

磁力分選專家
Magnetic Sorting Solutions



2019 Version

磁力選別機

MAGNETIC SEPERATORS



延續物命，與地球和平共處

地球人口持續增加，資源減少，因此將垃圾變資源是未來革命的起點，從利用資源、管理資源到環保回收利用資源，不斷循環使用及永續發展。

NIANHUNG提供了優化資源的解決方案

- ☑ 專業整廠規劃
- ☑ 自動化回收分選設備
- ☑ 便利、快速、及準確的分選
- ☑ 大幅降低人力成本

NIANHUNG Sorting不斷為新的領域提供創新的分選解決方案，以滿足客戶的各種需求，其中涉及食品加工、資源回收利用、採礦、煤炭、金屬加工、包裝、製藥、塑料和橡膠、紡織和木材、紙張和紙漿等領域的重要行業參與者。

Extend Life Cycle. Peaceful Coexistence With The Earth

Due to rising world population and the decrease in our resources, turn waste into resources is how the future revolution begins. From using resources, stewarding resources to environmental recycling resources, we keep them in a cycle and develop sustainably.

NIANHUNG provides smart solutions for optimizing our resources

- ☑ Total Solutions
- ☑ Automated recycling sorting equipment
- ☑ More convenient and efficient sorting
- ☑ Reduce Labor Cost

NIANHUNG Sorting continuously establish innovate sorting solutions to new segments to meet our customer's needs. Those include food, recycling, coal, mining, metal working, packaging, pharmaceutical, plastics & rubber, textiles & wood, paper & pulp.

關於年弘

台灣年弘電機工業股份有限公司創立於西元1982年，並於西元1999年上海創立分公司「上海年弘磁業有限公司」，經過三十餘年努力發展，公司成為國內專業生產資源環保回收設備及永久磁鐵之企業，近年來力拼轉型到目前的永續經營階段，憑藉優異的研發技術團隊，不斷創新設計與改良磁性相關產品，並致力於各項產品研發，截至2019年，共獲得16項專利成果。以強力磁鐵本業為基礎，逐步擴展事業版圖、積極投入「回收分選設備」：如渦電流分選機等，以期啟動另一個成長引擎，再創營運高峰，並朝「節能環保」之使命邁進。

經營理念

董事長秉持創立初衷「延續物命」，認為地球只有一個，科技進步帶來許多負面影響，如物品汰換加速、資源過度開發等不可抹滅的傷害，因此為了給未來子孫一個美好環境，年弘始終堅持創立時的價值主張「永續經營、環保回收，在創造最高客戶價值的同時，亦兼顧與地球和平共處之使命，善盡環保社會之責任。」這是我們對地球的承諾。

願景及宗旨

世界快速變遷，為了接下來能長遠持續發展，我們必須更具前瞻性不斷創新及研發，設立長期目標以了解未來社會需求走向，因此我們必須為未來做好準備。年弘企業以「節能環保，不斷創新客戶價值，成為亞太區值得信賴的磁性設備企業」為願景，除持續深耕磁性設備專業外，亦致力於與相關企業合作，以便為顧客創造最大價值，此外年弘針對顧客設立專屬設計製造團隊，以彈性積極的態度滿足顧客的需求，團隊全心投入與不斷改善內部流程與產品品質，以「即時即量」的交期承諾和售後維修服務提供最佳品質的競爭力產品，以便為顧客創造最大價值，這是我們對客戶的承諾。

年弘電機工業股份有限公司
創辦人 **翁文瑞**

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渦電流分選機 Eddy Current Separator

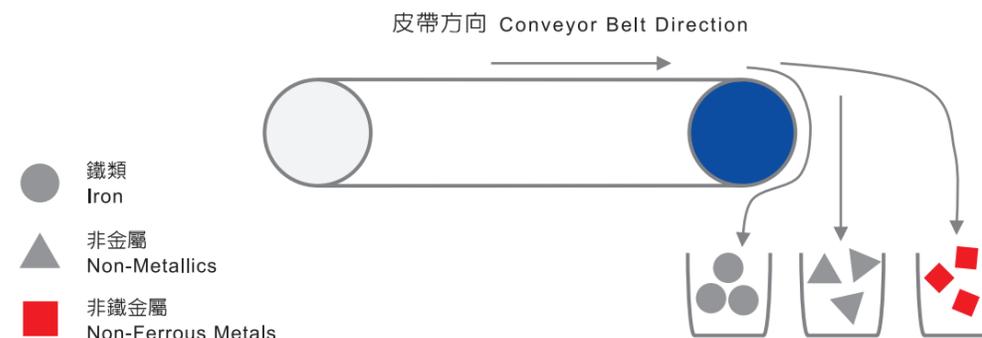


適用於分選非鐵金屬如銅、鋁、鉛、錫、塑料等原料

For the separation of non-ferrous metals such as copper, aluminum, lead, tin, plastic and other raw materials

01

渦電流分選機
Eddy Current Separator



國際專利 International Patent

用途 Usage

- ① 將鋁罐與塑料瓶或玻璃瓶等分選
- ② 高效分選回收混入到城市垃圾等破碎物中的鋁片
- ③ 從破碎機分選出銅和塑料
- ④ 用於從碎玻璃、電子產品的破碎物、汽車破碎物中分選回收有價值的金屬

1. Recovery aluminum cans from plastic and glass bottles
2. High efficiency of recovery of aluminum from city waste
3. Separation of copper and plastic from crusher machines
4. Recovery of valuable metals from glass, electronic scrap, car scrap

特徵 Features

- ① 兩種機型，依原料的尺寸大小選擇：ENH-L型適用於原料粒徑大於10mm
ENH-S型適用於原料粒徑小於10mm
- ② 振動送料機可將原料定量輸送，提高分選效率

1. Two models available: ENH-L for metal particles larger than 10 mm
ENH-S for metal particles smaller than 10 mm
2. Vibration feeder provides stable feed rate which can increase the sorting efficiency

規格 Specification

- ① 高速渦輪旋轉次數 ENH-L型：最高2,000 rpm；ENH-S型：最高 2,500 rpm
- ② 附帶專用控制箱
- ③ 傳送帶的驅動採用橫置馬達
- ④ 可依客戶需求客製化機器

1. Magnetic drum speed: Model ENH-L: Max. 1,800 rpm
Model ENH-S: Max. 2,500 rpm

2. Controller included
3. Belt drive with hybrid gear motor
4. Customization of machine to meet the needs of customer

渦電流分選機
Eddy Current Separator

永磁吊式磁選機
Suspended Permanent Magnetic Separator

永磁氣壓式磁選機
Pneumatic Magnetic Separator

永磁立式磁選機
Vertical Magnetic Separator

永磁平面輸送式磁選機
Belt Conveyor Magnetic Separator

永磁刮板式磁選機
Scraper-Type Magnetic Separator

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Combined Machinery

金屬探測器
Metal Detector

磁力棒
Tube Magnetic

磁力架
Grate Magnet

磁棒箱
Magnetic Box

管路式過濾器
Magnetic Strainer

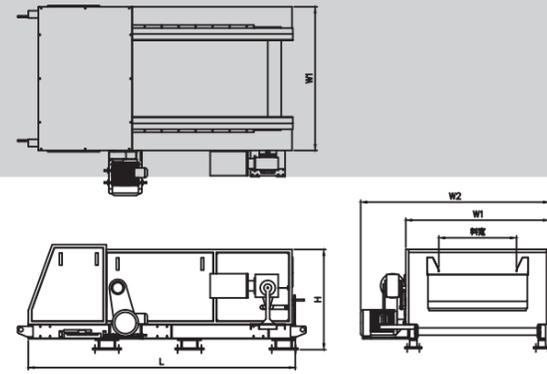
磁鼓
Magnetic Drum

磁滾輪
Magnetic Roller/
Magnetic Pulley

磁力板
Magnetic Plate

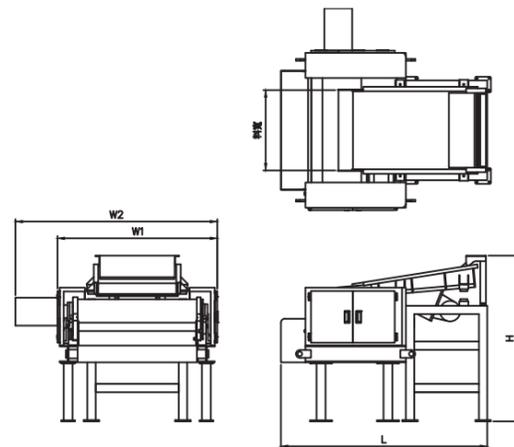
非接觸式傳動軸
Non-Contact
Magnetic Transmission Drives

