粉体磁选设备

Powder Magnetic Separation Equipment

潍坊追日磁电科技有限公司

Weifang Zhuiri Magnetoelectric Technology Co., Ltd

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公司简介

潍坊追日磁电科技有限公司是一家专业从事粉体磁选设备的研制、生产和销售的高新技术企业，成立于2003年8月。二十余年来，公司一直专注于粉体材料除铁提纯技术的研究与装备制造。公司自主研发的“ZR0709系列电磁式粉体除铁设备”，梯度高、磁场强、结构独特，除铁效果显著，广泛应用于锂电、光伏、半导体、高端光学等领域所需要的高纯粉体材料的除铁提纯处理，产品遍布全国并远销美国、加拿大、比利时、韩国、印度、印尼、新西兰等多个国家。

ZR0709系列电磁式粉体除铁设备自投放市场以来，其出色的除铁效果便受到了用户的高度认可，解决了一项重要行业技术难题，从而实现了物理法粉体除铁提纯技术的历史性突破，开创了电磁式粉体除铁提纯技术新时代。该产品早在2011年就通过了省经信委专家鉴定验收，从而奠定了我公司在粉体磁选领域的领导地位。在使用中我们广泛征询用户意见，不断对产品进行迭代升级，相继推出了第二代、第三代、第四代产品，形成了适用于各种粉体材料除铁提纯的多系列、多型号、多款式产品，为上千家用户提供了近万台设备。在使用中我们积累了丰富的经验和技术数据，开发了诸如“电磁除铁器高效冷却系统”、“负压辅助清铁系统”、“周转箱提升给料系统”、“一体式称重磁选机”、“电磁砂浆磁选机”、“气吹防堵自动清理系统”等一系列首创性技术成果；公司自主完成的“电磁式高效粉体磁选机的研发”科技成果于2023年通过山东省科技成果评价，该成果得到与会专家高度评价，整体技术达到国际先进水平；公司拥有6项发明专利和二十余项实用新型专利，成为电磁式粉体除铁提纯技术的领跑者和行业翘楚；该产品是各种高端、高纯粉体材料重要的除铁提纯设备，为我国锂电、光伏、半导体等行业高端粉体材料国产化、维护供应链安全、领跑全球新能源产业发展作出了积极贡献，创造了巨大的经济效益和社会效益。公司通过了ISO9001、ISO14001、ISO45001国际质量、环境、职业健康三体系认证，主要产品获欧盟CE和北美CSA认证。被授予国家级“高新技术企业”、山东省“专精特新企业”、山东省“瞪羚企业”、山东省“优质品牌”、山东省“制造业高端品牌”、“山东省“智能制造优秀场景”、潍坊市“智能工厂”等，拥有山东省“中小企业创新研发中心”、潍坊市“一企一技术研发中心”、潍坊市“工业设计中心”、潍坊市“企业技术中心”等研发平台，为企业研发创新提供了优越条件。

公司始终奉行“质量第一、信誉第一、用户至上”的经营方针，向用户提供优秀的产品和优质的服务。公司始终坚持“把每一台设备都做好，让每一个客户都满意”的经营理念，帮助用户解决问题、助力用户实现价值提升是我们最大的愿望，亦是我们自身价值的体现。

Company Profile

Weifang Zhuiri Magnetoelectric Technology Co., Ltd., a national high-tech enterprise specialized in the R&D, production and sales of powder magnetic separation equipment, was founded in August 2003. For more than two decades, the company has Peen committed to the research of iron removal and purification technology for powder materials and the manufacturing of relevant equipment. Independently developed by our company, the

ZR0709 Series Electromagnetic Powder Iron Removal Equipment features high magnetic gradient, strong magnetic field, unique structure and remarkable iron removal effect. It is widely applied to the iron removal and purification of high-purity powder materials required in lithium battery, photovoltaic, semiconductor, high-end optics and other fields. Our products are sold across China and exported to many countries including the United States, Canada, Belgium, South Korea, India, Indonesia and New Zealand.

Since its market launch, the ZR0709 Series Electromagnetic Powder Iron Removal Equipment has been highly recognized by users for its outstanding iron removal effect. It has overcome a critical industrial technical challenge, marking a historic breakthrough in physical powder iron removal and purification and ushering in a new era for the electromagnetic technology. As early as 2011, this product passed the expert evaluation and acceptance conducted by the Shandong Provincial Economic and Information Technology Commission, cementing the company's leading position in the powder magnetic separation industry. By extensively soliciting user feedback in practical application and continuously upgrading the product, we have successively launched the 2nd, 3rd and 4th generation products, forming a full range of products with multiple series, models and styles suitable for the iron removal and purification of various powder materials. We have provided nearly 10,000 sets of equipment for more than 1,000 users. Through long-term practical application, we have accumulated extensive industry experience and solid technical data, and developed a host of pioneering technological achievements, including: High-Efficiency Cooling System for Electromagnetic Iron Removers, Negative Pressure Assisted Iron Cleaning System,Tote Box Lifting and Feeding System, Integrated Weighing Magnetic Separator, Electromagnetic Mortar Magnetic Separator and Air Blowing Anti-Blocking Automatic Cleaning System. In 2023, the company' s independently developed High-efficiency Electromagnetic Powder Magnetic Separator passed the scientific and technological achievement appraisal in Shandong Province. The achievement was highly praised by the participating experts, with its overall technology reaching the international advanced level. Boasting 6 invention patents and more than 20 utility model patents, the company has become a pacesetter and an industry leader in the field of electromagnetic powder iron removal and purification technology. As an essential iron removal and purification equipment for various high-end and high-purity powder materials, our products have made positive contributions to the localization of high-end powder materials in China's lithium battery, photovoltaic, semiconductor and other industries, the maintenance of supply chain security, and the leading development of the global new energy industry, creating enormous economic and social benefits.

The company has obtained the international certifications of ISO9001 Quality Management System, ISO14001 Environmental Management System and ISO45001 Occupational Health and Safety Management System, and the main products have been certified with EU CE and North American CSA standards. It has been awarded the titles of National High-tech Enterprise, Shandong Provincial "Specialized, Sophisticated, Unique and Novel" Enterprise, Shandong Provincial Gazelle Enterprise, Shandong Provincial High-quality Brand, Shandong Provincial High-end Manufacturing Brand, Shandong Provincial Excellent Scenario of Intelligent Manufacturing and Weifang Intelligent Factory, etc. The company also owns a number of R&D platforms including Shandong Provincial SME Innovation R&D Center, Weifang One Enterprise One Technology R&D Center, Weifang Industrial Design Center and Weifang Enterprise Technology Center, which provide superior conditions for the company's R&D and innovation.

The company has always adhered to the business principle of "Quality First, Reputation First, Customer Supreme", committing to providing customers with premium products and professional services. Upholding the business philosophy of "Manufacture Every Equipment Perfectly, Satisfy Every Customer Wholeheartedly", it is our greatest aspiration to help customers solve practical production challenges and boost their value enhancement, which also embodies the core value of our company.

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Corporate Showcase



公司总览



办公楼



化验室



成品区



展厅



实验室一角



智能激光切管机



智能激光切割机

资质荣誉
Qualifications and Honors































三体系认证
Triple System Certification



CE认证证书
CE certification certificate



“ZR0709 系列电磁粉体除铁设备”项目鉴定会
Appraisal Meeting for the "ZR0709 Series Electromagnetic Powder Iron Removal Equipment" Project



专利证书
Patent Certificate



ZR0709-2-T系列干法电磁式粉体除铁器

ZR0709-2-T Dry Powder Electromagnetic Separator



ZR0709-T 型电磁式粉体除铁器主机

ZR0709-T Model
Dry Powder Electromagnetic Separator



自控型电控柜

Automatic Control Electrical Cabinet





条形网片

Bar-type Mesh Sheet



“△”型网片

Delta-Type Mesh Sheet



菱形网片

Diamond Mesh Sheet

概述：

随着国内外材料领域对粉体材料纯度指标要求的不断提高，粉体物料的除铁提纯处理成为这些行业亟待解决的问题。由于粉体物料的特殊性，诸多除铁设备的除铁效果一直不理想，且清理麻烦，不能满足企业的要求。我公司经过多年的探索研究，在借鉴国外先进技术的基础上，结合国内企业对除铁设备的使用要求，研制成功了高性价比的ZR0709-2系列干法电磁式粉体除铁器。该机设计独特，梯度高、磁场强，磁场强度高达1.8~2.1万高斯，吸力强大，捕捉力强，不仅可以将粉体加工过程中混入的机械铁等磁性物基本除净，而且一般除铁设备难以去除的原矿中氧化铁（Fe203）及其它弱磁性杂质也能够除去大部分，除铁效果显著。该机清铁方便，只需十几秒钟即可完成排铁；该机既可单台使用，也可多台串联或并联组合使用，以达到进一步提高除铁效果、提高处理能力的目的。对于欲提高产品品质、提升产品附加值的企业，提供了一个可行方案。

Overview:

With the continuous growth in purity requirements for powder materials in both domestic and international material sectors, the iron removal and purification of powder materials have become an urgent issue for these industries. Due to the unique nature of powder materials, the iron removal performance of many devices has been unsatisfactory, and their cleaning processes are cumbersome, failing to meet the demands of manufacturers. Following years of research and development, and by leveraging advanced foreign technologies while incorporating the operational requirements of domestic enterprises, our company has successfully developed the high-cost-performance ZR0709-2 series dry electromagnetic powder iron separator.

This equipment features a unique design with high gradient and strong magnetic field, achieving a magnetic field intensity of up to 18,000–21,000 Gauss. With its powerful magnetic force and strong capture capability, it not only effectively removes mechanical iron and other magnetic contaminants introduced during the powder processing but also eliminates most of the ferric oxide (Fe_2O_3) and other weakly magnetic impurities found in raw ores—impurities that conventional iron removal equipment struggles to handle. The iron removal efficiency is remarkable.

The equipment enables convenient iron cleaning with iron discharge completed in just a dozen seconds. It can be used either as a single unit or in a series/parallel combination of multiple units to further enhance the iron removal effect and processing capacity, providing a feasible solution for enterprises aiming to improve product quality and increase product added value.

