5	1,200

*1. Belt speed 42m/min (50Hz), 50m/min (60Hz) *2. Motor pulley drive

22

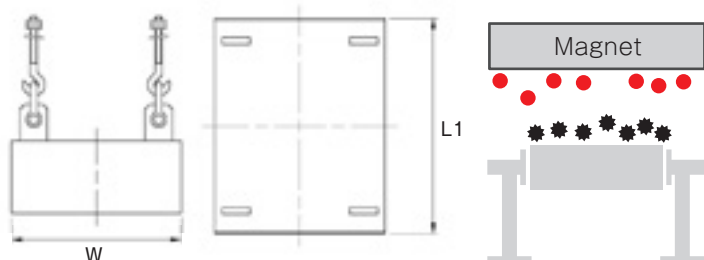
Suspension Permanent Magnetic Separator: PUF-H type

Purpose

PUF-H is designed to install over the belt conveyor to remove scrap metals.

Features

- ① No operating energy is required. Tough durable design is suitable for outdoor use.
- ② Three models (E5, E8, E10 types) with different magnetic forces are available depending on the target object.



● Magnetic foreign matter ● Products



E5 series

Model	Applicable belt width (mm)	Body dimensions (mm)	
		L1	W1
PUF-H30E5	<450	506	400
PUF-H40E5	<600	656	
PUF-H45E5	<750	806	
PUF-H50E5	<900	956	
PUF-H60E5	<1,050	1,106	
PUF-H70E5	<1,200	1,256	

E10 series

Model	Applicable belt width (mm)	Body dimensions (mm)	
		L1	W1
PUF-H40E10	<600	656	700
PUF-H45E10	<750	806	
PUF-H50E10	<900	956	
PUF-H60E10	<1,050	1,106	
PUF-H70E10	<1,200	1,256	

E8 series

Model	Applicable belt width (mm)	Body dimensions (mm)	
		L1	W1
PUF-H30E8	<450	506	550
PUF-H40E8	<600	656	
PUF-H45E8	<750	806	
PUF-H50E8	<900	956	
PUF-H60E8	<1,050	1,106	
PUF-H70E8	<1,200	1,256	

23

Hybrid heat releasing , No insulation oil necessary!

Self-cooled Suspension Electromagnetic Separator: HUF-S

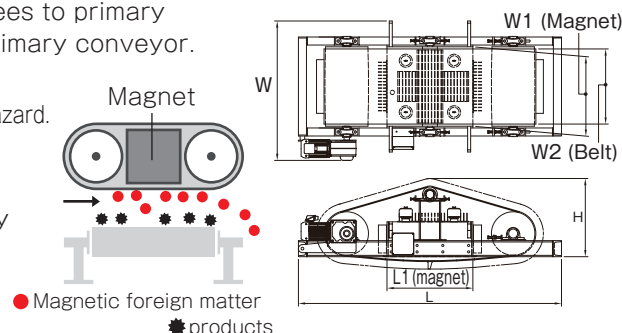


Purpose

HUF-S is designed to install above and at 90 degrees to primary conveyor belt and remove scrap metal from the primary conveyor.

Features

- ① The dry self-cooling mechanism requires no insulation oil or cooling fan to cool the coil. Therefore, there is no fire hazard.
- ② The unit requires no insulation oil, therefore , the unit can be installed in any angle.
- ③ High cooling efficiency maximizes separator ability without a dust protection cover and allows 24-hour continuous operation.
- ④ Durable mechanical design for outdoor use.



Specification

- ① Three models (E5, E8, E10) with different magnetic forces are available depending on the target object.
- ② The standard belt material is equipped with wear protection wiper. Special specifications such as oil protection wiper and armor protection cover models are available.
- ③ Comes with controller and suspension bolts.

Model	Applicable belt width (mm)	Magnetizing power (kw)	Body dimensions (mm)			Magnet dimensions (mm)		Motor capacity (kw)	Approximate weight (kg)
			L	W	H	L1	W1		
HUF-S30	400Max	1.0	2,190	945	710	540	440	0.75	750
HUF-S35	500Max	2.1	2,050	1,055	733	700	600	0.75	880
HUF-S40	600Max	2.5	2,450	1,299	730	800	740	1.5	1,300
HUF-S45	750Max	3.4	2,600	1,409	780	950	850	1.5	1,600
HUF-S50	900Max	4.5	2,750	1,509	779	1,100	950	1.5	2,100
HUF-S60	1,050Max	5.6	3,050	1,637	959	1,250	1,090	2.2	3,100
HUF-S70	1,200Max	8.6	3,490	1,877	1,106	1,450	1,240	3.7	4,900
HUF-S80	1,400Max	9.7	4,080	2,176	1,085	1,600	1,400	5.5	6,900
HUF-S90	1,600Max	11.1	4,280	2,389	1,145	1,800	1,600	5.5	8,400

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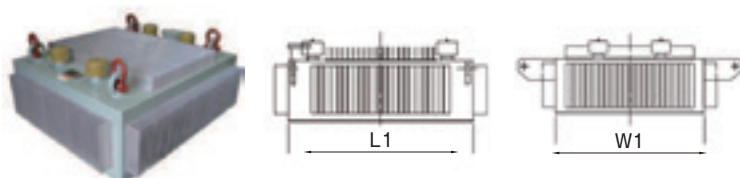
Suspension Type Electromagnetic Separator: HUF-H

Purpose

Installs over the primary conveyor belt to remove iron particles from the raw material on the belt. Ideal where smaller amounts of iron contamination are expected. The unit is easy to reach for cleaning.

Specification

- ① Comes with controller and suspension bolts.
- ② Durable mechanical design for outdoor use.



Model	Magnetizing power (kw)	Magnet dimensions (mm)		Approximate weight (kg)
		W1	L1	
HUF-H30	1.0	440	540	300
HUF-H35	2.1	600	700	500
HUF-H40	2.5	740	800	750
HUF-H45	3.4	850	950	1,200
HUF-H50	4.5	950	1,100	1,350
HUF-H60	5.6	1,090	1,250	2,000
HUF-H70	8.6	1,240	1,450	4,000
HUF-H80	9.7	1,400	1,600	4,300
HUF-H90	11.1	1,600	1,800	6,000

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Lifting Magnet Model: HLS

Purpose

Durable mechanism is suitable for cement plant and quarry.

Features

Water and dust proof design eliminates contamination and extends the life of the unit.