磁力相關產品
Magnet Related Products



■ ENH-L 系列 Series

型號 Model	本體尺寸 Body Dimensions(mm)				料寬 Belt Width	迴轉數 (RPM)	皮帶速度 Belt Speed (m/min)	出力 Power Output(kW)		概算重量 Weight (KG)
	L	W1	W2	H				皮帶 Belt	渦輪 Roller	
ENH-L600	3000	1300	1800	1050	600	3000 可變 Variable	20-100 可變 Variable	1.5	3.7	1600
ENH-L800		1500	2000		800					2000
ENH-L1000		1700	2200		1000			2.2	5.5	2500



■ ENH-S 系列 Series

型號 Model	本體尺寸 Body Dimensions(mm)				料寬 Belt Width	迴轉數 (RPM)	皮帶速度 Belt Speed (m/min)	出力 Power Output(kW)		概算重量 Weight (KG)
	L	W1	W2	H				皮帶 Belt	渦輪 Roller	
SENH-S300	1850	1000	1300	1500	300	2500 可變 Variable	20-100 可變 Variable	0.75	2.2	1000
SENH-S600		1300	1600		600					3.7

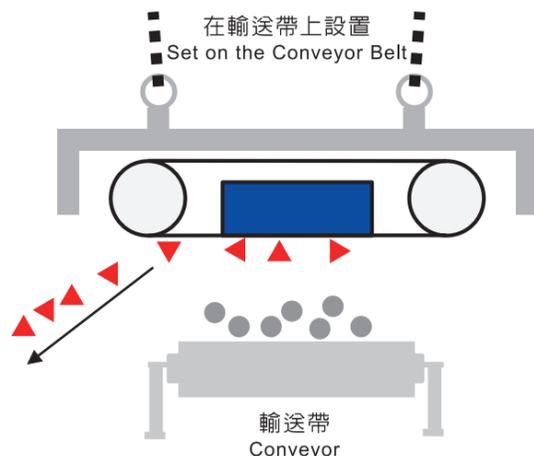
吊式磁選機

Suspended Permanent Magnetic Separator



適用於建築、爐渣、砂石、鋼鐵、煤炭、木材、棧板回收等產業，能有效排除原料中的含鐵物質

Applicable to use in construction, slag, sand, steel, coal, wood, pallet recycling and other industries. It can effectively exclude iron-containing substances in raw materials



- ▲ 磁性物
Magnetic Substance
- 非磁性物
Non-magnetic Substance

國際專利 International Patent

用途 Usage

將吊式磁選機懸掛在傳送帶上方，從搬送的原料中，將鐵片等磁性物質吸附並排出

Suspension Permanent Magnetic Separator is designed to install above and 90 degrees to the conveyor belt to remove scrap metals from the materials on the moving conveyor

特徵 Features

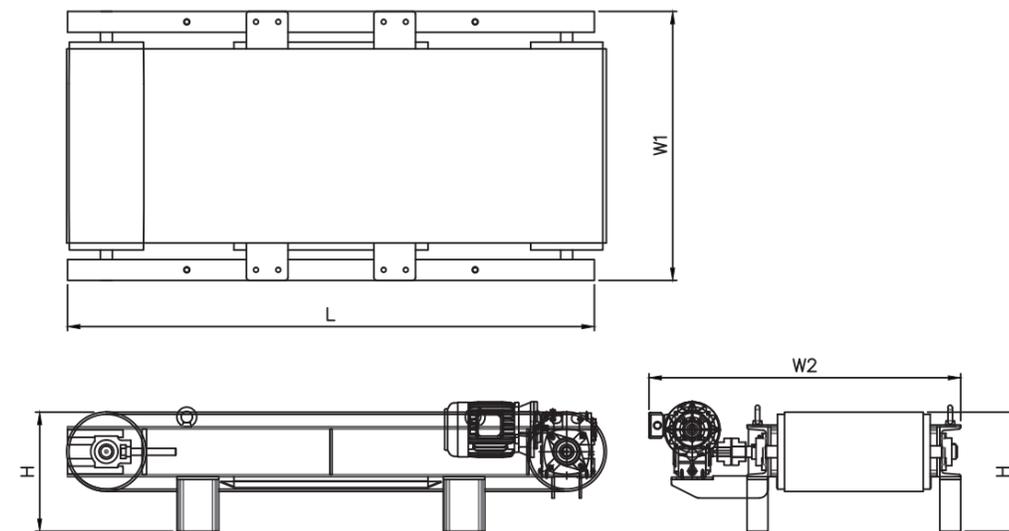
- ① 本設備使用的是永久磁鐵，不需任何電源
- ② 本設備可適用於室外作業
- ③ 使用橫向設置馬達，結構精小

1. No operating energy is required
2. Tough durable design is suitable for outdoor use
3. Compact size with reliable performance

規格 Specification

- ① 標準傳送帶由耐磨橡膠製作而成
- ② 備有懸掛用的螺絲
- ③ 最高磁力可達5,000高斯
- ④ 可依客戶需求客製化機器

1. Standard model equipped with wear protection wiper
2. Comes with hook for hanging installation
3. Highest magnetic force can reach 5,000 Gauss
4. Customization of machine to meet the needs of customer



■ HNH 系列 Series

型號 Model	磁力 Magnetic Force (GAUSS)	吸距 Attraction Distance (mm)	客戶料寬 Belt Width (mm)	本體尺寸 Body Dimensions(mm)				皮帶速度 Belt Speed (m/min)	出力 Power Output (kW)	吊掛方式 Hanging Way	概算重量 Weight (KG)		
				L	W1	W2	H						
HNH-8003	3000	300	800	1900	970	1100	430	145 可變 Variable	1.5	十字	900		
HNH-10003			1000								1100		
HNH-8004	4000	400	800								2.2	1100	1100
HNH-10004			1000									1300	
HNH-8005	5000	500	800									1300	
HNH-10005			1000										1500

永磁氣壓式磁選機 Pneumatic Magnetic Separator



廣泛應用於建築、爐渣、砂石、鋼鐵、
煤炭、木材、棧板、資源回收廠...等含鐵物質的排除

Widely used in construction, slag,
sand, steel, coal, wood, pallet recycling and other industries.
It can effectively exclude iron-containing substances in raw materials

03

永磁氣壓式磁選機 Pneumatic Magnetic Separator

用途 Usage

將氣壓式磁選機懸掛在傳送帶上方，從搬送的原料中，將鐵片等磁性物質吸附並藉由氣壓缸排出

Pneumatic Magnetic Separator is designed to install above and 90 degrees to the conveyor belt to remove scrap metals by pneumatic cylinder from the materials on the moving conveyor.

特徵 Features

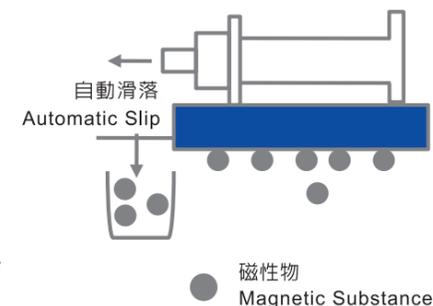
- ① 本設備使用的是永久磁鐵，只需接空壓機不需任何電源
- ② 本設備可適用於室外作業
- ③ 磁性物質、含鐵雜質吸附上來後，透過氣壓缸自動排除，節省人力

1. Only require air compressor, completely free of electricity
2. Tough durable design is suitable for outdoor use
3. After the magnetic substance and the iron-containing impurities are adsorbed up, they are automatically removed through the pneumatic cylinder, saving manpower

規格 Specification

- ① 最高磁力可達5,000高斯
- ② 可依客戶需求客製化機器
- ③ 氣壓缸可附加感應開關以控制行程距離

1. Highest magnetic force can reach 5,000 Gauss
2. Customization of machine to meet the needs of customer
3. Pneumatic cylinders can be equipped with an inductive switch to control the stroke distance



