● Dry PM Separator

Product Image



Application Scope

It can be used for pre-selection of ferrous metal ores, recovery of surrounding rocks or waste rocks, separation of steel slag, and separation of materials such as building materials, non-ferrous metal ores and non-metallic ores to remove magnetic impurities.

Main Features

Drum diameter: 500~1600mm
Drum length: 500~3200mm Sorting granularity: 0~400mm
Capacity: 0~3000t/h(Pre-selection), 0~5000t/h(Recovery of surrounding rock)

● Fine Ore Dry PM Separator

Product Image


Application Scope

Especially applicable for pre-concentration of powder ore after fine crushing or high-pressure roller grinding such as magnetite and pyrrhotite, and removal of iron impurities from building materials, steel slag, and non-metallic minerals etc.

Main Features

Drum diameter: 1000~1200mm
Drum length: 500~3200mm
Sorting granularity: 0~20mm
Capacity: 0~600t/h

● YYMT (S/N) Series PM Separator

Product Image

Application Scope

Applicable mainly for wet separation of magnetite, pyrrhotite, roasted iron ore, titanomagnetite, etc.

Main Features

▶ Magnetic system consists of high-quality strontium ferrite and NdFeB rare earth magnets.
▶ The average magnetic field intensity on drum surface varies from 100 to 700mT.
▶ Concurrent, counter-current or counter-rotation tank configuration is available as required.
▶ Alternative multi-step tandem configuration saves site area and simplifies process.
▶ Stable separation, larg e processing capacity, easy to operate and maintain.
▶ The drum diameter has Φ1050, Φ1200, Φ1500mm, drum length has 1500, 1800, 2000, 2400, 3000, 3500, 4000, 450 0and 5000mm.

● Iron Removal-Magnetic Arc for Milling Operation

Product Image

Application Scope

Applicable for removing the grinding fragments directly from the mill discharge, which would cause wear to the downstream process-sing equipment such as pump, hydro cyclones and pebble crusher.

Main Features

▶ Proper magnetic circuit design: process simulations by advanced simulation software to design the magnetic fields around the lifting drum for capturing the fragments.
▶ High energy rare-earth permanent magnets NdFeB have been used in the magnetic circuit to increase magnetic force. And the magnetic system is stable and permanent without need of magnetization.
▶ Reasonable design of the lifting drum: bolted connection with the mill, flange type connection form, convenient onsite installation.
▶ Spray type water discharge mode to avoid ore loss caused by the rotating lifting drum.

● Thickening PM Separator

Product Image

Introduction

The separators were applied in separation and concentration before secondary grinding or filtration or in magnetic products concentration.

Main Features

Special tank for thickening.
Concentration density can be reach 65~75%.
The drum diameter has Φ1050, Φ1200, Φ1500mm, drum length has 1500, 1800, 2000, 2400, 3000, 3500, 4000, 4500 and 5000mm.

● Wet Pre-concentration PM Separator

Product Image

Application Scope

YYMT series separators are specially designed for pre-concentration after fine-crushing and before grinding, roughing after primary grinding, cleaning after secondary grinding and primary separation, and re-cleaning tailings.

Main Features

High slurry liquid level
Large magnetic separation angle
Specially designed concurrent tank
Specially designed feeding hopper
Multiple channels for tailing current
The drum diameter has Φ1050, Φ1200, Φ1500mm, drum length has 1500, 1800, 2000, 2400, 3000, 3500, 4000, 4500 and 5000mm.

● Multi-pole PM Drum Separator

Product Image

Application Scope

Applicable mainly for Cleaner of magnetite, pyrrhotite, roasted iron ore, titanomagnetite, etc.

Main Features

High slurry liquid level
Large magnetic separation angle
Small pole pitch and multi-poles

●Tailing Recovery PM Separator

Product Image

Introduction

The equipment can be used for tailing reclaiming, which adopts co-current tank with high pulp level, special channel for discharging coarse particles, design of anti-overflow and controllable liquid level, with the features of big magnetic system angle and long separation zone. The equipment has been widely applied in many companies.

Application

The equipment is applicable for tailing reclaiming.