Specification

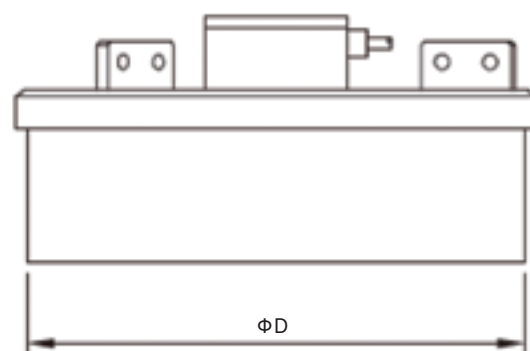
- ① Dedicated control panel and hanger bolt included.
- ② Can be used continuously for 24 hours.



Model: HLS-1100 type

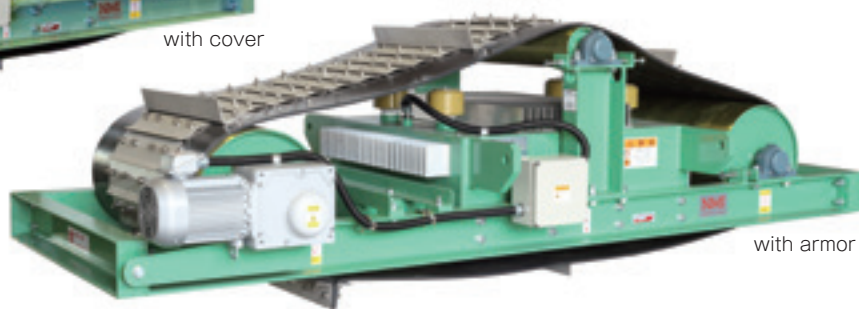
Model	Applicable width(mm)	Magnetizing power (kw)	Dimension D(mm)	Approximate weight(kg)
HLS-300	250	0.19	318	120
HLS-400	350	0.34	406	170
HLS-500	400	0.68	508	350
HLS-600	500	0.87	609	450
HLS-700	600	1.1	700	600
HLS-800	700	1.4	800	800
HLS-900	750	1.9	900	1,000

*Please contact us for applicable widths other than those listed above.



with cover

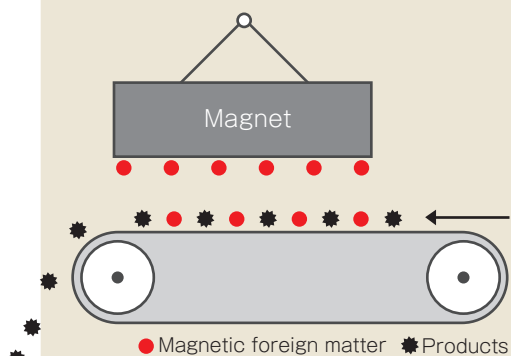
Special specifications such as cover and armor are available.



with armor

Suspension magnetic separator used in various situations

Leave the model selection to us!



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Eddy Current Separator (non-ferrous separator)

Purpose

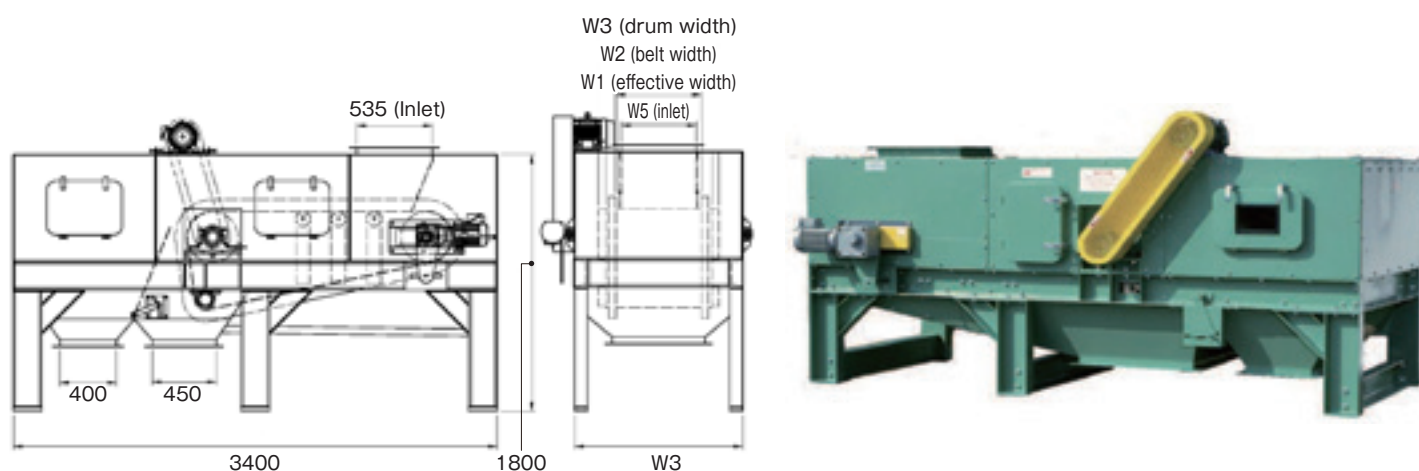
- ① Recovery aluminum cans from plastic and glass bottles.
- ② High efficiency of recovery of aluminum from city waste.
- ③ Separation of nuts and iron steels from crushed machines.
- ④ Recovery of valuable metals from glass cullet.

Features

Two models are available depending on the size of the raw material.
ALS-L for larger objects like cans. ALS-2 for small objects.

Specification

- ① Magnetic drum rotation speed/ALS-L type: Max.1,800rpm ALS-S type: Max.2,500rpm
- ② Belt drive uses a hyponic motor



■ ALS-L series

Model	Standard body dimensions (mm)			Drum diameter (mm)	Drum speed (RPM)	Belt speed (m/min)	Output (kw)		Approximate weight (kg)
	W1	W2	W3				for belt	for rotor	
ALS-L3	330	260	880	φ 354	Max 1,800 (variable)	17-100 (variable)	0.75	2.2	1,200
ALS-L4.5	480	410	1,030				1.5	3.7	1,600
ALS-L6	630	560	1,180					5.5	1,800
ALS-L7.5	780	710	1,330					7.5	2,100
ALS-L9	930	860	1,480				2.2	7.5	2,400
ALS-L12	1,230	1,160	1,780					11	2,700

■ ALS-S series

Model	Standard body dimensions (mm)			Drum diameter (mm)	Drum speed (RPM)	Belt speed (m/min)	Output (kw)		Approximate weight (kg)
	W1	W2	W3				for belt	for rotor	
ALS-S3	330	260	880	φ 361	Max 2,500 (variable)	17-100 (variable)	0.75	3.7	1,250
ALS-S4.5	480	410	1,030				1.5	5.5	1,500
ALS-S6	630	560	1,180					7.5	1,800
ALS-S7.5	780	710	1,330					11	2,100
ALS-S9	930	860	1,480				2.2	11	2,400
ALS-S12	1,230	1,160	1,780					11	2,800



ALS-S12 showing with optional vibration feeder

Please view video from here.