國際專利 International Patent

PNH 系列 Series

型號 Model	磁力 Magnetic Force (GAUSS)	吸距 Attraction Distance (mm)	客戶料寬 Belt Width (mm)	本體尺寸 Body Dimensions(mm)				氣壓缸行程 Pneumatic Cylinders Stroke Distance(mm)	出力 Power Output (kW)	吊掛方式 Hanging Way	概算重量 Weight (KG)
				L	W1	W2	H				
PNH-8003	3000	300	800	2100	970	1010	550	1300 可變 Variable	1000	十字	700
PNH-10003			1000								900
PNH-8004	4000	400	800								900
PNH-10004			1000								1100
PNH-8005	5000	500	800								1100
PNH-10005			1000								1300

渦電流分選機
Eddy Current Separator

永磁吊式磁選機
Suspended Permanent Magnetic Separator

永磁氣壓式磁選機
Pneumatic Magnetic Separator

永磁立式磁選機
Vertical Magnetic Separator

永磁平面輸送式磁選機
Belt Conveyor Magnetic Separator

永磁刮板式磁選機
Scraper-Type Magnetic Separator

永磁濕式磁選機
Wet-Type Magnetic Separator

鐵罐分選機
Can Sorting Machine

震動過篩機
Vibratory Screener

螺旋過篩機
Spiral Screener

組合式機械
Combined Machinery

金屬探測器
Metal Detector

磁力棒
Tube Magnetic

磁力架
Grate Magnet

磁棒箱
Magnetic Box

管路式過濾器
Magnetic Strainer

磁鼓
Magnetic Drum

磁滾輪
Magnetic Roller/
Magnetic Pulley

磁力板
Magnetic Plate

非接觸式傳動軸
Non-Contact
Magnetic Transmission Drives

磁力相關產品
Magnet Related Products

永磁立式磁選機 Vertical Magnetic Separator

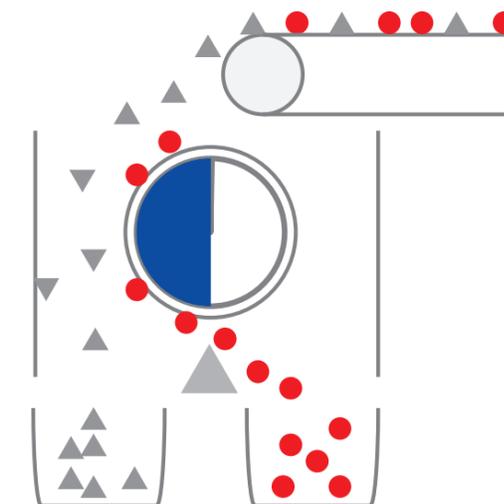


適用於分選橡塑膠類、ABS、PET、PP、
食品、生化、飼料、肥料及各類乾式原料裡的鐵屑

Applicable to separate iron filings
from rubber, plastic, ABS, PET, PP, food,
biochemical, feed, fertilizer in various dry materials

04

永磁立式磁選機 Vertical Magnetic Separator



- 磁性物
Magnetic Substance
- ▲ 非磁性物
Non-magnetic Substance

國際專利 International Patent

用途 Usage

適用於分選乾式原料如食品、飼料、ABS、PET、PP中裡鐵性物質

Vertical Magnetic Separator is used for separating iron filings from various dry materials such as food, feed, ABS, PET, PP

特徵 Features

- ① 永久磁鐵設計，不需任何電源
 - ② 本設備可適用於室外作業
1. No operating energy is required
 2. Tough durable design is suitable for outdoor use

規格 Specification

- ① 最高磁力可達8,000高斯
- ② 尺寸機型或特殊規格可依客戶需求客製化機器

1. Highest magnetic force can reach 8,000 Gauss
2. Customization of machine such as dimensions, models or specifications to meet the needs of customer

渦電流分選機
Eddy Current Separator

永磁吊式磁選機
Suspended Permanent Magnetic Separator

永磁氣壓式磁選機
Pneumatic Magnetic Separator

永磁立式磁選機
Vertical Magnetic Separator

永磁平面輸送式磁選機
Belt Conveyor Magnetic Separator

永磁刮板式磁選機
Scraper-Type Magnetic Separator

永磁濕式磁選機
Wet-Type Magnetic Separator

鐵罐分選機
Can Sorting Machine

震動過篩機
Vibratory Screener

螺旋過篩機
Spiral Screener

組合式機械
Combined Machinery

金屬探測器
Metal Detector

磁力棒
Tube Magnetic

磁力架
Grate Magnet

磁棒箱
Magnetic Box

管路式過濾器
Magnetic Strainer

磁鼓
Magnetic Drum

磁滾輪
Magnetic Roller/
Magnetic Pulley

磁力板
Magnetic Plate

非接觸式傳動軸
Non-Contact
Magnetic Transmission Drives

磁力相關產品
Magnet Related Products

渦電流分選機
Eddy Current Separator

永磁吊式磁選機
Suspended Permanent Magnetic Separator

永磁氣壓式磁選機
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磁鼓
Magnetic Drum

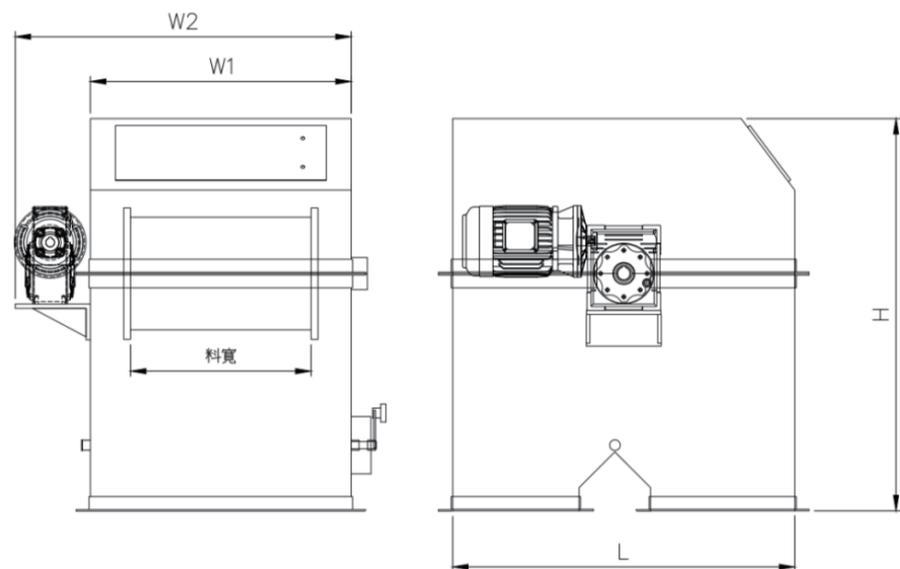
磁滾輪
Magnetic Roller/
Magnetic Pulley

磁力板
Magnetic Plate

非接觸式傳動軸
Non-Contact
Magnetic Transmission Drives

磁力相關產品
Magnet Related Products

永磁平面輸送式磁選機/不鏽鋼分選機 Belt Conveyor Magnetic Separator Stainless Steel Sorting Machine



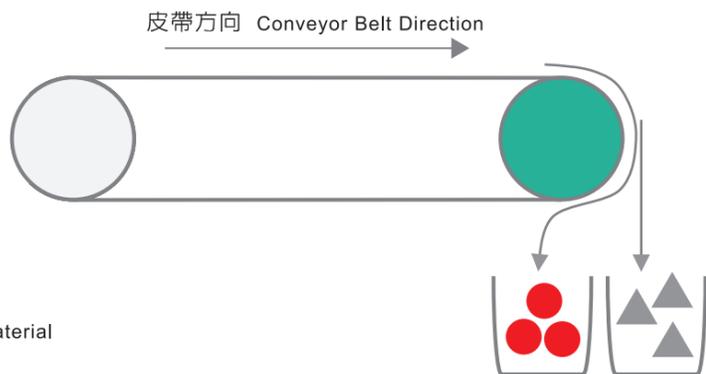
■ VNH 系列 Series

型號 Model	磁力 Magnetic Force (GAUSS)	本體尺寸 Body Dimensions(mm)					外徑 Outer Diameter Ø(mm)	迴轉數 (RPM)	出力 Power Output (kW)	概算 重量 Weight (KG)
		L	W1	W2	H	料寬 Belt Width				
VNH-600	1000 ~8000	650	730	755	1100	600	400 可變 Variable	20~40	0.75	350
VNH-800		750	930	955		800				
VNH-1000		850	1130	1155		1000			1.5	480