性能特点：

1.设计独特，工作腔内介质网片磁感应强度高达1.8~2.1万高斯，采用蜂窝状导磁介质作为磁性物载体，除铁效果显著，性价比高；

2.清铁方便快捷，只需十几秒钟即可完成一次排铁；

3.采用强迫油循环水冷却方式，冷却效果理想；

4.工作过程中磁腔处于振动状态，确保过料通畅；

5.采取减振降噪等措施，确保设备运行平稳、噪音低；

6.具有温度实时监测与自动控制功能，当油温升高到设定数值时，系统会自动报警直至停机，从而保证了设备的安全运行；

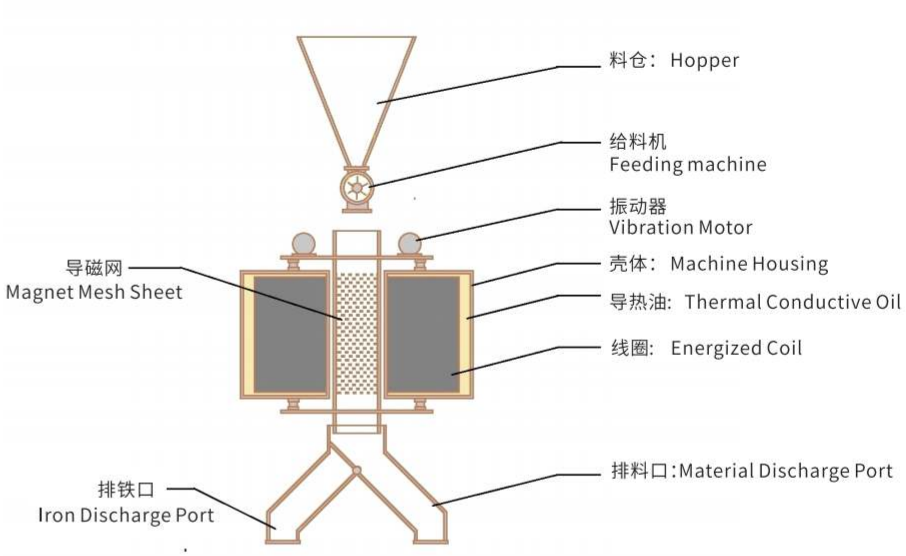
7.全自动型采用PLC智能控制和人机界面，自动完成励磁、给料、排铁等全部动作，不需人工操作，降低企业运营成本，有效的避免了影响除铁效果的人为因素。彩色触摸屏设置参数、触摸按钮操作并显示工作状态，并配有手动操作面板，技术先进并具人性化。

Performance Features

1. Unique design: with the magnetic induction intensity of the medium mesh sheet in the magnetic chamber reaching up to 18,000~21,000 Gauss; adopting honeycomb magnetic conductive medium as the carrier for magnetic substances, it delivers a remarkable iron removal effect and high cost performance.
2. Convenient and Rapid Iron Cleaning: The iron discharge process can be completed in just a dozen seconds.
3. Forced Oil Circulation Water Cooling: The system employs a forced oil circulation water cooling method, delivering ideal cooling performance.
4. Vibrating Magnetic Chamber: The magnetic chamber is in a vibrating state during operation。Ensuring smooth material flow.
5. Vibration and Noise Reduction: Measures such as vibration damping and noise reduction are adopted to ensure stable operation with low noise levels.
6. Real-Time Temperature Monitoring and Automatic Control: When the oil temperature rises to a preset value, the system automatically triggers an alarm and shuts down if necessary, ensuring safe equipment operation.
7. Fully Automatic Model with PLC Control system and HMI: The fully automatic model is equipped with PLC intelligent control system and HMI, automatically completing all operations including excitation, feeding, and iron discharge without the need for manual intervention. This reduces operational costs and effectively eliminates human factors that may affect iron removal performance. Parameters are set via a color touchscreen, with touch-button operation and real-time status display. A manual control panel is also provided, reflecting advanced technology and user-friendly design.

■ 除铁器结构简图：

Structural diagram for Zr0709



■ 除铁器工作原理：

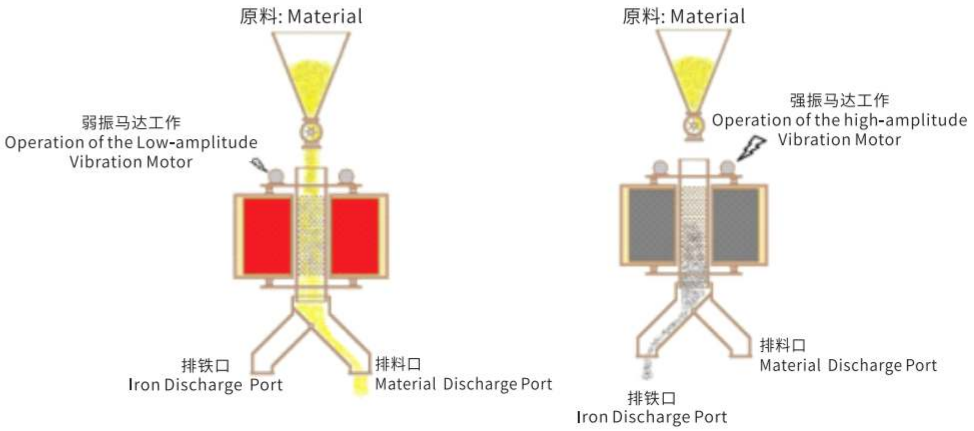
线圈通电产生磁场，磁场通过导磁回路在磁腔中形成高密度磁场，磁腔中的导磁网被磁化而产生强磁场，粉体物料通过导磁网组的过程中，其中的磁性物杂质被吸附在导磁网片上，非磁性的物料通过排料口排出；清铁时线圈断电失磁，导磁网亦同时失磁，磁性物杂质失去吸力，在重力及振动力作用下通过排铁口排出。

The working principle of the Electromagnetic Iron separator

When the coil is energized, a magnetic field is generated, which forms a high-density magnetic field in the magnetic chamber through the magnetic conductive circuit. The magnetic conductive mesh inside the magnetic cavity is magnetized to produce a strong magnetic field. As the powder material passes through the magnetic conductive mesh assembly, magnetic impurities in the material are adsorbed onto the magnetic conductive mesh sheets, while non-magnetic materials are discharged through the discharge port. During iron cleaning, the coil is de-energized for demagnetization, and the magnetic conductive mesh loses its magnetism synchronously. Deprived of suction, the magnetic impurities are discharged through the iron discharge port under the combined action of gravity and vibration force.

■ 除铁器工作原理图解：

The schematic diagram of iron separator working principle:



主要技术参数：

The main technical parameters:

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	有芯磁场 Cored Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	生产能力 (参考值) Production capacity (t/h)	适应物料 Applicable materials	主机重量 Main Unit Weight (kg)
ZR0709-2-16T250	160	250	≥1600	AC380V/50Hz/三相四线 AC380V/50Hz/ Three phase and Four wire	≤6.0	0.2~0.4	a.8目以细粉或颗粒；b.非磁性；c.干燥；d.含铁量≤1%。 a. Powders or granules finer than 8 mesh b. Non-magnetic c. Dry d. Iron content ≤ 1%	690
ZR0709-2-16T300		300	≥1700		≤8.4			830
ZR0709-2-16T350		350	≥1800		≤10.8			910
ZR0709-2-20T250	200	250	≥1600		≤7.2	0.3~0.6		820
ZR0709-2-20T300		300	≥1700		≤9.6			945
ZR0709-2-20T350		350	≥1800		≤12.9			1125
ZR0709-2-25T250	250	250	≥1600		≤8.1	0.5~1.0		910
ZR0709-2-25T300		300	≥1700		≤12.6			1150
ZR0709-2-25T350		350	≥1800		≤15.6			1490
ZR0709-2-30T250	300	250	≥1600		≤9.0	0.8~2.0		1260
ZR0709-2-30T300		300	≥1700		≤12.6			1650
ZR0709-2-30T350		350	≥1800		≤18.0			1765
ZR0709-2-35T250	350	250	≥1600		≤12.0	1.5~3.0		1640
ZR0709-2-35T300		300	≥1700		≤16.2			1940
ZR0709-2-35T350		350	≥1800		≤21.0			2125
ZR0709-2-40T250	400	250	≥1600		≤14.1	2.5~6.0		1760
ZR0709-2-40T300		300	≥1700		≤18.6			2160
ZR0709-2-40T350		350	≥1800		≤23.7			2435
ZR0709-2-45T250	450	250	≥1600		≤16.5	4.0~8.0		2390
ZR0709-2-45T300		300	≥1700		≤21.3			2700
ZR0709-2-45T350		350	≥1800		≤27.0			2950

注：系统配套附件可根据用户要求定制。

Note: The system supporting accessories can be customized according to user' requirements.

ZR0709-2-G系列高纯度干法粉体电磁选机

ZR0709-2-G Series High Purity Dry Powder Electromagnetic Separator

■ 概述：

ZR0709-2-G型高纯度粉体除铁器是我公司科研人员根据高纯石英砂除铁提纯要求，在电磁式粉体除铁器基本原理基础上，通过有限元电磁场数值分析软件进行全面的三维有限元计算和分析，全面优化线圈结构和磁路结构，通过加大线圈安匝、加强散热能力等技术措施，获得磁通密度更高、磁场梯度更大、空间分布更均匀的磁场；同时合理加长磁腔长度、增加磁选过程，对设备细节精细处理，尽可能地减少影响除铁效果的不利因素，从而获得更为理想的除铁效果。

Overview:

The ZR0709-2-G high-purity dry powder electromagnetic iron separator is developed by our R&D team to meet the iron removal and purification requirements of high-purity quartz sand. Based on the fundamental principles of electromagnetic powder iron separators, the product is engineered through comprehensive 3D finite element calculation and analysis via finite element electromagnetic field numerical analysis software, achieving full optimization of the coil structure and magnetic circuit structure. By adopting technical measures such as increasing the coil ampere-turns and enhancing heat dissipation capacity, a magnetic field with higher magnetic flux density, greater magnetic field gradient and more uniform spatial distribution is achieved. Meanwhile, the magnetic chamber length is reasonably extended, the magnetic separation process is optimized, and meticulous refinements are made to equipment details to minimize factors that may compromise iron removal efficiency, thereby delivering superior iron removal performance.

■ 性能特点：

1.设计独特，采用蜂窝状强导磁介质作为磁性物载体，磁场强、梯度高、除铁效果显著，性价比高；

2.清铁方便快捷，只需十几秒钟即可完成一次排铁；

3.采用强迫油循环水冷却方式，冷却效果理想；

4.工作过程中磁腔处于振动状态，确保过料通畅；

5.磁场线性可调，用户可根据不同的磁选要求和不同的冷却条件灵活调整；

6.具有油温实时监测与自动控制功能，当油温升高到设定数值时，系统会自动报警直至停机，从而保证了设备的安全运行；

7.全自动型采用PLC智能控制，配备给料系统即可自动完成励磁、给料、排铁等全部动作。彩色触摸屏设置参数、触摸按钮操作并显示工作状态，技术先进并具人性化。

8.彻底分离磁性物杂质与基本物料：排料阀的独特设计和精细处理，完全杜绝分离出的磁性物杂质进入基本物料，基本物料也不会进入杂质箱中。

Performance Features:

1. Unique design: with the magnetic induction intensity of the medium mesh sheet in the working chamber reaching up to 18,000~21,000 Gauss; adopting honeycomb magnetic conductive medium as the carrier for magnetic substances, it delivers a remarkable iron removal effect and high cost performance.

2. Convenient and Rapid Iron Cleaning: The iron discharge process can be completed in just a dozen seconds.

3. Forced Oil Circulation Water Cooling: The system employs a forced oil circulation water cooling method, delivering ideal cooling performance.

4. Vibrating Magnetic Chamber: The magnetic cavity is in a vibrating state during operation。Ensuring smooth material flow.

5. Linearly Adjustable Magnetic Field: The magnetic field intensity is linearly adjustable, allowing users to make flexible adjustments according to different magnetic separation requirements and various cooling conditions.