We test your materials for review.

Aluminum separator used for

Bulk waste separator line

We perform highly efficient sorting and collection of aluminum cans from shredded municipal waste.

Processing of aluminum molding sand

Demonstrates its power in collecting aluminum pieces in the aluminum shell sand regeneration line.

Aluminum recovery from PET bottles

We perform highly efficient sorting and recovery of aluminum contained in PET bottles.

Collection of conductors in glass cullet

ALS can streamline the recovery of valuable metals from glass cullet.

Classification of Aluminum vs steel cans

ALS automatically pick up aluminum and steels cans from municipal waste, recycling station, and highway debris.

Other recoveries

Ideal for sorting nails from pachinko machines and collecting other conductive materials.



Sorting aluminum cans and steel cans



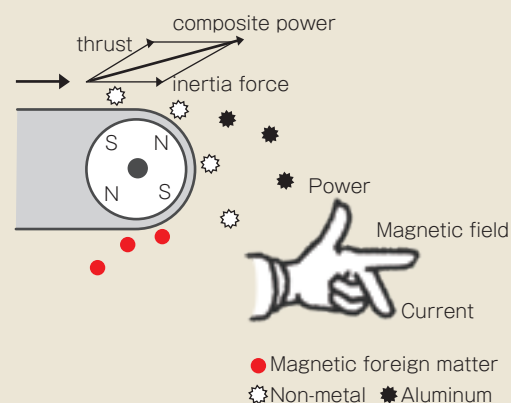
Selected non-ferrous metals



Crushed non-ferrous metals collected by ALS-S

Principle of eddy current separator

When a magnetic drum with N and S magnetic poles arranged around its circumference rotates at high speed, eddy currents are generated inside a good conductor such as aluminum due to electromagnetic induction. Since the aluminum is in the strong magnetic field generated by the magnet drum, a thrust force acts on the aluminum in the tangential direction, according to Fleming's left hand rule. Additionally, since the aluminum is being conveyed on a belt conveyor, inertia is acting on it. As a result, the aluminum flies out in the direction that combines these forces.



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Revolution in High Efficiency Devices for small volumes

Eddy Current Separator and Compression Combined device

Purpose

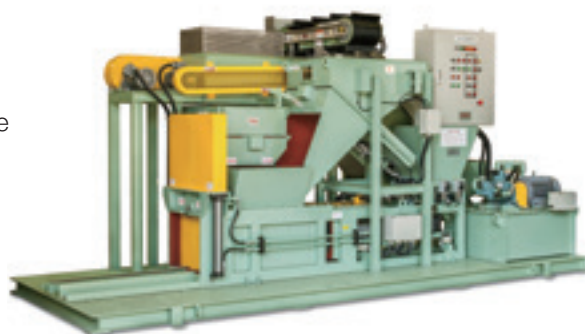
Separate resources(steel cans, aluminum cans,glass, plastic bottles) and compacting

Features

- ① Automated separation and pressing will reduce the labor cost and process time.
- ② Space saving design of 4.5m × 2m.

Specification

- ① Power source:200/220V AC200/220V
- ② Controller included

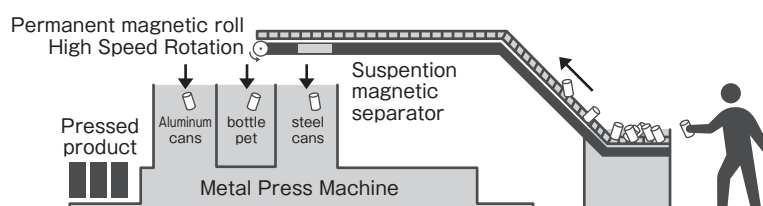
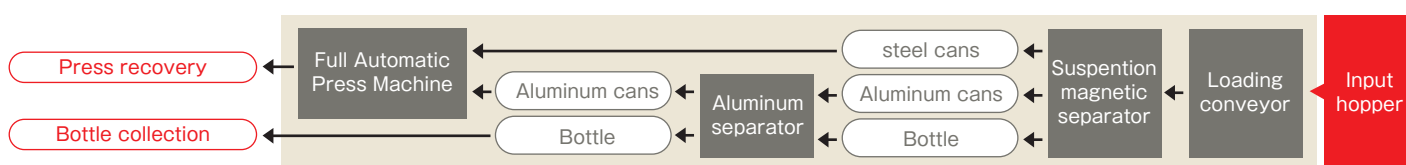


standard Specification

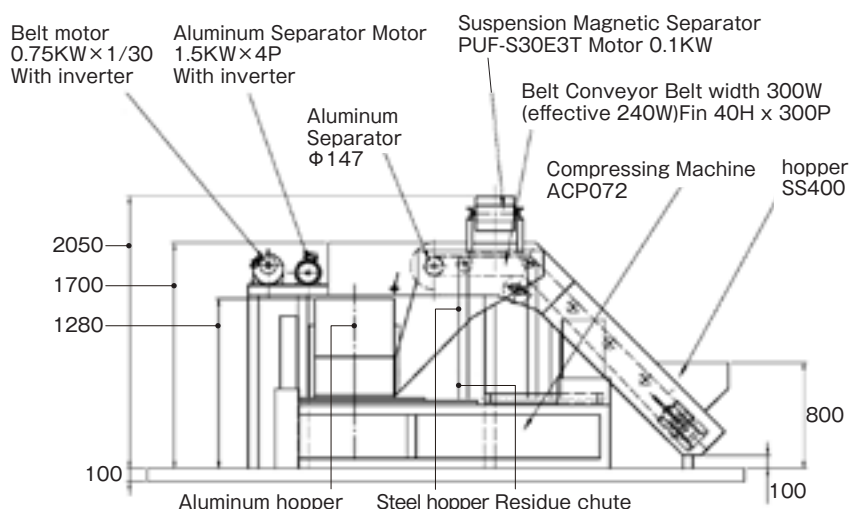
- Suspension magnetic separator: PUF-S30E5T type
- Aluminum separator: ALS-L2 type
- Belt conveyor: Finned/inclined type 300W (effective 240W)
- Press machine: KCP-072 type
- Input hopper
- Total power consumption: 10.15kW
- Total weight: approx. 3,100kg

Press machine/standard specifications

- Operation method: Fully automatic/manual
- Compression method: Hydraulic one-way tightening
- Molding dimensions: 400W x 400H x 856L
- Processing capacity: 0.5t/h (for steel cans):0.15t/h (for aluminum cans)
- Motor capacity: 7.5kW
- Press machine weight: 1,500kg



A combination of Eddy Current Separator, Suspension Magnetic Separator and compressing machine.