廣泛用於砂石、煤炭、爐渣、肥料、飼料、
橡塑膠、資源回收等需要去除或分選鐵類的產業

Widely used in sandstone, coal, slag, fertilizer, feed,
rubber and plastics, resource recovery and other industries

永磁平面輸送式磁選機 / 不鏽鋼分選機
Belt Conveyor Magnetic Separator
Stainless Steel Sorting Machine



- 鐵類
Iron
- ▲ 非鐵類物料
Non-Ferrous Material

用途 Usage

- ① 分選或去除黑鐵類與非鐵類物料
- ② 分選或去除不銹鋼與非鐵類物料

1. Separation or remove of black Iron and non-ferrous materials
2. Separation or remove of stainless steel and non-ferrous materials

特徵 Features

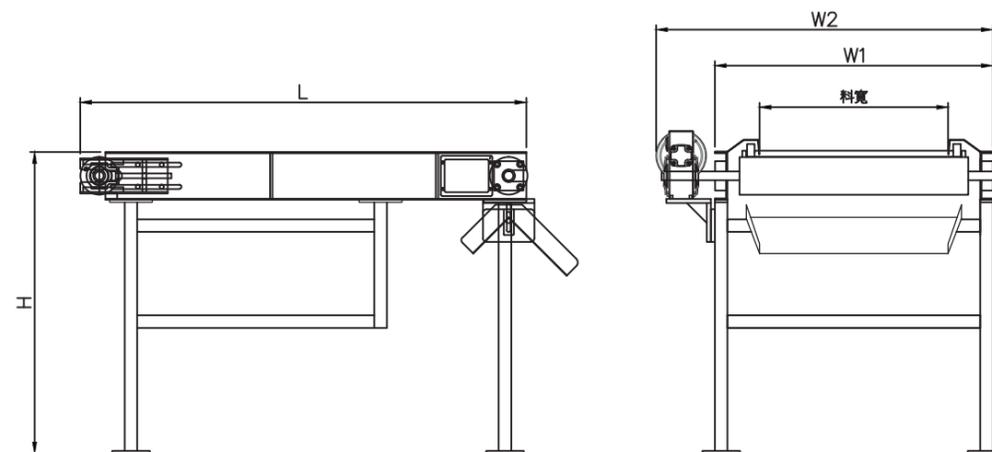
- ① 兩種機型，依分選原料的類別選擇：
 - TNH-600-3K型磁力3000高斯適用於分選原料中的黑鐵
 - TNH-900-16K型磁力16000高斯適用於分選原料中的不銹鋼
- ② 附帶移動車輪，可自由移動
- ③ 本設備使用的是永久磁鐵，不需任何電源
- ④ 振動送料機可將原料定量輸送，提高分選效率

1. Two models available:
 - Model TNH-600-3K: magnetic force 3000 Gauss which is applicable for removing black iron in raw materials
 - Model TNH-900-16K: magnetic force 16000 Gauss which is applicable for removing stainless steel in raw materials
2. Simple operation and rolls for easy relocation
3. No operating energy is required
4. Vibration feeder provides stable feed rate which can increase the sorting efficiency

規格 Specification

- ① 標準傳送帶由耐磨橡膠製作而成
- ② 最高磁力可達17,000高斯
- ③ 可依客戶需求客製化機器

1. Standard model equipped with wear protection wipe
2. Highest magnetic force can reach 17,000 Gauss
3. Customization of machine to meet the needs of customer



■ TNH 系列 Series

型號 Model	磁力 Magnetic Force (GAUSS)	本體尺寸 Body Dimensions(mm)					皮帶速度 Belt Speed (m/min)	出力 Power Output (kW)	概算 重量 Weight (KG)
		L	W1	W2	H	料寬 Belt Width			
TNH-500	3000 ~17000	1800	700	730	1200	500	20~40 可變 Variable	0.75	560
TNH-700			900	930		700			580
TNH-900			1100	1130		900			680

06

永磁刮板式磁選機
Scraper-Type Magnetic Separator

用途 Usage

適用於分選出食品、化工、醫藥、活性炭、回收塑膠粒及乾粉類原料中的含鐵物質

Applicable for removing iron-containing impurities from raw materials of food, chemicals, pharmaceuticals, activated carbon, recycled plastic pellets and dry powders

特徵 Features

- ① 本設備使用的是永久磁鐵，不需任何電源
- ② 機體由SUS304、SUS316L不鏽鋼SS41鐵板組成
- ③ 尺寸、形狀或其他參數可依客戶屬性設計製作

- 1. No operating energy is required
- 2. The machine body consists of SUS304, SUS316L stainless steel SS41 iron plate
- 3. Size, shape or other parameters can be customized according to customer needs



07

永磁濕式磁選機
Wet-Type Magnetic Separator

用途 Usage

適用於吸附金屬CNC加工、光電產業、半導體產業中切削油裡的鐵性汙泥，並自動排出

Applicable to use in attracting iron sludge in cutting oil from metal CNC machining, photovoltaic industry, semiconductor industry and automatically discharge iron sludge

特徵 Features

- ① 本設備使用的是永久磁鐵，不需任何電源
- ② 各類原料之含鐵雜質，可擷取至3%以下的含鐵量
- ③ 機體由SUS304、SUS316L不鏽鋼、SS41鐵板組成
- ④ 尺寸、形狀或其他參數可依客戶屬性設計製作

- 1. No operating energy is required
- 2. The iron-containing impurities of various raw materials can be extracted to less than 3% of iron
- 3. The machine body consists of SUS304, SUS316L stainless steel SS41 iron plate
- 4. Size, shape or other parameters can be customized according to customer needs



國際專利 International Patent

08

鐵罐分選機
Can Sorting Machine

用途 Usage

- ① 分選鐵罐與鋁罐
- ② 分選鐵與回收橡膠、玻璃、木屑、非鐵金屬等中的磁性物質

- 1. Separation of aluminum and steel cans
- 2. Iron recovery from rubber, glass, wood waste and other non-ferrous materials

特徵 Features

- ① 操作簡單。附帶移動車輪，可自由調整擺放位置
- ② 可將本設備與磁鼓或吊式磁選機搭配使用，便於大量分選
- ③ 搭配渦電流分選機可提高分選效果
- ④ 也可以安裝變速器控制傳送帶速度，便於配合人力分選
- ⑤ 規格、尺寸、磁力可依客戶需求客製化

- 1. Simple operation and with moving wheel for freely adjustable location
- 2. Optional magnetic drum and suspended magnetic separator will increase process volume
- 3. Combined with eddy current separator to increase sorting efficiency
- 4. Optional belt conveyor speed adjustment inverter for quick manual separation process
- 5. Custom specification, dimensions and magnetic forces available



渦電流分選機
Eddy Current Separator

永磁吊式磁選機
Suspended Permanent Magnetic Separator

永磁氣壓式磁選機
Pneumatic Magnetic Separator

永磁立式磁選機
Vertical Magnetic Separator

永磁平面輸送式磁選機
Belt Conveyor Magnetic Separator

永磁刮板式磁選機
Scraper-Type Magnetic Separator

永磁濕式磁選機
Wet-Type Magnetic Separator

鐵罐分選機
Can Sorting Machine

震動過篩機
Vibratory Screener

螺旋過篩機
Spiral Screener

組合式機械
Combined Machinery

金屬探測器
Metal Detector

磁力棒
Tube Magnetic

磁力架
Grate Magnet

磁棒箱
Magnetic Box

管路式過濾器
Magnetic Strainer

磁鼓
Magnetic Drum

磁滾輪
Magnetic Roller/
Magnetic Pulley

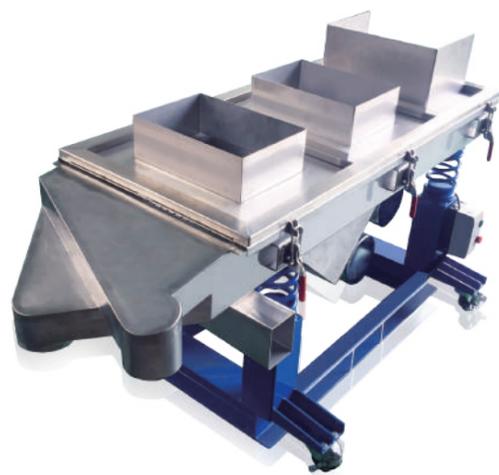
磁力板
Magnetic Plate

非接觸式傳動軸
Non-Contact
Magnetic Transmission Drives

磁力相關產品
Magnet Related Products

09

震動過篩機
Vibratory Screener



用途 Usage

本機器廣泛適用於陶瓷、食品、醫藥、化工、粉末冶金、電子、塑膠、橡膠、研磨、廢水處理、生物科技...等各行各業及相關領域中的任何粉、粒、粘液狀物料的分離、篩選、過濾作業

