



A sole subsidiary of SOUTHWEST MAGNETECH



High efficiency magnetic separation,  
High quality materials



Stock Code:920061

COMPANY

INTRODUCTION



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## CATALOG

1. Company profile
2. Featured Products
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# 01 Company Profile

1. Focus on **Magnetic products** Since 2003
2. Occupy + 28000m<sup>2</sup>
3. Staff 180+, include engineer 35+
4. Standard Products: 1000+
5. Serviced customer : 3500+
6. Listed on BSE ,Stock no 836961 ( 920061 ) in Dec 2023
7. Patent: 100+
8. ISO9001 14001 45001 Certified
9. ROHS compliance
10. SAP System was adopted since 2013
11. Registered capital:70.79 Million CNY
12. Sale amount up to 190 million CNY in 2023
13. Having three wholly-owned subsidiaries , one branch and two **equity-invested factories**
  - Mag Spring**
  - Ciyun Technology**
  - Souwest Magnetech Xiamen Branch**
  - Beifang Zhaobao Magnet Factory**
  - Shuwang Data Service**
  - Zongyi Driver Technology**



Listed on BSE (Stock No. 836961) in 2023 – Leading Innovation in Magnetic Separation and Precision Removal of Micron/Sub-Micron Ferromagnetic Contaminants





A Proven Team, Serving 3,500+ Customers Worldwide Since 2003, Expert in Iron Metal Removal from Hundreds of Different Materials.

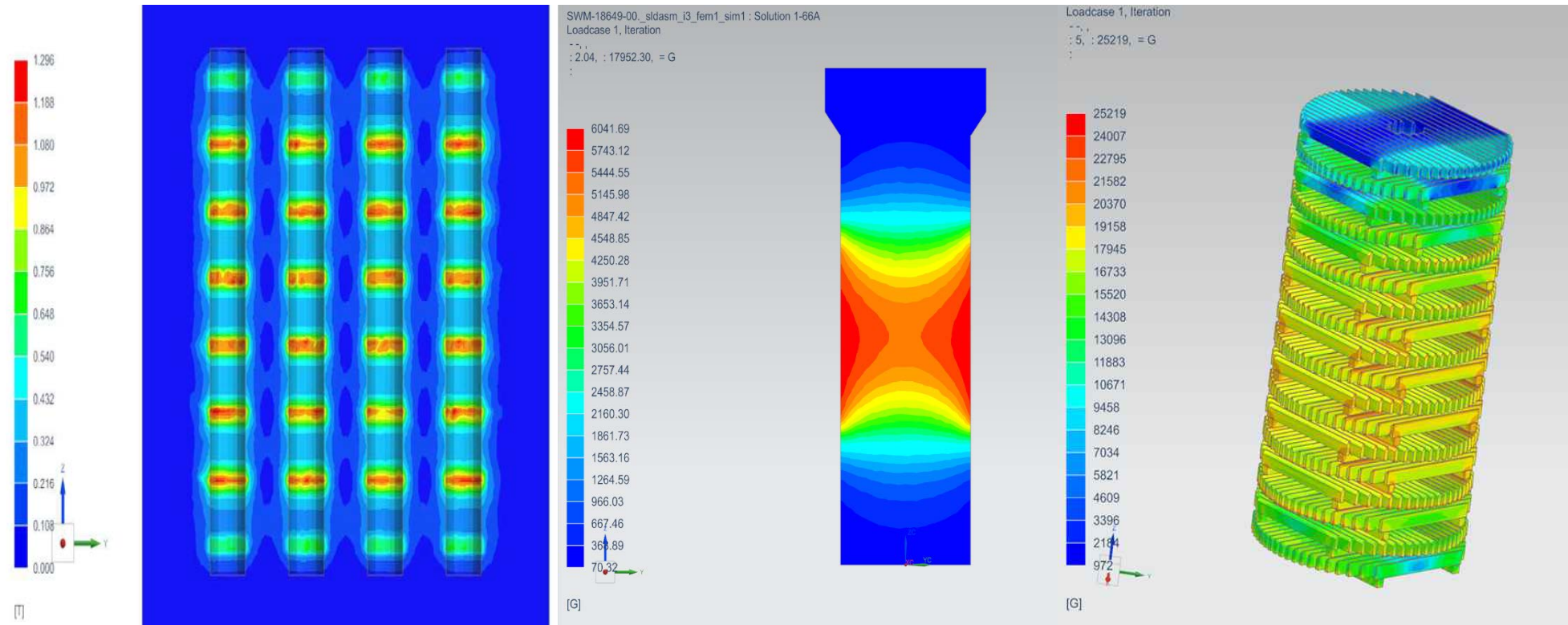
Staff 200+, include engineer 35+





# Precision Engineering & FEA-Optimized Designs

Transforming 3D Modeling Foundations into High-Fidelity Magnetic Simulation Reports and Engineered Excellence.