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Revolution of High Efficiency
Recycling Devices for Large Volumes

Videos being sorted are
From here



Eddy Current Separator and Compression device

Features

- ① Processing Capacity: Upto 1.5MT/Hr.
- ② Easy quick installation (Min 2days).
- ③ Adding a press machine will make the equipment even more effective.

Specification (Example)

- ① Suspension magnetic separator: PUF-S30E5 type
- ② Aluminum separator: ALS-L3 type
- ③ climber Conveyor. 400w × 4500L
- ④ Press machine: KCP-100-2 type
- ⑤ Input hopper: 1,600L × 1,040W × 500H



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Aluminum and Steel Can Separator

Features

- ① Requires small space for installation.
- ② Liquid vent to release water from cans.
- ③ Easy installation.

Specification (Example)

Processing capacity: approx. 500kg/hour (steel can equivalent) Power consumption: 5.9kw
Operation method: Fully automatic/manual Compression method: Hydraulic one-way tightening
Press Compartment: 400 x 400 x free length (mm)

Aluminum can and steel can sorting + press machine

Aluminum cans and steel cans are sorted using a magnetic pulley and stored in their respective hoppers. When the predetermined amount is reached, it is automatically fed into the press machine and compacted.



30

Waste Materials can be turned
into Valuable by recycling

Empty can simple separator: ABC type

Videos being sorted are
From here



Purpose

Separation of Aluminum and Steel cans, iron recovery from rubber, glass, wood waste and other non-ferrous materials.

Features

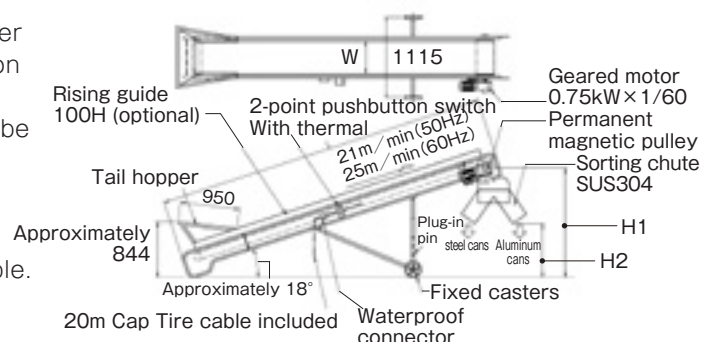
- ① Easy to handle. It comes with moving wheels so you can change the installation location freely.
- ② Can be combined with a drum magnetic separator or suspension type magnetic separator for large-volume processing.
- ③ More streamlined processing is possible when used in conjunction with an aluminum separator.
- ④ By attaching a variable belt speed inverter as an option, it can be used in combination with manual sorting.
- ⑤ Removable hopper and work station can be optional.

Specification

- ① Power Source: 200/220V, 50/60Hz
Energy saver system.
- ② Comes with 20m long plug in cab tire cable.
- ③ Includes sorting chute and tail hopper



Empty can simple separator ABC-3550 type
(Rising guide is optional)



Model	Belt width ₁ (mm)	Horizontal L (mm)	H1 (mm)	H2 (mm)	Permanent magnetic pulley	Geared motor	Approximate weight (kg)
ABC-3530	350	3	1,250	398	φ 215×380L	0.75kw(1/60)	400
ABC-3540		4	1,350	507			400
ABC-3550		5	1,650	816			400
ABC-3555		5.5	1,800	950			400
ABC-3560		6	1,950	1,126			500
ABC-3570		7	2,100	1,435			500
ABC-4040	400	4	1,350	507	φ 265×430L		400
ABC-4050		5	1,650	816			400
ABC-4055		5.5	1,800	950			400
ABC-4060		6	1,950	1,126			500
ABC-4070		7	2,100	1,435			500
ABC-5040	500	4	-	507	φ 265×550L		400
ABC-5050		5	1,650	816			400
ABC-5055		5.5	1,800	950			500
ABC-5060		6	1,950	1,126			500
ABC-5070		7	2,100	1,435			500
ABC-6040	600	4	-	507	φ 265×650L		400
ABC-6050		5	1,650	816			500
ABC-6055		5.5	1,800	950			500
ABC-6060		6	1,950	1,126			600
ABC-6070		7	2,100	1,435			600

*H1 and H2 dimensions are approximate dimensions as the height can be adjusted. *Rising guide and side safety cover are optional.

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Automated Can Compactor Model:KCP

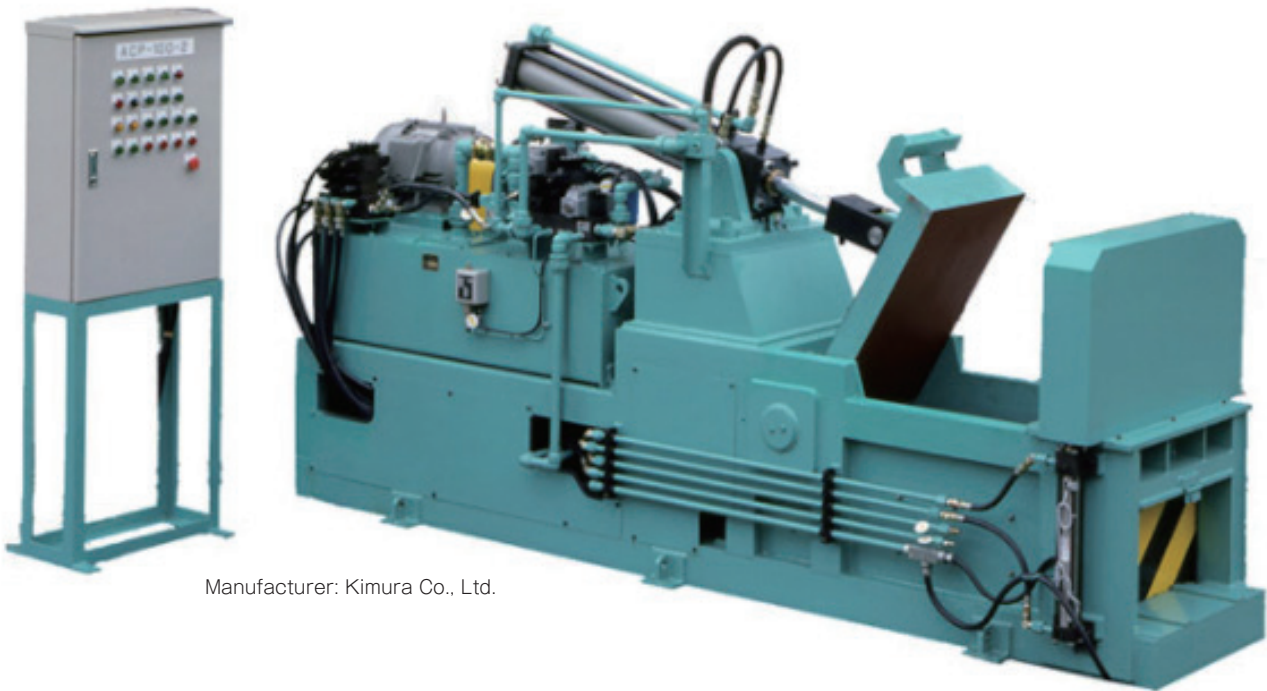
Small and High Efficiency Model

Purpose

- ① Fully automated operation. ② Strong Compression.
- ③ Compact design saves space.