Widely used in ceramics, food, medicine, chemical, powder metallurgy, electronics, plastics, rubber, grinding, wastewater treatment, biotechnology, and other related industries. Separation, screening and filtration of powder, granules and mucous materials in any of the aforementioned industries

特徵 Features

處理能力以過篩網目數大小為參考。因各種條件之改變，原料種類、形狀、粉粒構成、比重、網目及要求程序不同，其處理能力能夠根據物料實際狀況改變及調整

Processing capacity is based on the screen mesh size. Its processing capacity can be changed and adjusted according to the various condition, such as material type, shape, composition of powder

SNH 系列 Series

型號 Model	篩面直徑 Screen diameter Ø (mm)	馬力 Horse power (hp)	體積(長X寬X高) Size (length x width x height) (mm)	材質 Material
SNH-420	Ø 420X1000	1/4HPX2	1500X650X690 mm	不鏽鋼 Stainless steel
SNH-500	Ø 500X1330	1/3HPX2	2100X726X800 mm	
SNH-700	Ø 700X1550	1/3HPX2	2200X930X880 mm	

10

螺旋過篩機
Spiral Screener



用途 Usage

篩選原料中小於所設定粒徑的物質

Sorting the material in the raw material is smaller than the set particle size

特徵 Features

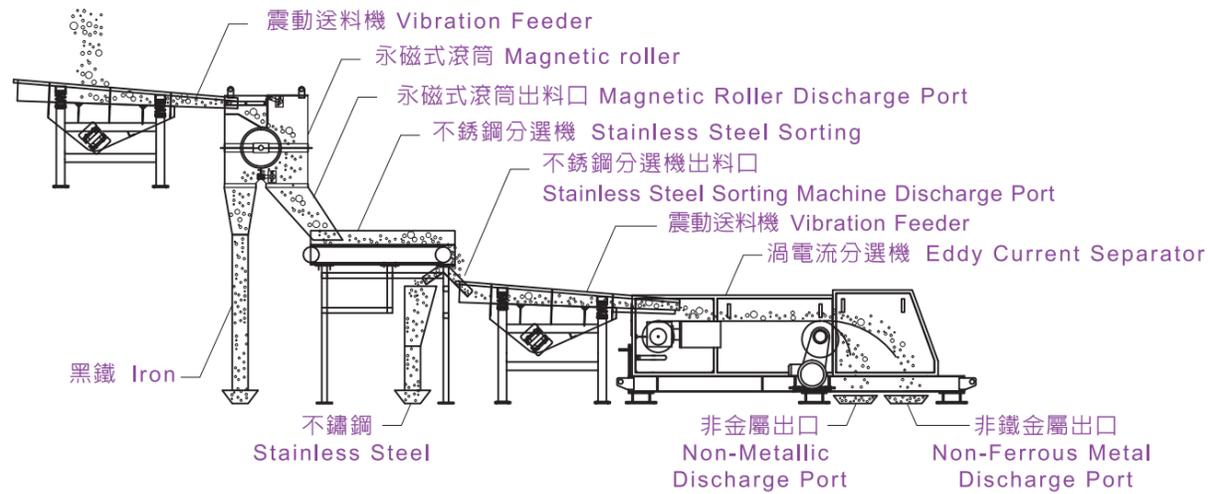
- ① 可依客戶需求客製化機器
- ② 特殊送料口，輔以螺旋篩網，可有效篩選出小於設定粒徑的物質

- 1. Customization of machine to meet the needs of customer
- 2. The special feeding port, supplemented by a spiral screen, can effectively screen out substances smaller than the set particle size

■ 金屬分選整合服務 Metal Sorting Integration Service

根據所需要處理的物料，規劃最適合您的金屬整合方案

We provide most suitable metal integration solutions based on material to be sorted



1

Z型輸送機 → 震動送料機 → 吊式磁選機 → 渦電流分選機
Z Type Belt Conveyor → Vibration Feeder → Suspended Magnetic Separator → Eddy Current Separator



2

震動送料機 → 吊式磁選機 → 不銹鋼分選機 (平面輸送式磁選機)
Vibration Feeder → Suspended Magnetic Separator → Stainless Steel Sorting Machine



3

震動送料機 → 吊式磁選機 → 渦電流分選機
Vibration Feeder → Suspended Magnetic Separator → Eddy Current Separator



4

輸送機 → 震動送料機 → 不銹鋼分選機 → 渦電流分選機
Belt Conveyor → Vibration Feeder → Stainless Steel Sorting Machine → Eddy Current Separator





用途 Usage

- ① 專門用於食品、藥品中的鐵金屬、非鐵金屬以及合金雜質的探測
- ② 探測化工原料、橡膠產品以及紙質產品中的各種金屬碎片

1. Specially used for the detection of iron, non-ferrous metals and alloy impurities in foods and pharmaceuticals
2. Detection of various metal fragments in chemical raw materials, rubber products, and paper products

特徵 Features

- ① 採用國內外金屬探測設備中所使用的平衡式原理，穩定可靠，性能更佳
- ② 定位調節技術，能將進行中的速度調節，有效抑制產品效應
- ③ DSP和單片機體結合對檢測信號進行數據樣和數據處理，提高檢驗效果
- ④ 能檢測鐵、不銹鋼、銅、鋁及其他有色金屬等多種材質。具有記憶功能，探測的範圍擴大
- ⑤ 記憶功能可儲存20種產品檢測參數
- ⑥ 能夠方便調整靈敏度，檢測靈敏度可達到的指標為不銹鋼SUS Φ 1.5mm，鐵Fe達到 Φ 0.7mm (500mmx200mm窗口)。

1. It adopts the balanced principle used in metal detection equipment at Taiwan and abroad, which is stable and reliable, and has better performance
2. The positioning adjustment technology can adjust the speed in progress and effectively suppress the product effect
3. The combination of DSP and single-chip microcomputer performs data sample and data processing on the detection signal to improve the inspection effect
4. It can detect a variety of materials such as iron, stainless steel, copper, aluminum and other non-ferrous metals. With memory function, the range of detection is expanded
5. The memory function stores 20 product detection parameters
6. It is easy to adjust the sensitivity. The detection sensitivity can be achieved by stainless steel SUS Φ 1.5mm and iron Fe Φ 0.7mm (500mmx200mm window)

規格 Specification

探測方式 Detection Method	電磁感應 Electromagnetic Induction
探測靈敏度 Detection Sensitivity	Fe Φ 0.7mm SUS Φ 1.5mm (通道中心 Channel Center)
探測面寬度 Detection Width	500 mm
報警方式 Alarm Mode	蜂鳴器、放光管 Buzzer、Light Pipe
輸送速度 Speed	32m/分min (50Hz)、40m/分min (60Hz)
電源 Power Supply	AC220V/380V 50-60HZ
功率 Power	約140W
外型尺寸 Dimensions	1500mm(L)x850mm(W)x1000m(H)
重量 Weight	約160Kg

■ SNH 系列 Series

檢測高度 Detection Height	檢測靈敏度 Detection Sensitivity
80mm	Fe Φ 0.50mm SUS Φ 1.0mm 可節選
100mm	Fe Φ 0.50mm SUS Φ 1.2mm 可節選
120mm	Fe Φ 0.50mm SUS Φ 1.5mm 可節選
150mm	Fe Φ 0.50mm SUS Φ 1.6mm 可節選
200mm	Fe Φ 0.50mm SUS Φ 2.0mm 標準機