6. Real-Time Temperature Monitoring and Automatic Control: When the oil temperature rises to a preset value, the system automatically triggers an alarm and shuts down if necessary, ensuring safe equipment operation.

7. Fully Automatic Model with PLC Control and HMI: The fully automatic model is equipped with PLC intelligent control and HMI, automatically completing all operations including excitation, feeding, and iron discharge without the need for manual intervention. This reduces operational costs and effectively eliminates human factors that may affect iron removal performance. Parameters are set via a color touchscreen, with touch-button operation and real-time status display. A manual control panel is also provided, reflecting advanced technology and user-friendly design.

8. Complete separation of magnetic impurities from base material: The unique design and meticulous treatment of the discharge valve completely prevent separated magnetic impurities from entering the base material, while also ensuring that the base material does not enter the impurity container.

主要技术参数：
The main technical parameters:

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	有芯磁场 Cored Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	生产能力 (参考值) Production capacity (t/h)	适应物料 Applicable materials	主机重量 Main Unit Weight (kg)
ZR0709-2-16G400	160	400	≥2000	AC380V/50HZ /三相四线 Three-phase four-wire	≤13.2	0.2-0.4	a.8-120目粉或颗粒；b.非磁性；c.干燥；d.含铁量≤1% a. Powders or granules finer than 8 mesh b. Non-magnetic c. Dry d. Iron content≤1%	1100
ZR0709-2-16G450		450			≤16.2			1310
ZR0709-2-16G500		500			≤19.5			1700
ZR0709-2-16G550		550			≤22.8			2050
ZR0709-2-16G600		600			≤26.1			2100
ZR0709-2-16G650		650			≤29.4			2400
ZR0709-2-16G700		700			≤32.0			2850
ZR0709-2-20G400	200	400			≤16.5	0.3-0.6		1400
ZR0709-2-20G450		450			≤20.7			1750
ZR0709-2-20G500		500			≤24.9			2100
ZR0709-2-20G550		550			≤29.4			2350
ZR0709-2-20G600		600			≤33.1			2950
ZR0709-2-20G650		650			≤38.9			3300
ZR0709-2-20G700		700			≤44.7			3700
ZR0709-2-25G400	250	400			≤18.6	0.5-1.0		1730
ZR0709-2-25G450		450			≤22.5			2100
ZR0709-2-25G500		500			≤27.0			2395
ZR0709-2-25G550		550			≤30.7			2800
ZR0709-2-25G600		600			≤36.0			3150
ZR0709-2-25G650		650			≤42.0			3750
ZR0709-2-25G700		700			≤49.8			4580
ZR0709-2-30G400	300	400			≤22.2	0.8-2.0		2135
ZR0709-2-30G450		450			≤25.2			2440
ZR0709-2-30G500		500			≤29.0			2890
ZR0709-2-30G550		550			≤34.8			3100
ZR0709-2-30G600		600			≤40.6			3350
ZR0709-2-30G650		650			≤46.4			3870
ZR0709-2-30G700		700			≤52.2			4385

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	有芯磁场 Cored Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	生产能力 (参考值) Production capacity (t/h)	适应物料 Applicable materials	主机重量 Main Unit Weight (kg)
ZR0709-2-35G400	350	400	≥2000	AC380V/50HZ /三相四线 Three-phase four-wire	≤26.4	1.5-3.0	a.8-120目粉或颗粒；b.非磁性；c.干燥；d.含铁量≤1% a. Powders or granules finer than 8 mesh b. Non-magnetic c. Dry d. Iron content≤1%	2730
ZR0709-2-35G450		450			≤31.0			3250
ZR0709-2-35G500		500			≤37.4			3880
ZR0709-2-35G550		550			≤44.4			4560
ZR0709-2-35G600		600			≤51.6			5335
ZR0709-2-35G650		650			≤56.1			5850
ZR0709-2-35G700		700			≤63.3			6550
ZR0709-2-40G400	400	400			≤29.4	2.5-5.0		3085
ZR0709-2-40G450		450			≤34.8			3650
ZR0709-2-40G500		500			≤41.8			4490
ZR0709-2-40G550		550			≤49.3			5470
ZR0709-2-40G600		600			≤55.0			6600
ZR0709-2-40G650		650			≤64.4			7670
ZR0709-2-40G700		700			≤74.3			8870
ZR0709-2-45G400	450	400			≤33.0	4.0-8.0		3730
ZR0709-2-45G450		450			≤40.6			4380
ZR0709-2-45G500		500			≤49.3			5170
ZR0709-2-45G550		550			≤55.0			5970
ZR0709-2-45G600		600			≤64.4			6900
ZR0709-2-45G650		650			≤74.3			8020
ZR0709-2-45G700		700			≤85.3			9240

注：系统配套附件可根据用户要求定制。
Note: The system supporting accessories can be customized according to user’ requirements.

ZR0709-3-H系列干法粉体电磁分离机

ZR0709-3-H series Dry Powder Electromagnetic Separator





自控型电控柜

Manual electric control cabinet

概述：

ZR0709-3-H系列电磁式粉体除铁器是基于ZR0709-2-G系列电磁式粉体除铁器原理及成熟技术，借鉴美国、日本、韩国同类设备优点，通过有限元电磁场数值分析软件进行全面的三维有限元计算和分析，全面优化线圈结构和磁路结构，在线圈材质、配件品牌等全方位升级设备配置，设计而成的一款具有国际一流水平的电磁式粉体除铁设备。该设备与美国、日本、韩国同类设备相比，磁力更强、性能更优，各项性能指标均达到或超过同类进口设备。

Overview:

The ZR0709-3-H series electromagnetic powder iron remover is built upon the principles and proven technology of the ZR0709-2-G series. By incorporating the advantages of similar equipment from the United States, Japan, and South Korea, and utilizing finite element electromagnetic field numerical simulation software for comprehensive 3D finite element calculation and analysis, the coil structure and magnetic circuit configuration have been fully optimized. With comprehensive upgrades in coil materials, component brands, and other aspects, this unit has been designed as a world-class electromagnetic powder iron remover. Compared to similar equipment from the United States, Japan, and South Korea, it offers stronger magnetic force, superior performance, and all technical specifications meet or exceed those of comparable imported units.

性能特点：

1. 技术先进：借鉴美国、日本、韩国同类设备优点，全面升级和改进，磁力更强，性能更优，各项性能指标均达到或超过同类进口设备。

2. 纯铜线圈，电气原件选用国际一线品牌，全方位升级设备配置，细节加工精细，设备整体美观、高端大气。

3. 功率低、体积小、磁场强、性能优越、除铁效率高，高标准的设计理念和高磁力性能，使得该设备具有极佳的除铁效率，为高纯物料严格的纯度要求提供保障。

4. 磁场线性可调，用户可根据不同的磁选要求和不同的冷却条件灵活调整；

5. 彻底分离磁性物杂质与基本物料：排料阀的独特设计和精细处理，完全杜绝分离出的磁性物杂质进入成品物料，成品物料也不会进入杂质箱中。

Performance Features:

1. Advanced Technology: By incorporating the advantages of similar equipment from the United States, Japan, and South Korea, and implementing comprehensive upgrades and improvements, it delivers stronger magnetic force, superior performance, and all technical specifications meet or exceed those of comparable imported units.
2. High-Quality Components: Featuring a pure copper coil and internationally leading brands for electrical components, the equipment represents a comprehensive upgrade in configuration. With meticulous attention to detail in processing, the unit is aesthetically pleasing, elegant, and exudes a high-end quality.
3. Low Power Consumption, Compact Size, High Magnetic Field Strength, Superior Performance, and High Iron Removal Efficiency: Designed to high standards with strong magnetic field performance, this equipment achieves exceptional iron removal efficiency, ensuring the stringent purity requirements for high-purity materials.
4. Linearly Adjustable Magnetic Field: The magnetic field intensity is linearly adjustable, allowing users to make flexible adjustments according to different magnetic separation requirements and various cooling conditions.
5.Complete separation of magnetic impurities from base material: The unique design and meticulous treatment of the discharge valve completely prevent separated magnetic impurities from entering the base material, while also ensuring that the base material does not enter the impurity container.

主要技术参数：

The main technical parameters:

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	主机重量 Main Unit Weight (kg)
ZR0709-3-15H300	150	300	AC380V/50 HZ/三相四线 Three-phase four-wire	≤6.5	2105
ZR0709-3-15H400		400		≤9.4	2250
ZR0709-3-15H500		500		≤12.4	2400
ZR0709-3-15H600		600		≤16.0	2850
ZR0709-3-15H700		700		≤20.0	3250
ZR0709-3-15H800		800		≤25.0	4120
ZR0709-3-23H300	230	300		≤8.0	3060
ZR0709-3-23H400		400		≤11.6	3300
ZR0709-3-23H500		500		≤16.0	3700
ZR0709-3-23H600		600		≤21.0	4450
ZR0709-3-23H700		700		≤26.0	5650
ZR0709-3-23H800		800		≤32.0	6250
ZR0709-3-30H300	300	300		≤10.0	2850
ZR0709-3-30H400		400		≤12.0	3715
ZR0709-3-30H500		500		≤18.0	4580
ZR0709-3-30H600		600		≤24..0	5820
ZR0709-3-30H700		700		≤30.0	6320
ZR0709-3-30H800		800		≤36.0	7180
ZR0709-3-35H300	350	300		≤14.0	3975
ZR0709-3-35H400		400		≤18.0	4850
ZR0709-3-35H500		500		≤24.0	5980
ZR0709-3-35H600		600		≤30.0	6480
ZR0709-3-35H700		700		≤36.0	7340
ZR0709-3-35H800		800		≤42.0	7840
ZR0709-3-40H300	400	300		≤18.0	5150
ZR0709-3-40H400		400		≤22.0	6080
ZR0709-3-40H500		500		≤28.0	6580
ZR0709-3-40H600		600		≤36.0	7485
ZR0709-3-40H700		700		≤42.0	8285
ZR0709-3-40H800		800		≤48.0	8890

注：系统配套附件可根据用户要求定制。

Note: The system supporting accessories can be customized according to user’ requirements.

ZR0709J系列全自动集成式干法电磁粉体除铁系统

ZR0709J Series Fully Automatic Integrated Dry Powder Electromagnetic Iron Separator







专利号：(ZL202122355919.0)

概述：

ZR0709J系列全自动集成式干法电磁粉体除铁系统是以ZR0709-2(或-3、-4)系列干法电磁式粉体除铁器为核心，集储料、给料、磁选、排铁、冷却、控制于一体的全自动电磁式粉体除铁设备，功能完善、自动化程度高。整套系统集成式、一体化装配，结构紧凑，配置合理，仅需用户配备提升供料设备(如业主需要，也可由我公司提供)，即可进行全自动工作。除铁效果及指标稳定性均优于单机手动操作模式。

Overview:

The ZR0709J series fully automatic integrated dry electromagnetic powder iron removal system is built around the ZR0709-2 (or -3, -4) series dry electromagnetic powder iron remover. It integrates material storage, feeding, magnetic separation, iron discharge, cooling, and control into a single, fully automatic electromagnetic powder iron removal system. With comprehensive functionality and a high degree of automation, the entire system adopts an integrated and modular design, featuring a compact structure and well-configured layout. Only a feeding/lifting device is required from the user (which can also be supplied by our company if needed) to enable fully automatic operation. The iron removal efficiency and stability of key performance indicators are superior to those of manual standalone operation.