Main Features

Co-current tank with high pulp level
Special channel for discharging coarse particles
Design of anti-overflow groove and controllable liquid level
Big magnetic system angle and long separation zone
Multiple tailing passage way

● Heavy Media Recovery PM Separator

Product Image

Application Scope

Applicable for heavy medium recovery.

Main Features

①. Reasonable magnetic circuit contributes to the maximum recovery of fine magnetic materials.
②. High liquid level separating tank.
③. Single or double drum are available.
④. Non stop lubrication can be realized.

● High Intensity Eletromagnetic Induced Roller Separator

Product Image



Introduction

The equipment is suitable for iron removal and purification of non-metal minerals, such as high purity quartz sand, kyanite, sillimanite, andalusite, potassium feldspar, zirconite, etc. The magnetic field intensity can reach more than 2T with reasonable distribution to achieve better separation effect. The configuration of equipment has options of single-roller, double-roller and four-roller, and the multi-roller magnetic separator can continuously complete the roughing, cleaning or scavenging separation of the mineral on one equipment so as to simplify the process.

Application

Applicable for iron removal and purification of non-metal mineral and recovery of weak magnetic mineral.

Main Features

High magnetic field intensity of more than 2T
The configuration of equipment has options of single-roller, double-roller and four-roller
Adjustable rotating speed of induced roller

● High Intensity PM Roll Separator

Product Image

Application Scope

①. Suitable for de-ironing refinement of non-magnetic minerals，sunch as quartz sand, kyanite and abrasive etc.
②. Also suitable for recovering weak magnetic metallic minerals, such as manganese ore, cobalt ore and hematite and etc.

Main Features

①. High magnetic intensity, up to about 14000GS.
②. Processing coarse material by dry separation.
③. Two separate processes can be continuously completed in one equipment.
④. Double-channel feeding increases the single-machine processing capacity.

● Drum Auto-discharging PM Separators

Product Image

Application Scope

Suitable for removing iron from quartz sand and other nonmagnetic minerals. Also suitable for Recovering weak magnetic minerals.

Main Features

①. High magnetic intensity and large magnetic field depth.
②. The discharging roller can remove the iron completely.
③. Saving a lot of flushing water.

● Dry High Intensity Magnetic Separator

Product Image

Introduction

The magnetic field intensity on the drum surface can reach 1.1T. The equipment is mainly used for pre-concentration for the weak magnetic ore such as hematite, limonite, ilmenite, specularite, manganese ore with the maximum separation size of 50mm, and also for the iron removal from various kinds of non-metal ore, metallurgical slag, ceramic, solid waste and other material. The equipment has the features of big processing capacity and adjustable drum rotating speed and can satisfy separation requirements of different size of minerals.

Application

Applicable for pre-concentration for the weak magnetic ore and also for the iron removal of various kinds of non-metal ore, metallurgical slag, ceramic, solid waste and other material.

Main Features

High magnetic field intensity and big processing capacity
Wide range of separation particle size
The feeding method is top feeding with no jam, easy maintenance and low operation cost.
Equipment specifications: RTGX0412/0416/0616
Cylinder diameter: 400~600mm
Cylinder length: 1200~1600mm

● Magnetic Seeds Separator

Product Image



Main Features

Drum diameter: 400/600/750/1050mm
Drum length: 600~1800mm
Pulp density: ≤30%
Capacity: 0~120m³/h

● Auto-discharging Tailing Recovery Disc Magnetic Separator

Product Image

Application Scope

The equipment is suitable for non-ferrous metal ore, iron ore, sewage treatment and other fields, and can meet the high-efficiency recovery requirements of magnetic iron in low-concentration, large-volume, and wide-grain tailings.

Main Features

Model:
HLW1000-4/6/8/10,
HLW1200-8/10/12/14,
HLW1500-8/10/12/14

Advantage:
The processing capacity of the equipment is several times that of the conventional cylindrical magnetic separator, and the recovery rate of the magnetic material is 5-10% higher than that of the cylinder. The maximum sorting size is 1mm, the maximum sorting disc diameter is 1500mm, and the maximum number of discs is 14.

● Iron Remover

Product Image

Application Scope

Suitable for removing iron tramp from other materials on the conveyor.

Main Features

① . High efficiency of Removing iron with stable magnetic property.

② Automatic iron discharging and manual iron discharging can be choosed.

Note:
PM means permanent magnet.
All customized designs are acceptable.