渦電流分選機
Eddy Current Separator永磁吊式磁選機
Suspended Permanent Magnetic Separator永磁氣壓式磁選機
Pneumatic Magnetic Separator永磁立式磁選機
Vertical Magnetic Separator永磁平面輸送式磁選機
Belt Conveyor Magnetic Separator永磁刮板式磁選機
Scraper-Type Magnetic Separator永磁濕式磁選機
Wet-Type Magnetic Separator鐵罐分選機
Can Sorting Machine震動過篩機
Vibratory Screener螺旋過篩機
Spiral Screener組合式機械
Combined Machinery金屬探測器
Metal Detector磁力棒
Tube Magnetic磁力架
Grate Magnet磁棒箱
Magnetic Box管路式過濾器
Magnetic Strainer磁鼓
Magnetic Drum磁滾輪
Magnetic Roller/
Magnetic Pulley磁力板
Magnetic Plate非接觸式傳動軸
Non-Contact
Magnetic Transmission Drives磁力相關產品
Magnet Related Products

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磁力棒
Tube Magnet



國際專利 International Patent

用途 Usage

橡塑膠、PET、食品、化工、肥料、生化、回收、玻璃原料等產業，將原料中含鐵雜質有效吸附去除

Effectively remove iron-containing impurities in raw materials of industries such as rubber and plastics, PET, food, chemical, fertilizer, biochemical, recycling, and glass raw materials

特徵 Features

- ① 本產品採用不銹鋼管，在液體裡也可使用
- ② 可提供表面磁力高達13000高斯的磁棒
- ③ 可按照顧客要求的長度進行製造
- ④ 可以附帶吊環，螺絲孔，把手等設計
- ⑤ 在磁棒管表面可以進行離子氮化，雷射刻字以及鐵氟龍的加工等

1. It can also be used in liquid
2. Magnetic force on bar surface can reach 13000 Gauss
3. It can be manufactured with the desired lengths
4. It is also possible to design rings, screw hole, handles, etc
5. The tube surface can be processed with teflon and nitriding

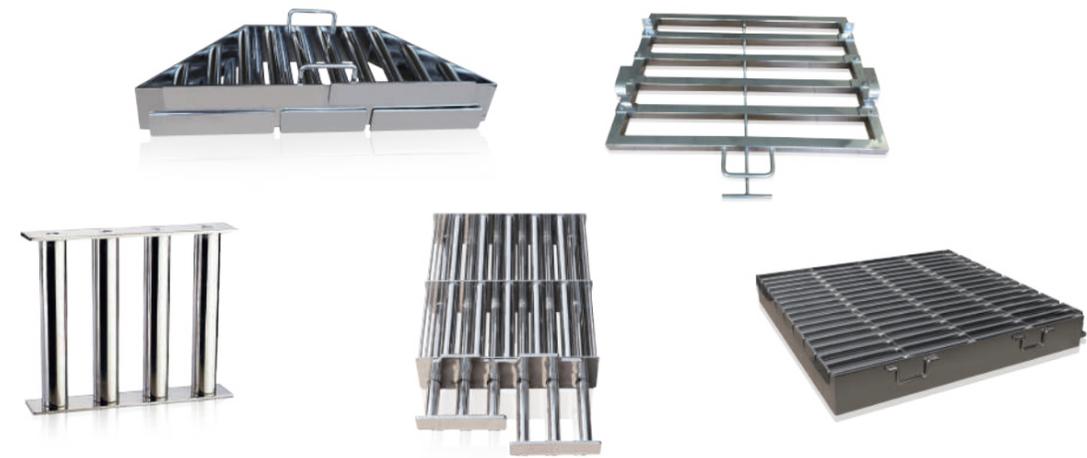
規格 Specification

- ① 磁力3000高斯至13000高斯，依客戶需求製作
- ② 鋼管材質：SUS304，SUS316，管口直徑 ϕ 25.4mm，依客戶需求製作
- ③ 管口形狀可做方形或圓形

1. Magnetic force between 3,000 to 13,000 Gauss according to customer needs
2. Pipe material : SUS304, SUS316 Tube Diameter : ϕ 25.4 mm, according to customer needs
3. Tube shape can be made with round-type or square-type

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磁力架
Grate Magnet



用途 Usage

可以簡單安裝於入料口，出料口或中段送料的管路處，將原料中含鐵雜質有效吸附及去除

Easy to install on the feed port or discharge port of hopper or middle of the feeder and effectively remove iron-containing impurities in raw materials

特徵 Features

- ① 本產品採用不銹鋼管，在液體裡也可使用
- ② 可提供表面磁力高達13000高斯的磁棒
- ③ 可根據安裝部位製造客製化長度
- ④ 可以附帶吊環，螺絲孔，把手等設計
- ⑤ 在磁棒管表面可以進行離子氮化，雷射刻字以及鐵氟龍的加工等
- ⑥ 可做雙套設計，以便於清除
- ⑦ 可根據使用原料調整磁棒間距

1. It can also be used in liquid
2. Magnetic force on bar surface can reach 13000 Gauss
3. Custom sizes and designs available
4. It is also possible to design rings, screw hole, handles, etc.
5. The tube surface can be processed with teflon and nitriding
6. Double tube design available for easy cleaning
7. Custom number of tubes and configuration based on the raw material

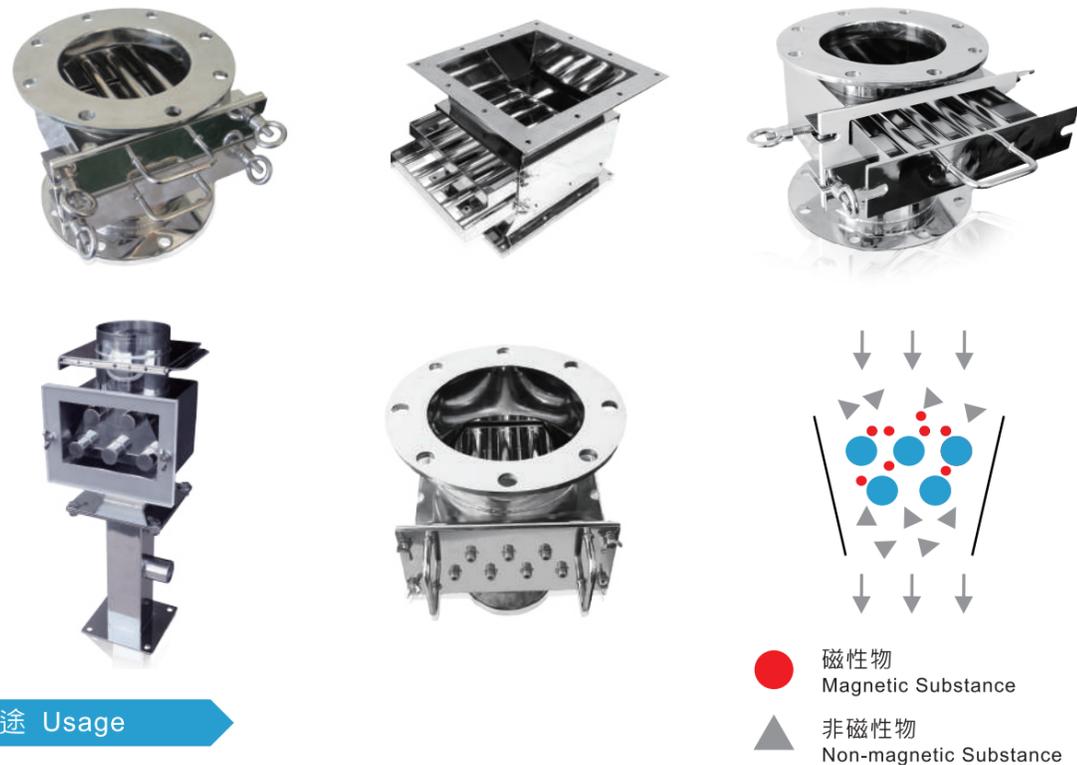
規格 Specification

- ① 磁力3000高斯至13000高斯，依客戶需求製作
- ② 鋼管材質：SUS304，SUS316，管口直徑 ϕ 25.4mm，依客戶需求製作
- ③ 可做雙套設計，以便於清除

1. Magnetic force between 3,000 to 13,000 according to be designed according to customer needs
2. Pipe material : SUS304, SUS316 Tube Diameter : ϕ 25.4 mm according to be designed according to customer needs
3. Double tube design available for easy cleaning

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磁棒箱
Magnetic Box



用途 Usage

連接於生產線上，去除原料裡所含的鐵類雜質

Connected to the production line to remove iron impurities contained in the raw materials.