Specification

- ① Comes with a dedicated control panel. ② Can be combined with automatic supply hopper (optional).



Manufacturer: Kimura Co., Ltd.

Method, capacity, dimensions	KCP-400A type	KCP-500A type	KCP-600A type	KCP-650A type	KCP-700A type
Compression method	Hydraulic two-way tightening	Hydraulic two-way tightening	Hydraulic two-way tightening	Hydraulic two-way tightening	Hydraulic two-way tightening
Method of operation	Automatic Manual	Automatic Manual	Automatic Manual	Automatic Manual	Automatic Manual
Cylinder pressure	21MPa	21MPa	21MPa	21MPa	21MPa
Cylinder pushing force (upper lid)	16.7ton	16.7ton	32.9ton	43ton	54.4ton
Cylinder pushing force (compression)	32.9ton	32.9ton	60.6ton	67.2ton	84.3ton
Cylinder pushing force (gate)	3.4ton	3.4ton	8.6ton	8.8ton	14.2ton
Electric motor	7.5kW	7.5kW	11kW	15kW	22kW
Press dimensions	400W×575H×860L	500W×488H×1070L	600W×650H×1300L	650W×716H×1450L	700W×800H×1600L
Molding dimensions	400W×400H×Free	500W×300H×Free	600W×400H×Free	650W×450H×Free	700W×500H×Free
Processing cycle	Approximately 60~70sec	Approximately 65~75sec	Approximately 70~80sec	Approximately 65~75sec	Approximately 65~75sec
Processing capacity (steel can)	0.65ton/h	0.85ton/h	1.5ton/h	1.9ton/h	2.5ton/h
Processing capacity (aluminum cans)	0.2ton/h	0.25ton/h	0.5ton/h	0.6ton/h	0.85ton/h
Oil tank capacity	180L	200L	300L	500L	700L
Gross weight	2.4ton	2.5ton	6ton	7ton	8ton
Overall width(mm)	800	900	1070	1,250	1,280
Total length(mm)	3,000	3,150	4,100	4,300	4,650
Overall height(mm)	1,628	1,750	2,170	2,594	2,883

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Lifting Magnet: HL

Video during transportation
From here



Purpose

Best for scraps and steel plate handling. Can be used on an overhead traveling crane, backhoe or crane vehicle.

Features

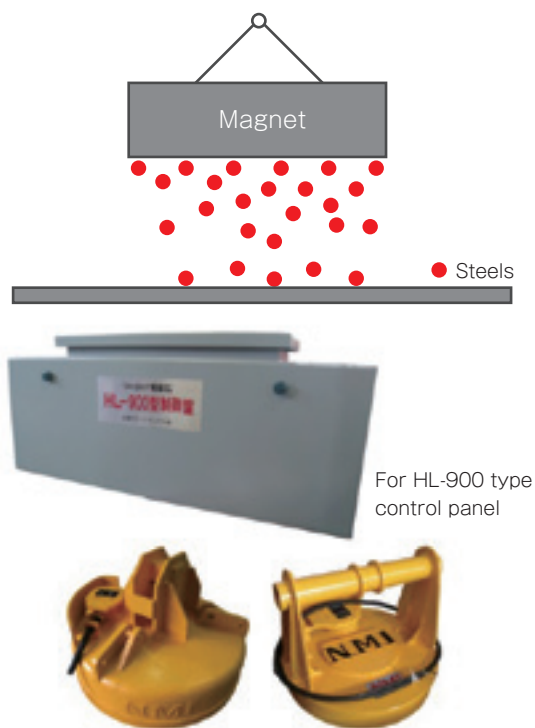
- ① Durable long life design.
- ② Wide variety of installation to backhoe and cranes.
- ③ Custom made for backhoe size.

Specification

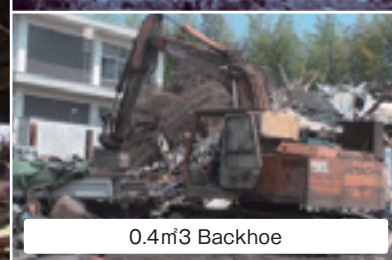
- ① Power Source: AC200/220V 50/60Hz.
Power supplied by generator on backhoe.
- ② Custom and light version is available upon request.



Lifting magnet HL-1100 type



Manufactured to suit various attachments.



Model	Size(OD)	Voltage(AC) V	Current		Magnetizing power(kw)	Own weight (kg)	Hanging capacity (maximum)			
			Cold time A	Heat time A			Ingot (kg)	Pig iron(kg)	Scrap (kg)	Cut shoulder (kg)
HL-300	318	200/220	9.3	7	0.63	120	1,300	-	-	-
HL-400	406		9.1	-	0.84	140	-	-	-	-
HL-500	508		9.7	8.3	2.15	250	2,300	130	100	90
HL-600	609		9.8	-	2.16	300	-	-	-	-
HL-700	700		14.3	11.3	3.16	480	2,800	240	160	105
HL-800	800		12.5	15	2.74	550	3,000	300	200	110
HL-900	900		32	22	7.00	750	4,000	360	260	160
HL-1100	1,100		39.1	33	8.69	1,450	-	500	450	230
HL-1300	1,300		58.2	56	12.8	1,650	-	800	700	360
HL-1500	1,500		80	69	17	2,500	-	1,100	1,100	550

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Convenient! Permanent Magnetic Lifter for Steel Handling