性能特点：

1. 系统集成式、一体化装配，结构紧凑，配置合理，占用空间小，辅助设备选型、采购及装配由制造商完成，省时省力；
2. 全自动运行，可实现一人多机管理，极大地节省劳动力成本；
3. 排除了人为因素对除铁效果的影响，除铁指标稳定，效果更好；
4. 采用了PLC智能控制，自动完成励磁、给料、排铁等全部动作，不需人工操作，降低企业运营成本；
5. 彩色触摸屏设置参数、触摸按钮操作并显示工作状态，并配有手动操作面板，技术先进并具人性化；
6. 物料通道各口均采取密封防尘措施，很好地解决了粉尘污染问题；
7. 电控系统保护功能完善，确保系统安全可靠地运行。

Performance characteristics:

1. System integration, integrated assembly, compact structure, reasonable configuration, small space occupation, auxiliary equipment selection, procurement and assembly are completed by the manufacturer, saving time and effort;
2. Fully automatic operation, which can realize one-person multi-machine management, and greatly saves labor costs;
3. Excluding the influence of human factors on the iron removal effect, the iron removal index is stable and the effect is better;
4. PLC intelligent control is adopted to automatically complete all actions such as excitation, feeding, and iron discharge, without manual operation, reducing enterprise operating costs;
5. Color touch screen to set parameters, touch buttons to operate and display working status, and equipped with manual operation panel, advanced technology and humanized;
6. All ports of the material passage are sealed and dust-proof measures are taken to solve the problem of dust pollution;
7. The electronic control system has perfect protection functions to ensure the safe and reliable operation.

主要技术参数：

The main technical parameters:

型号 Model No.	空芯磁场 Air-Core Magnetic Field (mT)	有芯磁场 Cored Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	生产能力 (参考值) Production capacity (t/h)	适应物料 Applicable materials	主机重量 Main Unit Weight (kg)
ZR0709J-2-16 系列 (Series)	同ZR0709J-2-16系列 Same as ZR0709J-2-16 Series						ZR0709-2-16 系列(series)+350kg
ZR0709J-2-20 系列 (Series)	同ZR0709J-2-20系列 Same as ZR0709J-2-20 Series						ZR0709-2-20 系列(Series) + 450kg
ZR0709J-2-25 系列 (Series)	同ZR0709J-2-25系列 Same as ZR0709J-2-25 Series						ZR0709-2-25 系列(Series) + 550kg
ZR0709J-2-30 系列 (Series)	同ZR0709J-2-30系列 Same as ZR0709J-2-30 Series						ZR0709-2-30 系列(Series) + 650kg
ZR0709J-2-35 系列 (Series)	同ZR0709J-2-35系列 Same as ZR0709J-2-35 Series						ZR0709-2-35 系列(Series) + 800kg
ZR0709J-2-40 系列 (Series)	同ZR0709J-2-40系列 Same as ZR0709J-2-40 Series						ZR0709-2-40 系列(Series) + 900kg
ZR0709J-2-45 系列 (Series)	同ZR0709J-2-45系列 Same as ZR0709J-2-45 Series						ZR0709-2-40 系列(Series) + 1000kg
ZR0709J-3-15 系列 (Series)	同ZR0709J-3-15系列 Same as ZR0709J-3-15 Series						ZR0709-3-15 系列(Series) + 350kg
ZR0709J-3-23 系列 (Series)	同ZR0709J-3-23系列 Same as ZR0709J-3-23 Series						ZR0709-3-23 系列(Series) + 550kg
ZR0709J-3-30 系列 (Series)	同ZR0709J-3-30系列 Same as ZR0709J-3-30 Series						ZR0709-3-30 系列(Series) + 650kg
ZR0709J-3-35 系列 (Series)	同ZR0709J-3-35系列 Same as ZR0709J-3-35 Series						ZR0709-3-30 系列(Series) + 800kg
ZR0709J-3-40 系列 (Series)	同ZR0709J-3-40系列 Same as ZR0709J-3-40 Series						ZR0709-3-40 系列(Series) + 900kg

注：系统配套附件可根据用户要求定制。

Note: The system supporting accessories can be customized according to user' requirements.

ZR0709Z系列全自动真空进料电磁粉体除铁系统

ZR0709Z series automatic vacuum feeding dry powder electromagnetic iron separator system





■ 概述：

ZR0709Z系列全自动真空进料电磁粉体除铁系统是以ZR0709-2（或-3、-4）系列干法电磁式粉体除铁器为核心，集真空进料、储料、给料、磁选、排铁、冷却、控制于一体的全自动电磁式粉体除铁设备，功能完善、自动化程度高。整个系统集成式、一体化装配，结构紧凑，配置合理，不需用户配备提升供料设备，即可通过真空吸力将原料从地面储料容器提升到除铁器上方的储料仓中，进行全自动工作。

Overview:

The ZR0709Z series fully automatic vacuum-feeding dry powder electromagnetic iron removal system is built around the ZR0709-2 (or -3, -4) series dry powder electromagnetic separators. It integrates vacuum feeding, material storage, feeding, magnetic separation, iron discharge, cooling, and control into a single, fully automatic electromagnetic powder iron separator system. With comprehensive functionality and a high degree of automation, the entire system adopts an integrated and modular design, featuring a compact structure and well-configured layout. No additional feeding or lifting equipment is required from the user-raw material is lifted from ground-level storage containers into the surge hopper above the magnetic separator using vacuum suction, enabling fully automatic operation.

■ 性能特点：

1.系统集成式、一体化装配，结构紧凑，配置合理，占用空间小，辅助设备选型、采购及装配由制造商完成，省时省力；

2.全自动运行，可实现一人多机管理，极大地节省劳动力成本；

3.系统按照设定的时间自动定时清铁，排除了人为因素对除铁效果的影响，除铁指标稳定，效果更好；

4.电控系统采用了PLC智能控制，彩色触摸屏设置参数、触摸按钮操作并显示工作状态，并配备手动操作面板，技术先进并具人性化；

5.生产过程进料系统在负压状态下工作，物料通道各口均采取密封防尘措施，避免了粉尘污染；

6.电控系统保护功能完善，确保系统安全可靠地运行；

7.真空加料系统采用了新型微孔膜过滤器，大幅提高了加料系统的加料能力和使用寿命。

Performance Features:

1. System integration, integrated assembly, compact structure, reasonable configuration, small space occupation, auxiliary equipment selection, procurement and assembly are completed by the manufacturer, saving time and effort;
2. Fully automatic operationenabies one-person multi-machine management, which greatly saves labor costs;
3. The system automatically clears iron regularly according to the set time, eliminating the influence of human factors on the iron removal effect, and the iron removal index is stable and the effect is better;
4. The electric control system adopts PLC intelligent control, color touch screen to set parameters, touch button operation and display working status, and is equipped with manual operation panel, advanced technology and humanized;
5. During the production process, the feeding system works under negative pressure, and all ports of the material channel are sealed and dust-proof to avoid dust pollution;
6. The electronic control system has perfect protection functions to ensure the safe and reliable operation of the system;
7. The vacuum feeding system adopts a new type of microporous membrane filter, which greatly improves the feeding capacity and service life of the feeding system.

主要技术参数：

The main technical parameters:

型号 Model No.	空芯磁场 Air-Core Magnetic Field (mT)	有芯磁场 Cored Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	生产能力 (参考值) Production capacity (t/h)	适应物料 Applicable materials	进料机功率 参考 (kW) Feeding Machine power Ref.(kW)	主机重量 Main Unit Weight (kg)
ZR0709Z-2-16 系列 (Series)	同ZR0709J-2-16系列 Same as ZR0709J-2-16 Series						2.2kW	ZR0709-2-16 系列 (Series) +400kg
ZR0709Z-2-20 系列 (Series)	同ZR0709J-2-20系列 Same as ZR0709J-2-20 Series						3.0kW	ZR0709-2-20 系列 (Series) +500kg
ZR0709Z-2-25 系列 (Series)	同ZR0709J-2-25系列 Same as ZR0709J-2-25 Series						3.0kW	ZR0709-2-25 系列 (Series) +600kg
ZR0709Z-2-30 系列 (Series)	同ZR0709J-2-30系列 Same as ZR0709J-2-30 Series						5.5kW	ZR0709-2-30 系列 (Series) +750kg
ZR0709Z-2-35 系列 (Series)	同ZR0709J-2-35系列 Same as ZR0709J-2-35 Series						5.5kW	ZR0709-2-35 系列 (Series) +900kg
ZR0709Z-2-40 系列 (Series)	同ZR0709J-2-40系列 Same as ZR0709J-2-40 Series						7.5kW	ZR0709-2-40 系列 (Series) +1000kg
ZR0709Z-2-45 系列 (Series)	同ZR0709J-2-45系列 Same as ZR0709J-2-45 Series						7.5kW	ZR0709-2-45 系列 (Series) +1100kg
ZR0709Z-3-15 系列 (Series)	同ZR0709J-3-15系列 Same as ZR0709J-3-15 Series						2.2kW	ZR0709-3-15 系列 (Series) +400kg
ZR0709Z-3-23 系列 (Series)	同ZR0709J-3-23系列 Same as ZR0709J-3-23 Series						3.0kW	ZR0709-3-23 系列+约600kg
ZR0709Z-3-30 系列 (Series)	同ZR0709J-3-30系列 Same as ZR0709J-3-30 Series						5.5kW	ZR0709-3-30 系列 (Series) +750kg
ZR0709Z-3-35 系列 (Series)	同ZR0709J-3-35系列 Same as ZR0709J-3-35 Series						5.5kW	ZR0709-3-30 系列 (Series) +750kg
ZR0709Z-3-40 系列 (Series)	同ZR0709J-3-40系列 Same as ZR0709J-3-40 Series						7.5kW	ZR0709-3-40 系列 (Series) +1000kg

注：系统配套附件可根据用户要求定制。

Note: The system supporting accessories can be customized according to user' requirements.

ZR0709-C系列干法串联型电磁式粉体除系统

ZR0709-C Series Dry Powder Series-connected Electromagnetic Separator System







专利号：(ZL202320623732.0)







专利号：(ZL202322399956.0)

概述：

ZR0709-C系列干法串联型电磁式粉体除铁系统是在ZR0709-2（或-3、-4）系列干法电磁式粉体除铁器的基础上，将两台或多台除铁器串联组合在一起，自动完成除铁工作的粉体除铁系统。

Overview:

ZR0709-C series dry powder series electromagnetic separator system is based on ZR0709-2 (or -3、-4) series dry powder electromagnetic separator. two or more magnetic separator are combined in series to automatically complete the iron removal process.