特徵 Features

- ① 可提供表面磁力高達13000高斯的磁棒
- ② 可設計法蘭、金屬箍與生產線連接
- ③ 在磁棒管表面可以進行離子氮化，雷射刻字以及鐵氟龍的加工等
- ④ 周圍完全焊接，提供高等級清潔環境

- 1. Magnetic force on bar surface can reach 13000 Gauss
- 2. Flanges and ferrules can be designed to be connected to the production line
- 3. The tube surface can be processed with teflon and nitriding
- 4. Fully welded around, providing a high level of cleanliness

規格 Specification

- ① 磁力3000高斯至13000高斯，依客戶需求製作
- ② 鋼管材質：SUS304，SUS316
- ③ 可做雙套設計，以便於清除

- 1. Magnetic force between 3,000 to 13,000 according to be designed according to customer needs
- 2. Pipe material: SUS304, SUS316
- 3. Double tube design available for easy cleaning

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管路式過濾器
Magnetic Strainer



國際專利 International Patent

用途 Usage

適用於去除液體或漿料中的含鐵雜質

Applicable to separate ferrous materials from liquid or slurry material

特徵 Features

- ① 可提供表面磁力高達13000高斯的磁棒
- ② 可設計法蘭、金屬箍與生產線連接
- ③ 在磁棒管表面可以進行離子氮化，雷射刻字以及鐵氟龍的加工等
- ④ 周圍完全焊接，提供高等級清潔環境
- ⑤ 依客戶需求客製化設計

- 1. Magnetic force on bar surface can reach 13000 Gauss
- 2. Flanges and ferrules can be designed to be connected to the production line
- 3. The tube surface can be processed with teflon and nitriding
- 4. Fully welded around, providing a high level of cleanliness
- 5. Custom sizes and designs available

規格 Specification

- ① 磁力10000高斯至13000高斯，依客戶需求製作
- ② 鋼管材質：SUS304，SUS316
- ③ 可做雙套設計，以便於清除

- 1. Magnetic force between 10,000 to 13,000 according to be designed according to customer needs
- 2. Pipe material: SUS304, SUS316
- 3. Double tube design available for easy cleaning

渦電流分選機
Eddy Current Separator

永磁吊式磁選機
Suspended Permanent Magnetic Separator

永磁氣壓式磁選機
Pneumatic Magnetic Separator

永磁立式磁選機
Vertical Magnetic Separator

永磁平面輸送式磁選機
Belt Conveyor Magnetic Separator

永磁刮板式磁選機
Scraper-Type Magnetic Separator

永磁濕式磁選機
Wet-Type Magnetic Separator

鐵罐分選機
Can Sorting Machine

震動過篩機
Vibratory Screener

螺旋過篩機
Spiral Screener

組合式機械
Combined Machinery

金屬探測器
Metal Detector

磁力棒
Tube Magnetic

磁力架
Grate Magnet

磁棒箱
Magnetic Box

管路式過濾器
Magnetic Strainer

磁鼓
Magnetic Drum

磁滾輪
Magnetic Roller/
Magnetic Pulley

磁力板
Magnetic Plate

非接觸式傳動軸
Non-Contact
Magnetic Transmission Drives

磁力相關產品
Magnet Related Products

17

磁鼓 Magnetic Drum

用途 Usage

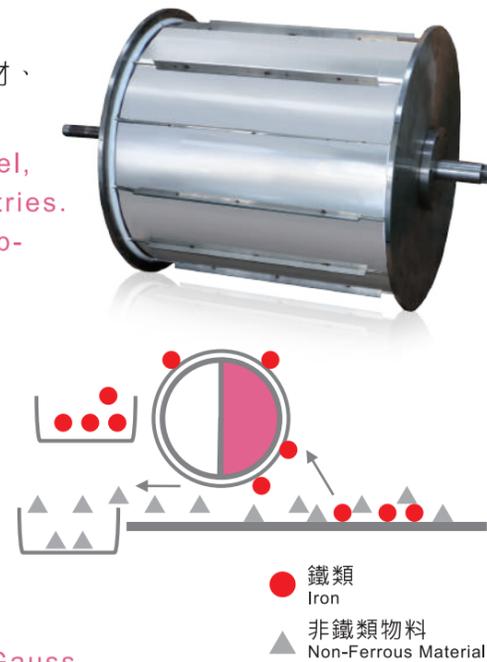
廣泛應用於建築、爐渣、砂石、鋼鐵、煤炭、木材、棧板回收等產業。能有效排除原料中的含鐵物質

Widely used in construction, slag, sand, steel, coal, wood, pallet recycling and other industries. It can effectively exclude iron-containing substances in raw materials

特徵 Features

- ① 本設備使用的是永久磁鐵，不需任何電源
- ② 最高磁力可達8000高斯
- ③ 規格、尺寸、磁力可依客戶需求客製化
- ④ 能夠連續排放吸附的鐵粉
- ⑤ 耐熱高達300度

1. No operating energy is required
2. Highest magnetic force can reach 8,000 Gauss
3. Custom specification ,dimensions and magnetic forces available
4. Continuous separation process
5. Heat resistance up to 300 degrees



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磁滾輪 Magnetic Roller/Magnetic Pulley

用途 Usage

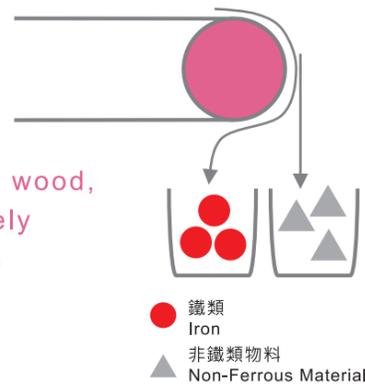
廣泛應用於建築、爐渣、砂石、鋼鐵、煤炭、木材、棧板回收等產業。能有效排除原料中的含鐵物質

Widely used in construction, slag, sand, steel, coal, wood, pallet recycling and other industries. It can effectively exclude iron-containing substances in raw materials

特徵 Features

- ① 本設備使用的是永久磁鐵，不需任何電源
- ② 磁力可達16000高斯
- ③ 規格、尺寸、磁力可依客戶需求客製化
- ④ 能夠連續排放吸附的鐵粉
- ⑤ 可在高溫環境下使用

1. No operating energy is required
2. Highest magnetic force can reach 16,000 Gauss
3. Custom specification ,dimensions and magnetic forces available
4. Continuous separation process
5. Can be used in high temperature environment



國際專利 International Patent

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磁力板 Magnetic Plate

用途 Usage

用途廣泛，可安裝於輸送帶上方或下方或料斗處，也可用於液體中或其他生產線上去除含鐵雜質

Wide range of uses install over or under conveyor or hopper, and other production line for dry or wet condition to remove iron-containing impurities

特徵 Features

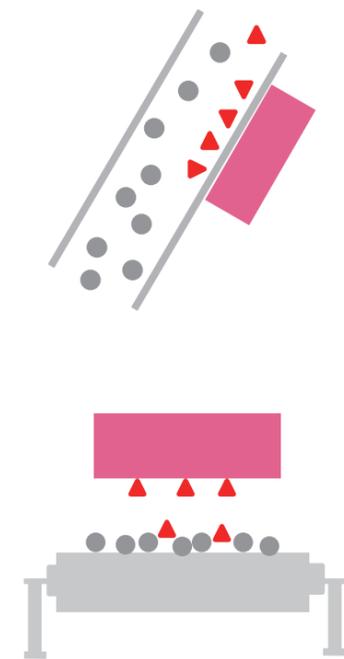
- ① 規格、尺寸、磁力可依客戶需求客製化
- ② 板體可設計法蘭式固定
- ③ 本設備由不銹鋼製成，而且機體完全處於密封狀態。因此也可以放入液體中使用

1. Custom specification ,dimensions and magnetic forces available
2. Custom design for flange and any type of connections available
3. Complete stainless plate shielding therefore can be used in liquid