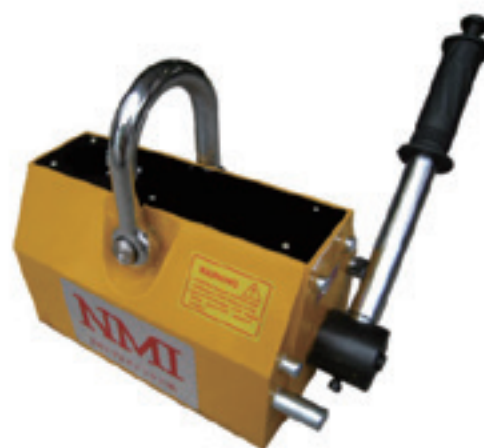
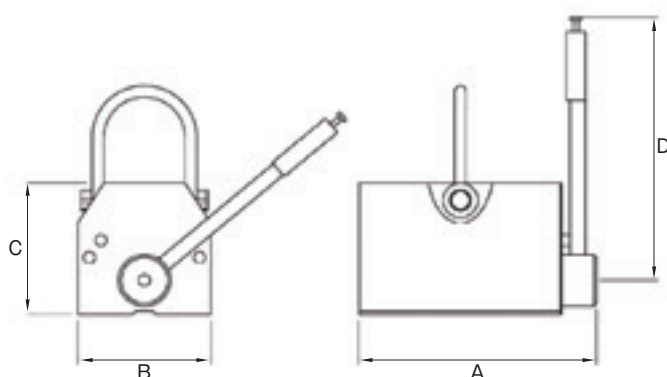
Permanent Lifting Magnetic: QZ1

Purpose

Hanging steel materials and workpieces from a crane or hoist
It can be transported to the desired position.

Features

- ① Flat and round steel plates can be lifted. ② Operation is easy with ON/OFF switch.
- ③ No power is required, therefore, no fear of falling due to power failure while transferring object.
- ④ The structure is designed with safety concern. The handle is turned on only when it recognizes absorption of certain thickness of magnetic materials.



Model	Lifting capacity (kg)		Dimensions (mm)				Weight (kg)
	Flat steel	Round steel	A	B	C	D	
QZ1-0.1	100	50	130	75	80	150	3.0
QZ1-0.3	300	150	205	100	110	225	10.0
QZ1-0.6	600	300	265	120	125	260	24.0
QZ1-1	1,000	500	320	150	160	320	43.0
QZ1-2	2,000	1,000	410	185	195	460	89.0

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Hammering device to remove adhering powder and prevent clogging

Electromagnetic Hammering Device

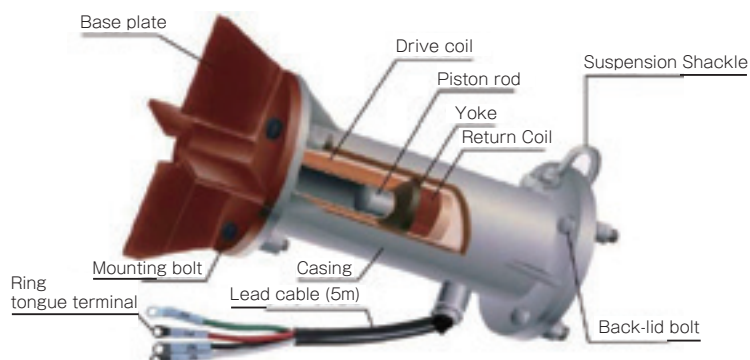
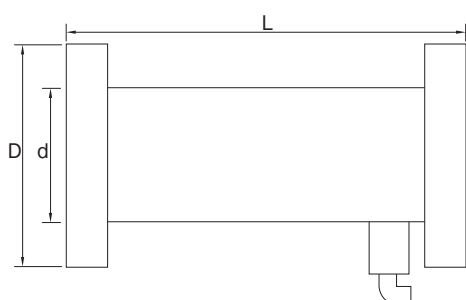


Purpose

Eliminates and prevents build-up, clogging, rat holes, arching, and bridges that occur in hopper chutes, ducts, tanks, etc.

Features

- ① High efficiency for continuous impacting force.
- ② Flexible adjustments by controller fit specific needs for application.
- ③ Sealed design allows use in severe dusty atmosphere.
- ④ Operation can be activated by an external signal, internal timer or manual control.

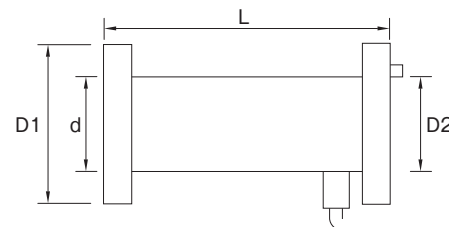


Model	Structure	Impact Force		Dimensions (mm)			Weight (kg)	Ampere (A) AC220V
		kg·m/sec	Hammer	D	d	L		
SIC-05A	Sealed unit (indirect hitting)	1.8	1pound	130	76.3	226	7	1.3
SIC-1A		3.8	2pound	165	101.6	284	13	1.8
SIC-2A		8.2	4pound	190	114.3	318	22	3.4
SIC-3A		21.3	10pound	255	165.2	384	52	3.9
SIC-05AS	Sealed unit indirect hitting & reducing noise	1.3	0.7pound	130	76.3	224	7	1.3
SIC-1AS		2.7	1.5pound	165	101.6	284	13	1.8
SIC-2AS		5.7	3pound	190	114.3	318	22	3.4
SIC-3AS		14.9	7pound	255	165.2	384	52	3.9

Can be used in hazardous locations such as gas and steam (class 1 and 2 hazardous locations)!

Explosion-proof type (Exd IIBT4) Electromagnetic MagHammer

utility model



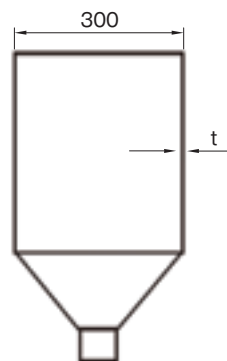
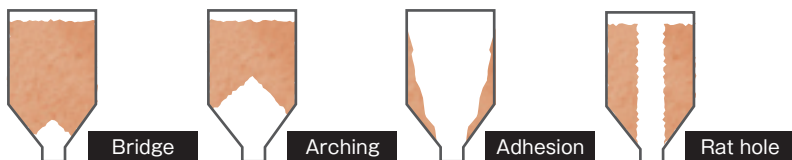
Model	Type approval No.	Impact Force		Dimensions (mm)				Weight (kg)	Ampere (A) AC220V
		kg·m/sec	Hammer	D1	D2	d	L		
SIC-05AEX	TC18745	1.8	1ポンド	130	140	76.3	226	8	1.3
SIC-1AEX	TC18746	3.8	2ポンド	165	175	101.6	284	15	1.8
SIC-2AEX	TC18747	8.2	4ポンド	190	190	114.3	318	24	3.4
SIC-3AEX	TC18748	21.3	10ポンド	255	260	165.2	384	55	3.9

Selection Guide

Although it varies depending on the shape and dimensions of the hopper, the degree of clogging of the product, and the characteristics, shape, moisture content, etc. of the powder, we recommend the model and number of units as shown in the table on the right as a rough guide for selecting a MugHammer. The selection criteria is to select the type of MagHammer based on the thickness of the hopper wall (t), and determine the number of MagHammer based on the size of the hopper (ϕ). Since the impact force of the maghammer can be adjusted, it is best to choose a larger model.