性能特点：

1.系统组合式、一体化装配，结构紧凑，布局合理，占用空间小，安装调试一次完成，省时省力；

2.全自动运行，可实现一人多机管理，极大地节省劳动力成本；

3.粉体物料一次性经过两台或多台机器处理，相当于一次性处理两遍或多遍，可进一步提高除铁效果，省工省时，提高工作效率，达到事半功倍的效果；

4.串联各机联动运行，协调动作，在控制系统的控制下协同完成除铁工作。

Performance characteristics:

1. The system features a modular and integrated assembly, compact structure, reasonable layout, small space occupation, installation and debugging can be completed in one step, saving time and effort;
2. Fully automatic operation, which can realize one-person multi-machine management, which greatly saves labor costs;
3. Powder material passes through two or more machines in a single process, which is equivalent to being treated two or more times in one go. This further improves iron removal efficiency, saves labor and time, increases productivity, and delivers exceptional efficiency.
4. The units connected in series operate in a coordinated manner, working together under the control of the control system to complete the iron removal process.

主要技术参数说明：

1.励磁功率：串联各机励磁功率之和；

2.生产能力：以系统中最小机型为准；

3.适应物料：与单机适应物料相同；

4.整机重量：串联各机重量之和+钢架、阶梯重量。

Description of main technical parameters:

1. Excitation power: the sum of excitation power of each machine in series;
2. Production capacity: subject to the smallest model in the system;
3. Adapted materials: the same as the adaptable materials of a single machine.
4. Whole Machine Weight: Sum of the weights of each series-connected machine + Weight of the steel frame and stairs.

ZR0709-4-H系列干法电磁分离机

ZR0709-4-H series Dry Powder Electromagnetic Iron Separator





发明专利：(ZL202111126508.2)　实用新型专利：(ZL202122320580.0)（ZL202223088860.4)

概述：

ZR0709-4-H系列强冷却电磁式高效粉体除铁器是我公司自主研发的一款空心磁场达到10000GS的干法粉体磁选设备。线圈散热是电磁式粉体磁选机需要克服的关键技术。我公司科研人员利用低沸点传热介质气-液物态变化吸放热原理研制成功了空心磁场高达10000GS的强冷却高效电磁式粉体除铁器，该机不仅空芯磁场高，而且对用户冷却条件要求低且冷却效果极佳，从而解决了高磁场电磁式粉体除铁器的线圈散热问题，突破了常规冷却方式的电磁式粉体除铁器的磁场瓶颈。该机特别适用于高纯粉体材料弱磁性杂质的分离，深受用户青睐。

Overview:

The ZR0709-4-H series high-cooling electromagnetic high-efficiency powder iron separator is dry powder magnetic separation equipment independently developed by our company, with an air-core magnetic field of up to 10000 GS. Coil heat dissipation is a key technical challenge for electromagnetic powder magnetic separators. By utilizing the heat absorption and release principle during gas-liquid phase change of a low-boiling point heat transfer medium. our R&D team has successfully developed this high-cooling high-efficiency dry powder electromagnetic iron separator with an air-core magnetic field of up to 10000 GS. This equipment not only features an ultra-high air-core magnetic field. but also imposes minimal cooling requirements on users while providing exceptional cooling performance, It thus solves the coil heat dissipation problem of high-magnetic-field dry powder electromagnetic separators and breaks the magnetic field bottleneck of electromagnetic separators under conventional cooling methods. Especially suitable for separating weakly magnetic impurities in high-purity powder materials and is highly favored by users.

性能特点：

1. 技术先进：采用本公司自主研发的励磁线圈高效冷却系统，冷却效果极佳，空心磁场可达10000GS以上，方便用户开展科学研究，给用户带来极佳的优越体验。

2. 除铁效率高：独特的结构设计和高磁力性能，使得该设备具有极佳的除铁效率，特别适用于高纯、超高纯粉体材料弱磁性杂质的分离，为高纯、超高纯材料严苛的纯度要求提供保障，是各种物理法粉体除铁设备难以企及的。

3. 由于实现了冷却方式的突破，从而克服了励磁线圈的散热瓶颈，获得更高的励磁功率和空心磁场。

4. 对用户冷却条件要求低，仅需少量常温冷却水，甚至不需要冷却水（风冷式）。

5. 磁场线性可调，用户可根据不同的磁选要求在0~10000GS范围内灵活调整，方便用户进行磁选数据分析。

6. 彻底分离铁粉与基本物料：排料阀的独特设计，完全杜绝分离出的铁杂质进入成品料，成品料也不会进入杂质箱中。

Performance Features:

1. Advanced Technology: Adopting the independently developed high-efficiency cooling system for excitation coils, the equipment delivers an excellent cooling effect with an air-core magnetic field of over 10000 GS. It facilitates users' scientific research and provides an outstanding user experience.
2. High Iron Removal Efficiency: With its unique structural design and high magnetic performance, the equipment achieves an excellent iron removal efficiency. It is specially suitable for separating weakly magnetic impurities in high-purity and ultra-high-purity powder materials, providing a guarantee for the stringent purity requirements of such materials, and its performance is unmatched by various physical powder iron removal equipment.
3. The breakthrough in cooling method overcomes the heat dissipation bottleneck of excitation coils, enabling higher excitation power and a stronger air-core magnetic field.
4. Low Requirements for Users' Cooling Conditions: Only a small amount of normal temperature cooling water is required, and even no cooling water is needed for the air-cooled version.
5. Linearly Adjustable Magnetic Field: Users can flexibly adjust the magnetic field within the range of 0~10000 GS according to different magnetic separation requirements, facilitating the analysis of magnetic separation data.
6. Complete Separation of Iron Powder and Raw Materials: The unique design of the discharge valve completely prevents the separated iron impurities from entering the finished product and the finished product from entering the impurity container.

主要技术参数：

The main technical parameters:

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	总功率(约) (kW) Total Approx. power (kW)	主机重量 Main Unit Weight (kg)
ZR0709-4-15H800	150	800	AC380V/50 HZ /三相四线 Three-phase four-wire	≤30.0	47.0	3180
ZR0709-4-15H900		900		≤36.0	56.0	3700
ZR0709-4-15H1000		1000		≤43.0	67.0	4800
ZR0709-4-23H800	230	800		≤38.0	60.0	5080
ZR0709-4-23H900		900		≤45.0	70.0	6255
ZR0709-4-23H1000		1000		≤56.0	87.0	7100
ZR0709-4-30H800	300	800		≤42.0	65.0	6525
ZR0709-4-30H900		900		≤52.0	81.0	7100
ZR0709-4-30H1000		1000		≤61.0	94.0	8150
ZR0709-4-35H800	300	800		≤52.0	81.0	7185
ZR0709-4-35H900		900		≤61.0	94.0	8100
ZR0709-4-35H1000		1000		≤71.0	110.0	8900

注：系统配套附件可根据用户要求定制。

Note: The system supporting accessories can be customized according to user’ requirements.

ZR0709S-2系列湿法电磁式粉体除铁器

ZR0709S-2 Series Wet Powder Electromagnetic Iron Separator







概述：

ZR0709S-2系列电磁式湿法粉体除铁器是我公司自主研发的一款高性价比的湿法除铁设备。该机设计独特，磁场高达1.8~2.0万高斯，吸力强大，捕捉力强，不仅可以将原料在研磨过程中产生的机械铁等磁性物基本除净，而且一般除铁设备难以去除的原矿中氧化铁（Fe203）及其它弱磁性杂质也能除去大部分，除铁效果显著；该机清铁方便，只需十几秒钟即可完成清洗。对于欲提高原料的白度和产品品位的企业，提供了一个可行方案。

Overview:

The ZR0709S-2 series electromagnetic wet powder iron remover is cost-effective wet-type iron removal equipment independently developed by our company. Featuring a unique design, it achieves a magnetic field strength of 18,000–20,000 Gauss, delivering strong magnetic force and high capture capability. It not only effectively removes magnetic contaminants such as mechanical iron generated during the grinding process but also eliminates the majority of iron oxide (Fe2O3) and other weakly magnetic impurities in raw ores that are difficult to remove by conventional iron removal equipment —delivering remarkable iron removal results. The machine allows for convenient iron cleaning, with the cleaning process completed in just a dozen seconds. It provides a feasible solution for enterprises aiming to improve the whiteness of raw materials and enhance product grade.

性能特点：

1.设计独特，工作腔内磁场高达1.8~2.0万高斯，除铁效果显著；

2.高压水冲洗，冲洗干净迅速，只需十几秒钟即可完成一次清洗；

3.采用强迫油循环水冷却方式，冷却效果理想；

4.线圈温度实时监测，有效地避免了线圈由于温升过高而烧毁；

5. 多种磁滤芯介质备选方案，可适用于不同细度、不同浓度和粘稠度的不同物料，合理的磁滤芯介质的选择可以获得最佳除铁效果，最大程度减少尾矿浪费。

Performance characteristics:

1. Unique design delivers a magnetic field strength of 18,000–20,000 Gauss within the working camber, achieving remarkable iron removal efficiency.
2. High-pressure water flushing ensures thorough and rapid cleaning, completing a full cleaning cycle in just a dozen seconds.
3. Forced oil circulation water cooling system provides ideal cooling performance.
4. Real-time coil temperature monitoring effectively prevents coil burnout due to excessive temperature rise.
5. Multiple magnetic filter medium options are available to accommodate different materials with varying fineness, concentration, and viscosity. Selecting the appropriate magnetic filter medium ensures optimal iron removal efficiency while minimizing tailing waste.

主要技术参数：

The main technical parameters:

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	有芯磁场 Cored Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	生产能力 (参考值) Production capacity (t/h)	适应物料 Applicable materials	主机重量 Main Unit Weight (kg)
ZR0709S-2-16T250	160	250	≥1600	AC380V/50Hz/三相四线 AC380V/50Hz/ Three phase and Four wir	≤6.0	3~6	a.物料粒度200目以细； b.非磁性； c.浓度≤30%； d.含铁量≤1% a.Particle size ≤200 mesh b. Non-magnetic material c.Slurry concentration ≤30%; d.iron content ≤1%	705
ZR0709S-2-16T300		300	≥1700		≤8.4			845
ZR0709S-2-16T350		350	≥1800		≤10.8			925
ZR0709S-2-20T250	200	250	≥1600		≤7.2	5~10		850
ZR0709S-2-20T300		300	≥1700		≤9.6			975
ZR0709S-2-20T350		350	≥1800		≤12.9			1155
ZR0709S-2-25T250	250	250	≥1600		≤8.1	7~15		940
ZR0709S-2-25T300		300	≥1700		≤12.6			1180
ZR0709S-2-25T350		350	≥1800		≤15.6			1520
ZR0709S-2-30T250	300	250	≥1600		≤9.0	10~20		1340
ZR0709S-2-30T300		300	≥1700		≤12.6			1730
ZR0709S-2-30T350		350	≥1800		≤18.0			1845
ZR0709S-2-35T250	350	250	≥1600		≤12.0	15~30		1720
ZR0709S-2-35T300		300	≥1700		≤16.2			2020
ZR0709S-2-35T350		350	≥1800		≤21.0			2205
ZR0709S-2-40T250	400	250	≥1600		≤14.1	25~50		1910
ZR0709S-2-40T300		300	≥1700		≤18.6			2310
ZR0709S-2-40T350		350	≥1800		≤23.7			2585
ZR0709S-2-45T250	450	250	≥1600		≤16.5	40~80		2540
ZR0709S-2-45T300		300	≥1700		≤21.3			2850
ZR0709S-2-45T350		350	≥1800		≤27.0			3100