規格 Specification

- ① 材質SUS304, SUS316
- ② 可設計耐高溫300度

1. Material: SUS304, SUS316
2. Heat resistance up to 300 degree



▲ 鐵類 Iron
● 非鐵類物料 Non-Ferrous Material

用途 Usage

磁環利用磁力的引力原理，在不須齒輪咬合的非接觸狀態下傳動。主要用於液晶顯示器、太陽能、觸摸屏幕、輸送機(低扭力)、真空腔體轉傳機構

Non-Contact Magnetic Transmission Drives is driven by non-contact mode. Mainly used for LCD Panel, Solar, Touch Panel, Conveyor (low torque), vacuum chamber transfer mechanism

特徵 Features

- ① 無噪音
- ② 無磨損，傳動順暢且平穩
- ③ 無須保養：不用因無磨耗問題而更換零件
- ④ 無粉塵：在非接觸狀態下，除了無齒輪的油汙、震動及噪音，也不會因摩擦而產生粉塵，造成製程上的困擾

- 1. Ultra quiet operation
- 2. No wear, steady and smooth drive
- 3. No maintenance required: No need to replace parts from wear problems
- 4. Ultra-low particle generation: In the non-contact state, there is no oil stain, vibration and noise from the gear and it will not generate dust due to friction

磁齒輪配置示例 Gear Configuration Example



垂直型 Perpendicular Type

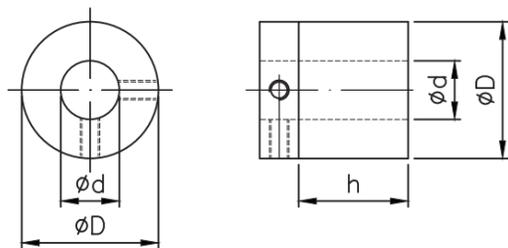
磁齒輪相互以90度排列的狀態傳導磁力
Force is transmitted with Gears arranged at 90°



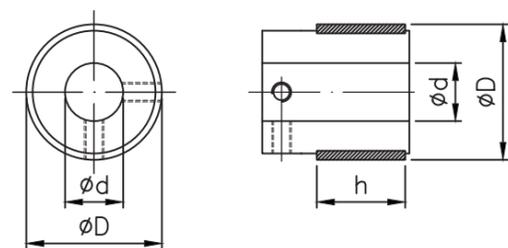
平行型 Parallel Type

磁齒輪相互以平行排列的狀態傳導磁力
Force is transmitted with Gears arranged in parallel

磁齒輪設計圖



ND型: 鈹燒結磁鐵
ND Type: Sintered Magnet



MQ型: 鈹黏結磁鐵
MQ Type: Neodymium Bonded Magnet



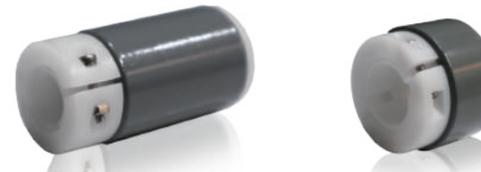
ND型：鈹燒結磁鐵 ND Type: Sintered Magnet

類型 Type	組合類別 Combined Type	M 材質 Material		S 表面處理 Surface Treatment	
		①磁鐵部分 Magnet Section	②支撐座部分 Holder Section	①磁鐵部分 Magnet Section	②支撐座部分 Holder Section
ND型 ND Type	垂直型 Perpendicular Type	鈹燒結磁鐵 Sintered Magnet	A5056 Aluminum Alloy	防溢氣處理 Out-gassing Prevention Treatment	—
	平行型 Parallel Type				

* 最高轉速 1500 rpm

ND 系列 Series

型號 Model	外徑 Outer Diameter ϕD	軸心 Axial ϕd +0.15 +0.05	磁鐵高度 Magnet Height h (mm)	磁極數 No. of Poles (P)
ND21	21	10	25	6
			30	
ND26	26	12	14.1	20
			15	
ND35	35	15	15	8
			21.5	
			15	
			21.5	
ND42	42	15	21	12
			20	



MQ型：鈹黏結磁鐵 MQ Type: Neodymium Bonded Magnet

類型 Type	組合類別 Combined Type	M 材質 Material		S 表面處理 Surface Treatment	
		①磁鐵部分 Magnet Section	②支撐座部分 Holder Section	①磁鐵部分 Magnet Section	②支撐座部分 Holder Section
MQ型 MQ Type	垂直型 Perpendicular Type	鈹黏結磁鐵 Neodymium Bonded Magnet	工程塑膠(POM) Polyacetal (D16: 5056 Aluminum Alloy)	電鍍塗裝 Electrostatic Paint	—
	平行型 Parallel Type				

* 最高轉速 1500 rpm

MQ 系列 Series

型號 Model	外徑 Outer Diameter ϕD	軸心 Axial ϕd +0.15 +0.05	磁鐵高度 Magnet Height h (mm)	磁極數 No. of Poles (P)
MQ21	21	10	15	6
			20	
			30	
MQ26	26	15	14	8
MQ32	32	15	20	8
			20	
MQ35	35	15	21.5	8
			20	
MQ42	42	15	21	12
			20	

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針筒式磁力棒 Hand-Held Magnetic Stick

用途 Usage

簡單的吸附散落一地的鐵片、螺絲或細縫處等雙手不易處理之鐵屑或可吸附之物質

Easily attract small parts, screws, nails, or iron filings or magnetizable materials that are difficult to pick up by hands

特徵 Features

- ① 可依客戶需求設計
- ② 磁棒材質為SUS304
- ③ 輕巧方便，利於清除鐵屑

1. Custom design available
2. Durable SUS304 material
3. Light weight and easily discharge iron filings

國際專利 International Patent



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磁鐵車 Magnetic Sweeper

用途 Usage

用於工廠、工地等地方，快速省力連續回收散亂的鐵片、鐵粉等吸附之物質

Used in factories and construction sites, saving labor and quickly pick up iron and power or magnetizable materials with strong magnetic force

特徵 Features

- ① 本產品是永久磁鐵，不需任何電源
- ② 車身為SUS304不鏽鋼結構
- ③ 可依客戶需求設計

1. No operating energy is required
2. Material SUS304 stainless steel
3. Custom design available



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Kanetec 高斯計 Kanetec Gauss Meter

用途 Usage

- ① 機械零件加工後，殘留磁氣測定
- ② 磁性應用製品，磁場強度測定。
- ③ 不銹鋼材料加工應力後，磁棒殘留磁氣之測定。
- ④ 磁性材料之磁力測定。
- ⑤ 各種鋼材自然帶磁之測定。
- ⑥ 大小家電產品，馬達磁場強度測定。
- ⑦ 永久磁鐵磁場強度測定。
- ⑧ 超傳導磁石的洩漏磁場檢測。

1. After the mechanical parts are processed, the residual magnetic gas can be measured
2. Magnetic applications, magnetic field strength measurement
3. Determination of residual magnetic gas of tube magnetic after processing stress of stainless steel material
4. Magnetic measurement of magnetic materials
5. Various steels are measured with magnetic properties
6. Home appliances, motor magnetic field strength measurement
7. Permanent magnet magnetic field strength measurement
8. Leakage magnetic field detection of superconducting magnet

特徵 Features

日本製造，品質保證

Made in Japan, quality assurance



渦電流分選機
Eddy Current Separator

永磁吊式磁選機
Suspended Permanent Magnetic Separator

永磁氣壓式磁選機
Pneumatic Magnetic Separator

永磁立式磁選機
Vertical Magnetic Separator

永磁平面輸送式磁選機
Belt Conveyor Magnetic Separator

永磁刮板式磁選機
Scraper-Type Magnetic Separator

永磁濕式磁選機
Wet-Type Magnetic Separator

鐵罐分選機
Can Sorting Machine

震動過篩機
Vibratory Screener

螺旋過篩機
Spiral Screener

組合式機械
Combined Machinery

金屬探測器
Metal Detector

磁力棒
Tube Magnetic

磁力架
Grate Magnet

磁棒箱
Magnetic Box

管路式過濾器
Magnetic Strainer

磁鼓
Magnetic Drum

磁滾輪
Magnetic Roller/
Magnetic Pulley

磁力板
Magnetic Plate

非接觸式傳動軸
Non-Contact
Magnetic Transmission Drives

磁力相關產品
Magnet Related Products