Clogging and adhesion

By applying a strong momentary impact with a MugHammer, it is extremely effective in resolving various powder problems that occur in hoppers, chutes, piping, etc.



Product
explanation video
From here



tmm φm	1	2	3	4	5	6	7	8	9 or more
0.5									
0.8	0.5A type x 1 unit		1A type x 1 unit			2A type x 1 unit			3A type x 1 unit
1.0									
1.5									
2.0	0.5A type x 2 unit		1A type x 2 units			2A type x 2 units			3A type x 2 unit
2.5									
3.0									
3.5	0.5A type x 3 unit		1A type x 3 units			2A type x 3 units			3A type x 3 unit
4.0									
5.0									
6.0	0.5A type x 4 unit		1A type x 4 units			2A type x 4 units			3A type x 4 unit

MagHammer for the special environments

- High-temperature specifications (ambient temperature 100°C) .
- Corrosion-resistant specifications (all made of SUS) .
- Direct impact type (piston protruding) .



SN-1A type

SB-2A

Control panel



Model	#of controllable MagHammer by a controller	Construction	Input power	Operation	Impact force variable	
SB-1A	05A×3・1A×2 2A×1・3A×1	Indoor use and dust-proof with case	AC200/220V 50/60Hz3	Auto or remote Hits variable:1 to 10 Pause variable:30 sec to 10 min	50~100%	
SB-2A	05A×6・1A×4 2A×2・3A×2					
SN-1A	05A×3・1A×2 2A×1・3A×1	Control unit without case				Auto operation by external signal:1 hit/1 sec
SN-2A	05A×6・1A×4 2A×2・3A×2					

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Separate metals and non-metals

Electrostatic Corona Separator: ESCI

Purpose

- ① Resin-coated foundry sand and aluminum chips
- ② Recovery of copper and aluminum in crushed products and minerals
- ③ Selection of zirconium, rutile, ilmenite, tungsten, etc. in minerals
- ④ Recovery of heavy metals from waste home appliances and waste OA equipment, sorting of resin and laminated metal

Conditions

- ① Applicable grain size of 0.1 to 5mm
- ② Humidity greatly affects separation efficiency, so an environment with humidity of 50% or less is desirable. It is necessary that the sorted items are dry.

Principle

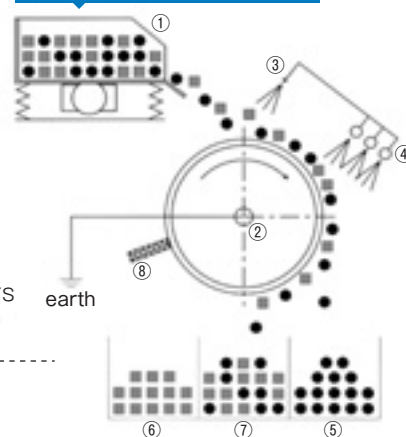
It is now possible to sort fine metals and non-metals!

Raw materials are fed evenly to the rotating drum connected to the earth ground. The raw materials then pass the electrostatic corona electrode to electric field to be charged. After electro charged, loose their charge based on their conductivity. Good conductive material separate remain attached to the drum's surface until rubber scrapers peel it off. Multiple stacks of separators will increase the effectiveness.

- ① Feeder ② Drum ③ Corona electrode (needle-shaped)
 ④ Electric field electrode ⑤ Conductive materials
 ⑥ Non-conductive materials ⑦ Mixture ⑧ Rubber scraper



Sorting material supply



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Light and convenient! For rapid pick up of small parts!

Hand magnet: G-2

Purpose

Scattered iron pieces and screws can be easily collected.

Features

- ① Durable Aluminum body.
- ② Iron pieces can be attached and detached with one touch.
- ③ The weight is 1.7kg, which emphasizes ease of use.

Specification

Weight/1.7kg·Dimensions/W87×L140×H192mm



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Easy to use! Just pull it out!

Magnetic Drum Sweeper: BS-1

Purpose

Collect scattered iron pieces and iron powder.

Features

The magnet has a double tube. If you pull it out, the iron piece will be removed instantly.

Specification

Weight/approx. 6kg/Effective width/342mm/Total width/496mm

Just pull out!



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Magnetic Sweeper: FS-1

Purpose

Easy installation to the forklift arm lend this unit to wide range of maneuvers for quick cleaning of parking lots, construction sites, manufacturing floors, roads and more.

Features

- ① Strong magnetic force collects small iron pieces.
- ② Forklift covers wide range of cleaning area quickly.

Specification

- ① Dedicated platform.
- ② Modification to the customs design upon request.

FS-1



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Electromagnetic Positioner: Magposi

Purpose

This is a holding and fixing device for the final finishing of complex-shaped products such as cast and injection molded products.

Specification

- ① Any shape can be firmly fixed with magnetized steel balls ($\phi 0.1$ to 3 mm).
- ② It can be easily held, fixed, and removed by turning the switch ON and OFF.

Model	Content dimensions(mm)	weight (kg)
MP-4	400W×400L×100H	120
MP-7	700W×700L×100H	350



MP-7 type

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Can be used with all grinding machines!

Drum Coolant Separator

Purpose

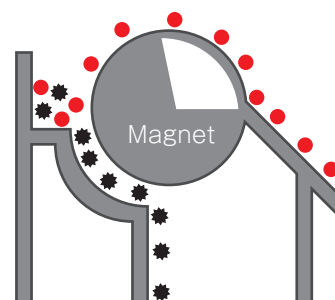
Separation and cooling off of iron partickles from coolant oil grinder machine. Works perfectly with any type of coolant oil.

Specification

- ① Compact design and high performance.
- ② Magnetic drum mechanism.

Model	Throughput (L/min)	Drum diameter (mm)	Drum width (mm)	Drum surface magnetic flux density (Gauss)	Weight(kg)
CSH-80	80	$\phi 101.6$	200	6,000	20
CSH-120	120	$\phi 101.6$	300	6,000	36
CSH-180	180	$\phi 165$	315	4,000	80
CSH-300	300	$\phi 165$	400	4,000	95
CSH-500	500	$\phi 165$	700	4,000	120

● Magnetic foreign matter ✱ products



CSH-180 type

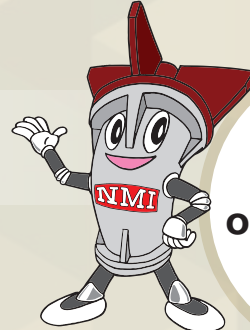
We also manufacture items other than those in the catalog.
If you have any requests, please feel free to contact us!