（高纯型）(High Purity Type)

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	有芯磁场 Cored Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	生产能力 (参考值) Production capacity (t/h)	适应物料 Applicable materials	主机重量 Main Unit Weight (kg)
ZR0709S-2-16G400	160	400	≥2000	AC380V/50 HZ/三相四线 Three-phase four-wire	≤13.2	3~6	a.8-120目粉或颗粒； b.非磁性； c.干燥； d.含铁量≤1% a. Powders or granules finer than 8 mesh b. Non-magnetic c. Dry d. Iron content≤1%	1115
ZR0709S-2-16G450		450			≤16.2			1325
ZR0709S-2-16G500		500			≤19.5			1715
ZR0709S-2-16G550		550			≤22.8			2065
ZR0709S-2-16G600		600			≤26.1			2115
ZR0709S-2-16G650		650			≤29.4			2415
ZR0709S-2-16G700		700			≤32.0			2865
ZR0709S-2-20G400	200	400			≤16.5	5~10		1430
ZR0709S-2-20G450		450			≤20.7			1780
ZR0709S-2-20G500		500			≤24.9			2130
ZR0709S-2-20G550		550			≤29.4			2380
ZR0709S-2-20G600		600			≤33.1			2980
ZR0709S-2-20G650		650			≤38.9			3330
ZR0709S-2-20G700		700			≤44.7			3730
ZR0709S-2-25G400	250	400			≤18.6	7`~15		1760
ZR0709S-2-25G450		450			≤22.5			2130
ZR0709S-2-25G500		500			≤27.0			2395
ZR0709S-2-25G550		550			≤30.7			2830
ZR0709S-2-25G600		600			≤36.0			3180
ZR0709S-2-25G650		650			≤42.0			3780
ZR0709S-2-25G700		700			≤49.8			4610
ZR0709S-2-30G400	300	400			≤22.2	10~20		2215
ZR0709S-2-30G450		450			≤25.2			2520
ZR0709S-2-30G500		500			≤29.0			2970
ZR0709S-2-30G550		550			≤34.8			3180
ZR0709S-2-30G600		600			≤40.6			3430
ZR0709S-2-30G650		650			≤46.4			3950
ZR0709S-2-30G700		700			≤52.2			4465

(高纯型) (High Purity Type)

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	有芯磁场 Cored Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	生产能力 (参考值) Production capacity (t/h)	适应物料 Applicable materials	主机重量 Main Unit Weight (kg)
ZR0709S-2-35G400	350	400	≥2000	AC380V/50 HZ/三相四线 Three-phase four-wire	≤26.4	15-30	a.物料粒度200目以细; b.非磁性; c.浓度≤30% d.含铁量≤1%。 a.Particle size ≤200 mesh b.Non-magnetic material c.Slurry concentration ≤30%; d.iron content ≤1%	2810
ZR0709S-2-35G450		450			≤31.0			3330
ZR0709S-2-35G500		500			≤37.4			3960
ZR0709S-2-35G550		550			≤44.4			4640
ZR0709S-2-35G600		600			≤51.6			5415
ZR0709S-2-35G650		650			≤56.1			5930
ZR0709S-2-35G700		700			≤63.3			6630
ZR0709S-2-40G400	400	400			≤29.4	25-50		3235
ZR0709S-2-40G450		450			≤34.8			3800
ZR0709S-2-40G500		500			≤41.8			4640
ZR0709S-2-40G550		550			≤49.3			5620
ZR0709S-2-40G600		600			≤55.0			6750
ZR0709S-2-40G650		650			≤64.4			7820
ZR0709S-2-40G700		700			≤74.3			9020
ZR0709S-2-45G400	450	400			≤33.0	40-80		3880
ZR0709S-2-45G450		450			≤40.6			4530
ZR0709S-2-45G500		500			≤49.3			5320
ZR0709S-2-45G550		550			≤55.0			6120
ZR0709S-2-45G600		600			≤64.4			7050
ZR0709S-2-45G650		650			≤74.3			8170
ZR0709S-2-45G700		700			≤85.3			9390
ZR0709S-2-50	500	按			按	50-90		
ZR0709S-2-60	600	需			需	70-120		
ZR0709S-2-80	800	设			设	100-160		
ZR0709S-2-100	1000	计			计	150-200		

注:系统配套附件可根据用户要求定制。
Note: The system supporting accessories can be customized according to user' requirements.

ZR0709S-C系列湿法串联型电磁式粉体除系统

ZR0709S-C Series wet type series powder electromagnetic separator system





■ 概述：

ZR0709S-C系列湿法串联型电磁式粉体除铁系统是在ZR0709S系列湿法电磁式粉体除铁器的基础上，将两台或多台机器串联组合在一起，在一套控制系统的统一控制下自动完成粉体浆料除铁的粉体除铁系统。

Overview:

ZR0709S-C Series wet-type series powder electromagnetic separator system is based on the ZR0709S series wet powder electromagnetic separator, two or more magnetic separator are combined in series to automatically complete the iron removal process for wet slurry powder material

■ 性能特点及用途：

1.系统组合式、一体化装配，结构紧凑，布局合理，占用空间小。

2.全自动运行，可实现一人多机管理，极大地节省劳动力成本。

3.粉体物料一次性经过两台或多台机器处理，相当于一次性处理两遍或多遍，可进一步提高除铁效果，提高工作效率，达到事半功倍的效果。

4.串联各机同步运行，在控制系统的统一控制下协同完成除铁工作。

Performance characteristics:

1. The system is modular and integrated assembly, compact structure, reasonable layout, small space occupation;
2. Fully automatic operation, which can realize one-person multi-machine management, which greatly saves labor costs;
3. Powder material passes through two or more machines in a single process, which is equivalent to being separated two or more times in one go. This further improves iron removal efficiency, saves labor and time, increases productivity, and delivers high efficiency.
4. The units connected in series operate synchronously and work together to complete the iron removal process under the centralized control system.

■ 主要技术参数说明：

1.励磁功率：串联各机励磁功率之和。 2.生产能力：以系统中最小机型为准。

3.适应物料：与单机适应物料相同。 4.整机重量：串联各机重量之和+钢架重量。

Description of main technical parameters:

1. Excitation power: the sum of excitation power of each machine in series;
2. Production capacity: subject to the smallest model in the system;
3. Adapted materials: the same as the adaptable materials of a single machine.
4. Whole Machine Weight: Sum of the weights of each series-connected machine + Weight of the steel frame and stairs.

ZR0709SS-2系列顺流式电磁砂浆磁选机

ZR0709SS-2 Series Mortar Downflow Electromagnetic Separator



专利号:(ZL202221073759.9)

概述：

ZR0709-4-H系列强冷却电磁式高效粉体除铁器是我公司自主研发的一款空心磁场达到10000GS的干法粉体磁选设备。线圈散热是电磁式粉体磁选机需要克服的关键技术。我公司科研人员利用低沸点传热介质气-液物态变化吸放热原理研制成功了空心磁场高达10000GS的强冷却高效电磁式粉体除铁器，该机不仅空芯磁场高，而且对用户冷却条件要求低且冷却效果极佳，从而解决了高磁场电磁式粉体除铁器的线圈散热问题，突破了常规冷却方式的电磁式粉体除铁器的磁场瓶颈。该机特别适用于高纯粉体材料弱磁性杂质的分离，深受用户青睐。

Overview

The ZR0709SS-2 Series Wet Mortar Electromagnetic Separator is a self-developed device specifically designed for iron removal from coarse-particle mortar. With its unique design, this machine not only takes advantage of the high magnetic separation efficiency of chamber- type slurry electromagnetic separators. but also skillfully solves the problems of sedimentation and blockage that coarse-grained slurry is prone to during magnetic separation by adopting a co-current flow arrangement . It effectively solves the industry challenge of poor magnetic separation performance for coarse mortar and is highly praised by customers.

性能特点：

1.设计独特，利用了腔式电磁浆料磁选机磁选效果好的优点，工作腔内介质网磁场高达1.8~2.0万高斯，除铁效果显著；

2.采取顺流、回流等措施巧妙地解决了粗颗粒砂浆在磁选过程中容易沉淀、堵塞的问题，作业过程稳定流畅；

3.高压水冲洗，冲洗干净迅速，只需十几秒钟即可完成一次清洗；

4.采用强迫油循环水冷却方式，冷却效果理想；

5.线圈温度实时监测，有效地避免了线圈由于温升过高而烧毁；

6.全自动工作，启动后不需人工操作，系统按设定的程序自动完成除铁作业。

Performance Features

1. Unique design – Utilizes the high separation efficiency of chamber-type slurry electromagnetic separators. The magnetic field intensity in the working chamber reaches 18,000–20,000 gauss, delivering outstanding iron removal performance.
2. Co-current and return flow design – Ingeniously resolves the sedimentation and clogging problems typically encountered when separating coarse mortar, ensuring stable and smooth operation.
3. High-pressure water flushing – Achieves rapid and thorough cleaning in just a dozen seconds per cycle.
4. Forced oil-circulation water cooling – Provides excellent cooling performance.
5. Real-time coil temperature monitoring – Effectively prevents coil burnout due to excessive temperature rise.
6. Fully automatic operation – No manual intervention required after startup; the system automatically completes the iron removal process according to the preset program.

主要技术参数：

The main technical parameters:

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	有芯磁场 Cored Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	生产能力 (参考值) Production capacity (t/h)	适应物料 Applicable materials	主机重量 Main Unit Weight (kg)
ZR0709SS-2-16 系列 (Series)	同ZR0709J-2-16系列 Same as ZR0709J-2-16 Series						a.物料粒度20目以细；b.非磁性；c.浓度≤30%；d.含铁量≤1%。 a.Particle size ≤200 mesh b.Non-magnetic material c.Slurry concentration ≤30%; d.iron content ≤1%	ZR0709-2-16 系列 (Series) +400kg
ZR0709SS-2-20 系列 (Series)	同ZR0709J-2-20系列 Same as ZR0709J-2-20 Series							ZR0709-2-20 系列 (Series) +500kg
ZR0709SS-2-25 系列 (Series)	同ZR0709J-2-25系列 Same as ZR0709J-2-25 Series							ZR0709-2-25 系列 (Series) +600kg
ZR0709SS-2-30 系列 (Series)	同ZR0709J-2-30系列 Same as ZR0709J-2-30 Series							ZR0709-2-30 系列 (Series) +750kg
ZR0709SS-2-35 系列 (Series)	同ZR0709J-2-35系列 Same as ZR0709J-2-35 Series							ZR0709-2-35 系列 (Series) +900kg
ZR0709SS-2-40 系列 (Series)	同ZR0709J-2-40系列 Same as ZR0709J-2-40 Series							ZR0709-2-40 系列 (Series) +1000kg
ZR0709SS-2-45 系列 (Series)	同ZR0709J-2-45系列 Same as ZR0709J-2-45 Series							ZR0709-2-45 系列 (Series) +1100kg

注：系统配套附件可根据用户要求定制。

Note: The system supporting accessories can be customized according to user' requirements.

ZR0709S-3-H系列湿法电磁分离机

ZR0709S-3-H Series Wet Electromagnetic Separator







概述：

ZR0709S-3-H系列电磁分离机是基于ZR0709S-2系列电磁式粉体除铁器原理及成熟技术，借鉴美国、日本、韩国同类设备优点，加以吸收和改进研制而成的一款具有国际先进水平的电磁式粉体除铁设备。该设备与美国、日本、韩国同类设备相比，磁力更强、性能更优，各项性能指标均达到或超过同类进口设备。

Overview:

The ZR0709S-3-H Series electromagnetic separator is developed based on the principles and proven technology of the ZR0709S-2 Series powder electromagnetic iron separator, incorporating the advantages of similar equipment from the United States, Japan, and South Korea, with further optimization and improvements. It is an electromagnetic powder iron removal device that achieves world-leading performance. Compared with similar equipment from the United States, Japan, and South Korea, this machine offers stronger magnetic force and superior performance, with all performance indicators meeting or exceeding those of comparable imported equipment.

性能特点：

1. 技术先进：在美国、日本、韩国同类设备基础上加以吸收、改进，磁力更强，性能更优，各项性能指标均达到或超过同类进口设备。

2.高压水冲洗，冲洗干净迅速，只需十几秒钟即可完成一次清洗；

3.采用强迫油循环水冷却方式，冷却效果理想；

4.线圈温度实时监测，有效地避免了线圈由于温升过高而烧毁；

5.除铁效率高：独特的结构设计和高磁力性能，使得该设备具有极佳的除铁效率，为高纯物料严格的纯度要求提供保障。

6.多种磁滤芯介质备选方案，可适用于不同细度、不同浓度和粘稠度的不同物料，合理的磁滤芯介质的选择可以获得最佳除铁效果，最大程度减少尾矿浪费。

Performance Features:

1. Advanced Technology: Built upon the advantages of similar equipment from the United States, Japan, and South Korea, with further optimization and improvements, resulting in stronger magnetic force, superior performance, and all performance indicators meeting or exceeding those of comparable imported equipment.
2. High-pressure water flushing: Provides thorough and rapid cleaning, completing one cleaning cycle in just over ten seconds.
3. Forced oil circulation water cooling: Ensures ideal cooling performance.
4. Real-time coil temperature monitoring: Effectively prevents coil burnout due to excessive temperature rise.
5. High iron removal efficiency: The unique structural design and high magnetic force enable exceptional iron removal efficiency, ensuring the strict purity requirements for high-purity materials.
6. Multiple magnetic filter media options: Accommodates materials with varying fineness, concentration, and viscosity. Selecting the appropriate magnetic filter medium achieves optimal iron removal results while minimizing tailing waste.

■ 主要技术参数：

The main technical parameters:

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	重量 Weight (kg)
ZR0709S-3-15H300	150	300	AC380V/50HZ/ 三相四线 AC380V/ 50Hz/ Three phase and Four wire	≤6.5	2120
ZR0709S-3-15H400		400		≤9.4	2265
ZR0709S-3-15H500		500		≤12.4	2415
ZR0709S-3-15H600		600		≤16.0	2865
ZR0709S-3-15H700		700		≤20.0	3265
ZR0709S-3-15H800		800		≤25.0	4135
ZR0709S-3-23H300	230	300		≤8.0	3090
ZR0709S-3-23H400		400		≤11.6	3330
ZR0709S-3-23H500		500		≤16.0	3730
ZR0709S-3-23H600		600		≤21.0	4480
ZR0709S-3-23H700		700		≤26.0	5680
ZR0709S-3-23H800		800		≤32.0	6280
ZR0709S-3-30H300	300	300		≤10.0	2930
ZR0709S-3-30H400		400		≤12.0	3795
ZR0709S-3-30H500		500		≤18.0	4660
ZR0709S-3-30H600		600		≤24..0	5900
ZR0709S-3-30H700		700		≤30.0	6400
ZR0709S-3-30H800		800		≤36.0	7260
ZR0709S-3-35H300	350	300		≤14.0	4055
ZR0709S-3-35H400		400		≤18.0	4930
ZR0709S-3-35H500		500		≤24.0	6060
ZR0709S-3-35H600		600		≤30.0	6560
ZR0709S-3-35H700		700		≤36.0	7420
ZR0709S-3-35H800		800		≤42.0	7920
ZR0709S-3-40H300	400	300		≤18.0	5300
ZR0709S-3-40H400		400		≤22.0	6230
ZR0709S-3-40H500		500		≤28.0	6730
ZR0709S-3-40H600		600		≤36.0	7635
ZR0709S-3-40H700		700		≤42.0	8435
ZR0709S-3-40H800		800		≤48.0	9040

注：系统配套附件可根据用户要求定制。

Note: The system supporting accessories can be customized according to user’ requirements.

ZR0709S-4系列湿法电磁分离机

ZR0709S-4-H Series Wet Electromagnetic Separator







发明专利：(ZL202111126508.2)　实用新型专利：(ZL202122320580.0) (ZL202223088860.4)

概述：

ZR0709S-4系列湿法电磁分离机是本公司自主研发的一款空心磁场达到15000GS的粉体湿法磁选设备，该设备在ZR0709S-3系列电磁式粉体除铁器成熟技术的基础上，采用本公司自主研发的励磁线圈高效冷却系统，冷却效果极佳，从而解决了高磁场电磁式粉体除铁器的散热问题，实现了体积小、磁场高的突破，特别适用于高纯粉体材料弱磁性杂质的分离，倍受用户青睐。

Overview:

The ZR0709S-4-H Series wet electromagnetic separator is wet powder magnetic separation machine independently developed by our company, featuring an air-core magnetic field reaching 15,000 GS. Built upon the proven technology of the ZR0709S-3-H Series wet powder electromagnetic iron separators, this device utilizes a highly efficient excitation coil cooling system independently developed by our company, delivering exceptional cooling performance. This effectively resolves the heat dissipation challenges of high-field powder electromagnetic iron separators , achieving breakthroughs in both compact size and high magnetic field strength. It is particularly suitable for separating weakly magnetic impurities from high-purity powder materials and is highly favored by users.

性能特点：

1. 技术先进：采用本公司自主研发的励磁线圈高效冷却系统，冷却效果极佳。
2. 特殊的磁腔结构设计，根据不同的物料特性，选择合适的的腔体尺寸，空心磁场可在6000~15000GS之间进行选择。
3. 除铁效率高：独特的结构设计和高磁力性能，使得该设备具有极佳的除铁效率，特别适用于高纯粉体材料弱磁性杂质的分离，为高纯材料严格的纯度要求提供保障。
4. 体积小：由于实现了冷却方式的突破，从而实现了体积小的突破，设备成本低，性价比极高。
5. 安装简便：只要基础安全牢固，空间合理，设备可在极短时间内安装完成。
6. 高压水冲洗：冲洗干净迅速，只需十几秒钟即可完成一次清洗。
7. 多种磁滤芯介质备选方案，可适用于不同细度、不同浓度和粘稠度的不同物料，合理的磁滤芯介质的选择可以获得最佳除铁效果，最大程度减少尾矿浪费。

Performance Features:

1. Advanced Technology: Utilizes a highly efficient excitation coil cooling system independently developed by our company, delivering exceptional cooling performance.
2. Specialized Magnetic Chamber Structure Design: The appropriate chamber dimensions can be selected, with air-core magnetic field strength adjustable between 6,000 and 15,000 GS.
3. High Iron Removal Efficiency: The unique structural design and high magnetic force enable exceptional iron removal efficiency, making it especially suitable for separating weakly magnetic impurities from high-purity powder materials, ensuring the strict purity requirements for high-purity materials.
4. Compact Size: Thanks to a breakthrough in cooling technology, a compact size has been achieved, resulting in lower equipment costs and exceptional cost-effectiveness.
5. Easy Installation: As long as the foundation is safe, secure, and the space is appropriate, the equipment can be installed in a very short time.
6. High-Pressure Water Flushing: Provides thorough and rapid cleaning, completing one cleaning cycle in just a dozen seconds.
7. Multiple Magnetic Filter Medium Options: Accommodates different materials with varying fineness, concentration, and viscosity. Selecting the appropriate magnetic filter medium achieves optimal iron removal results while minimizing tailing waste.

主要技术参数：

The main technical parameters:

型号 Model No.	磁腔内径 Magnetic Chamber Inner Diameter (mm)	空芯磁场 Air-Core Magnetic Field (mT)	输入电压 Input voltage	励磁功率 Excitation power (kW)	总功率(约) Total Approx. power (kW)	重量 Weight (kg)
ZR0709S-4-15H800	150	800	AC380V/50HZ/ 三相四线 AC380V/ 50Hz/ Three phase and Four wire	≤30.0	47.0	3195
ZR0709S-4-15H900		900		≤36.0	56.0	3715
ZR0709S-4-15H1000		1000		≤43.0	67.0	4815
ZR0709S-4-23H800	230	800		≤38.0	60.0	5130
ZR0709S-4-23H900		900		≤45.0	70.0	6285
ZR0709S-4-23H1000		1000		≤56.0	87.0	7130
ZR0709S-4-30H800	300	800		≤42.0	65.0	6605
ZR0709S-4-30H900		900		≤52.0	81.0	7180
ZR0709S-4-30H1000		1000		≤61.0	94.0	8230
ZR0709-4-35H800	350	800		≤52.0	81.0	7265
ZR0709-4-35H900		900		≤61.0	94.0	8180
ZR0709-4-35H1000		1000		≤71.0	110.0	8980

注：系统配套附件可根据用户要求定制。

Note: The system supporting accessories can be customized according to user' requirements.

ZR0709LZ、ZR0709SLZ系列锂电正极材料专用除磁机

ZR0709LZ, ZR0709SLZ Series Dedicated Magnetic Separator for Lithium Battery Cathode Materials



ZR0709LZ锂电正极材料干法除磁机
ZR0709LZLithium cathode material dry demagnetizer



手持式合金元素分析仪
(严格检测铜、锌含量)



ZR0709SLZ锂电正极材料湿法除磁机
ZR0709SLZLithium cathode material wet demagnetizer

概述：

ZR0709LZ、ZR0709SLZ系列系列锂电正极材料专用除磁机，是本公司根据目前锂电正极材料的除磁要求，在我公司成熟的电磁粉体除磁技术基础上，根据各种锂电正极材料的物理特性，研制而成的一款锂电正极材料专用除磁设备,分为ZR0709LZ干法和ZR0709SLZ湿法两种机型。

Overview:

The ZR0709LZ and ZR0709SLZ Series dedicated magnetic separators for lithium battery cathode materials are developed by our company based on our mature powder electromagnetic separation technology, taking into account the magnetic separation requirements of current lithium battery cathode materials and the physical characteristics of various lithium battery cathode materials. This dedicated magnetic separation equipment for lithium battery cathode materials is available in two models: ZR0709LZ (dry process) and ZR0709SLZ (wet process).