Sample test information

We have a track record of testing a variety of samples, including food, chemicals, and recyclable waste.

We provide optimal sample tests based on our many years of experience.



**Witness
the test
online can be
arranged.**



We have a variety of test machines and have created an environment where sample tests can be performed.
If you would like a sample test, please contact your nearest sales office.

Model Selection Guide

Tube Magnet, Grate Magnet, Strainer, Plate Magnet, etc.

Customer information (please fill in the information below and contact us by fax or e-mail)

Company Name			
Person in charge		Affiliated department	
Address	〒		
telephone number		FAX number	
Email			

Raw material specifications

Contents (raw materials)		Particle Size	mm	Temperature	℃
Throughput	(t/h·m ² /h)	Specific Gravity		Adhesion	<input type="checkbox"/> Yes <input type="checkbox"/> No
Moisture (viscosity)	wt%	Angle of Repose	Degree	Iron content	

Equipment being considered

Model	<input type="checkbox"/> Tube Magnet <input type="checkbox"/> Grate Magnet <input type="checkbox"/> Strainer Magnet <input type="checkbox"/> Plate Magnet <input type="checkbox"/> Others						
Magnetic force (Tube Magnet)	<input type="checkbox"/> 15000G	<input type="checkbox"/> 14000G	<input type="checkbox"/> 12000G	<input type="checkbox"/> 11000G	<input type="checkbox"/> 10000G	<input type="checkbox"/> 3000G	<input type="checkbox"/> Extremely small pitch
Magnetic force (Plate)	<input type="checkbox"/> 4500G	<input type="checkbox"/> 1500G	<input type="checkbox"/> 10000G(barrier stop)		<input type="checkbox"/> 4000G(barrier stop)		
Material	<input type="checkbox"/> SUS304 <input type="checkbox"/> SUS316L <input type="checkbox"/> Titanium <input type="checkbox"/> Others()						
Surface Finish	<input type="checkbox"/> Pickling <input type="checkbox"/> Buffing(#) <input type="checkbox"/> Others()						
Connection size	<input type="checkbox"/> Flange(A) <input type="checkbox"/> Ferrule(S) <input type="checkbox"/> Others()						
Double pipe	<input type="checkbox"/> Yes <input type="checkbox"/> No	Tube Magnet Quantity		Number of stages	Stages		

Other specifications (please specify)

Model Selection Guide

Suspension Magnetic Separators / Drum Magnetic Separators / Aluminum Separators

Customer information (please fill in the information below and contact us by fax or e-mail)

Company Name			
Person in charge		Affiliated department	
Address	〒		
Telephone number		FAX number	
Email			

Raw material specifications

Contents (raw materials)		Particle size	mm	Temperature	℃
Throughput	(t/h·m ²)	Specific Gravity		Liquidity	<input type="checkbox"/> ◎ <input type="checkbox"/> △ <input type="checkbox"/> ×
Moisture	wt%	Iron content			

Equipment specifications

Conveyor width	mm	Belt speed	m/min	Tilt angle	Every time
Trough	Every time	Layer thickness	mm	others	

Equipment being considered

Model	<input type="checkbox"/> Suspension (permanent magnetic) <input type="checkbox"/> Suspension (electromagnetic) <input type="checkbox"/> Drum (permanent magnetic) <input type="checkbox"/> Aluminum Separator <input type="checkbox"/> Others				
Model		Quantity			
Power supply	relative V	Hz	Magnetic force (permanent magnetism)	<input type="checkbox"/> standard <input type="checkbox"/> high magnetic force ()	
Control panel	<input type="checkbox"/> Required <input type="checkbox"/> Not required		Installation location		

Other specifications (please specify)

Model Selection Guide

Suspension Magnetic Separators / Drum Magnetic Separators / Aluminum Separators

Customer information (please fill in the information below and contact us by fax or e-mail)

Company Name			
Person in charge		Affiliated department	
Address	〒		
Telephone number		FAX number	
Email			

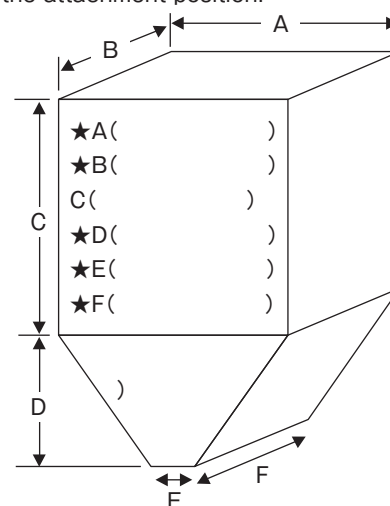
Raw material specifications

Contents (raw materials)			Remarks	
Specific gravity		particle size		Liquidity <input type="checkbox"/> good <input type="checkbox"/> usually <input type="checkbox"/> bad
Temperature	℃	Moisture content		Adhesion <input type="checkbox"/> good <input type="checkbox"/> usually <input type="checkbox"/> bad

Equipment specifications

Installation situation	<input type="checkbox"/> Newly established <input type="checkbox"/> Existing	
Installation location	<input type="checkbox"/> Hopper <input type="checkbox"/> Shoot <input type="checkbox"/> Other()	
Shape	<input type="checkbox"/> Round <input type="checkbox"/> Square <input type="checkbox"/> Other()	
Plate thickness	mm	
Material	<input type="checkbox"/> SS <input type="checkbox"/> SUS <input type="checkbox"/> Other()	
Inner lining	<input type="checkbox"/> Nothing <input type="checkbox"/> Yes(specifically)	
Clogging situation	<input type="checkbox"/> Bridge <input type="checkbox"/> Arching <input type="checkbox"/> Rat holes <input type="checkbox"/> Adhesion <input type="checkbox"/> Stuck <input type="checkbox"/> Other()	
Clogging time	<input type="checkbox"/> At the start of discharge <input type="checkbox"/> During discharge <input type="checkbox"/> others()	
Current workaround	<input type="checkbox"/> Nothing <input type="checkbox"/> Yes() <input type="checkbox"/> SS hammer <input type="checkbox"/> Plastic hammer(kg lb)	
Installation location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor	
Environment	<input type="checkbox"/> High temperature <input type="checkbox"/> Lots of dust	
Ambient temperature	℃	
Power supply	phase V	

Dimension table *If attached, please enter the attachment position.



- ☐Hopper ☐Shoot ☐Piping
 ● Size()
 ● Piping wall thickness()
 ● Piping length()
 *Please enter details in the notes section.
 ★: Please fill in as much information as possible.

Remarks

— LOCATION —



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