性能特点：

1.在ZR0709-2及ZR0709-3系列电磁式粉体除铁器成熟技术基础上，结合锂电正极材料的物理特性及特殊要求研制而成，具有很强的针对性和实用性；

2.采用先进的恒磁技术，根据物料特性设定好磁场强度以后，该磁场将不受线圈温度、外界环境温度、电网电压波动等因素的影响，始终保持恒定，从而确保锂电正极材料除磁效果的稳定性，使设备始终保持最佳除磁效果。

3.设备所有裸露部件禁铜、锌等材质，一律使用锂电正极材料专用部件，并严格检测，铜锌含量达到锂电池正极材料铜锌含量指标要求。

4.可采取全不锈钢外壳，以满足用户使用现场对设备的严格要求。

Performance Features:

1. It is developed on the basis of the mature technology of the ZR0709-2 and ZR0709-3 Series electromagnetic powder iron removers, combined with the physical characteristics and specific requirements of lithium battery cathode materials, offering strong specificity and practicality.
2. Adopts advanced constant magnetic field technology. Once the magnetic field intensity is set according to material characteristics, the magnetic field remains constant regardless of factors such as coil temperature, ambient temperature, or power grid voltage fluctuations. This ensures the stability of the magnetic separation effect for lithium battery cathode materials, maintaining optimal separation performance at all times.
3. All exposed components of the equipment are prohibited from using copper, zinc and other such materials. Exclusive components specialized for lithium battery cathode materials are adopted for all exposed parts, with strict quality inspection implemented. The copper and zinc content of all components meets the specified content requirements for lithium battery cathode materials
4. It is available in a fully stainless steel housing to meet the stringent requirements of users at the installation site.

ZR0602-C型抽屉式除铁器

ZR0602-C drawer type iron remover



概述：

抽屉式除铁器被广泛应用于陶瓷、化工、塑料、橡胶、染料、食品、制药、矿业、环境保护等领域，适用于干燥的粉末状、片状、颗粒状材料中清楚铁磁性杂质。

Overview:

Drawer-type permanent magnetic iron remover is widely used in ceramics, chemicals, plastics, rubber, dyes, food, pharmacy, mining, environmental protection and other fields. It is suitable for removing ferromagnetic impurities in dry powder, flake, and granular materials.

性能特点：

1.可设计为强磁型（最大磁场12000GS）和易清理型（最大磁场8000GS）抽屉除铁器，供用户根据需要进行选择；

2.进出口可设计成圆形或方形法兰接口，可以按用户要求方便的安装在各种管道上；

3.普通产品工作温度≤80°C，如用户需要可提供耐较高温度的产品。

4.磁力架可以根据用户要求提供单层、双层或多层；

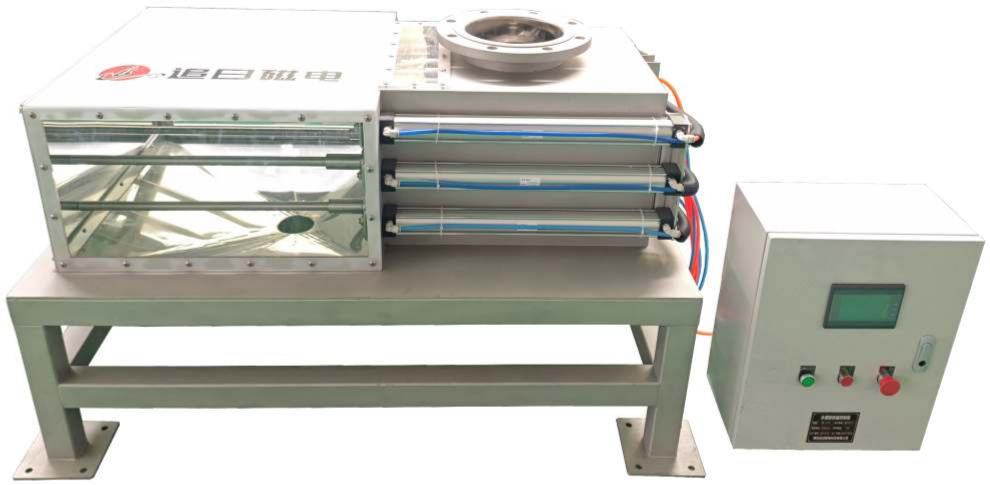
5.抽屉材料有304和316L不锈钢可供选择。

Features:

1. It can be designed as a strong magnetic intensity type (maximum magnetic field intensity 12000GS) and easy-to-clean (maximum magnetic field intensity 8000GS) drawer magnetic iron remover for users to choose according to their needs;
2. The inlet and outlet can be designed as round or square flange interface, which can be conveniently installed on various pipelines according to user requirements;
3. The working temperature of ordinary products is less than or equal to 80°C, and products with higher temperature resistance can be provided if the user needs.
4. The magnetic separation stand can provide single-layer, double-layer or multi-layer according to user requirements;
5. The drawer enclosure materials are available in 304 and 316L stainless steel.

ZR2510系列抽屉式自卸铁干法粉料除铁器

ZR2510 Series Drawer-Type Self-Discharging Iron Dry Powder Magnetic Separator



产品概述：

抽屉自卸铁粉料除铁器系列产品是针对粉料类材料设计，适用于锂电池正负极材料、非金属矿、陶瓷、化工塑料、橡胶、染料等领域，用于干性的粉末状，片状，颗粒状等材料中清除铁磁性杂质。

Product Overview:

The Drawer-Type Self-Discharging Iron Powder Magnetic Separator series is designed for powder materials and is suitable for industries such as cathode and anode materials for lithium batteries, non-metallic minerals,ceramics, chemical plastics, rubber, dyes etc. It is used to remove ferromagnetic impurities from dry powdered, flaky, and granular materials.

性能特点：

抽屉自卸铁粉料除铁器，突破了常规人工清理的繁琐工序，其自动程序控制，自动除磁程序带来便捷，磁性物质捕捉能力强，除铁效果明显，程序操作循环良好，针对特别行业要求，所有接触物料或裸露部件材质不含铜、铁、锌材质。

Features:

The Drawer-Type Self-Discharging Iron Powder Magnetic Separator overcomes the cumbersome manual cleaning process of conventional equipment. It features automatic program control and an automatic iron removal process for enhanced convenience. With strong magnetic particle capture capability. it delivers significant iron removal performance and a well-designed cyclic operation.To meet the requirements of specific industries, all components that come into contact with materials or that exposed in air do not contain copper, iron, or zinc.

设备操作说明：

1.首先检查设备的控制线路电源、所有接头、紧固件是否正常。

2.送电后控制器电源指示灯会亮起，此时设备进入待工状态;

点击自动模式，设备进入自动运行状态，

设备启动→气缸归位→设备充磁→开始进料→一组气缸启动→一组气缸归位→二组气缸启动→二组气缸归位(依次循环)

Equipment Operation Instructions:

First, check the control circuit power supply, all connectors, and fasteners to ensure they are in normal condition.
After power is supplied, the controller power indicator will light up, indicating that the equipment is in standby mode.
Press the automatic mode button, and the equipment will enter automatic operation.
The operation sequence is as follows:
Equipment start → Cylinder returns → Magnetization → Start feeding → First group of cylinders activates → First group of cylinders returns → Second group of cylinders activates → Second group of cylinders returns (cycle repeats).

ZR0603-G型流体管道除铁器

ZR0603-G Type Fluid Pipeline Magnetic Separator



强磁型 strong magnetic type



易清洗型 easy cleaning type

■ 概述：

流体管道除铁器，又叫磁性流体除铁器或者磁性流体过滤器，应用于流体，半流体等不同粘性的流体物料中，去除铁杂质和其它铁磁性微粒，使物料保持清洁，同时又起到保护下游生产设备的作用。

Overview:

Fluid Pipeline Magnetic Iron Separator, also known as magnetic fluid separator or magnetic fluid filter, is used for removing iron contaminants and other ferromagnetic particles from fluids, semi-fluids, and other viscous fluid materials. It keeps the material clean while also protecting downstream production equipment.

■ 特点：

1.为适应各种不同的使用条件，我公司开发了多种不同类型的流体除铁器；
2.可设计为强磁型（最大磁场12000GS）和易清洗型（最大磁场8000GS）用户可根据需要进行选择；
3.标准工作温度≤80°C，特殊要求下，可提供耐较高温度的产品；
4.采用法兰、卡箍、螺栓或者快速释放夹扣等设计，可以轻松安装，取出和清理磁性部件；
5.管道材料有304或者316L不锈钢可选；
6.合理的结构设计，确保最好的除铁效果的同时，不妨碍物料的流动；
7.压力使用要求或者其他特殊要求，可根据客户要求设计。

Performance Features:

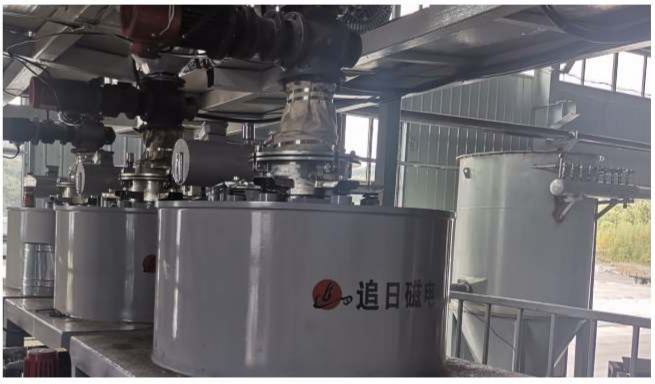
1.To accommodate various operating conditions, our company has developed multiple types of fluid magnetic separators.
2.Available in high-intensity magnetic type (maximum magnetic field: 12,000 GS) and easy-to-clean type (maximum magnetic field: 8,000 GS), allowing users to choose according to their needs.
3.Standard operating temperature ≤80°C; products capable of withstanding higher temperatures are available for special requirements.
4.Designed with flanges, clamps, bolts, or quick-release clamp mechanisms, enabling easy installation, removal, and cleaning of magnetic components.
5.Pipe materials available in either 304 or 316L stainless steel.
6.Reasonable structural design ensures optimal iron removal efficiency without impeding material flow.
7.Pressure requirements or other special specifications can be customized according to customer needs.

使用现场 Use site

















潍坊追日磁电科技有限公司

Weifang Zhuiri Magnetoelectric Technology Co.. Ltd

地址:山东省潍坊市临朐东城街道营七路16001号

电话/传真:0536-3152410　　邮编:262600

网址:www.zhuiri.cn(中文网)www.zhuiri-machine.com(英文网)

E-mail:zhuirijidian@126.com

Address：No. 16001, Yingmie Road, Dongcheng Subdistrict, Linqu County,
Weifang City, Shandong Province, China

Tel/Fax No.:0536-3152410　　POST CODE :262600

Web site:www.zhuiri.cn (Chinese) www.zhuiri-machine.com (En)

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