# ISO9001 14001 45001 Certified

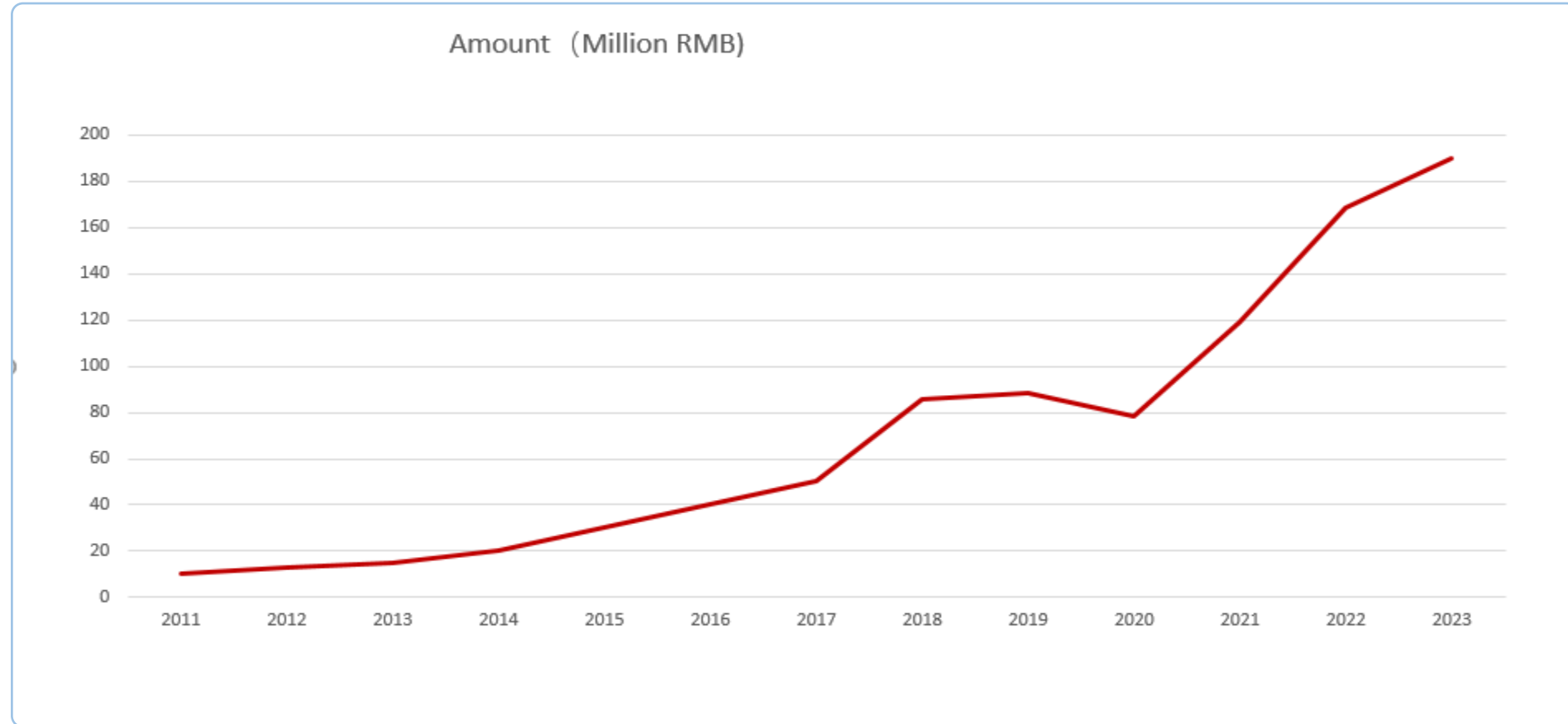


Patent: 100+





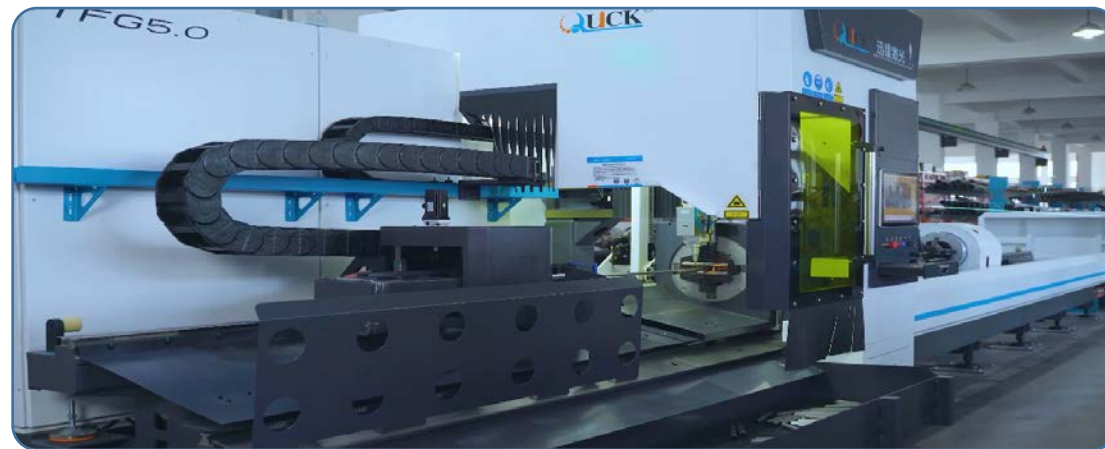
# Sales Amount from 2011



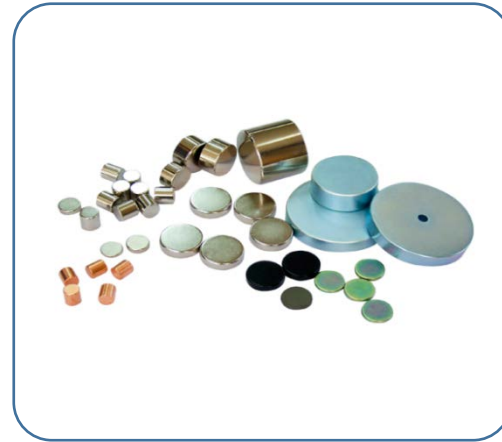
# Factory and Facility



# Factory and Facility

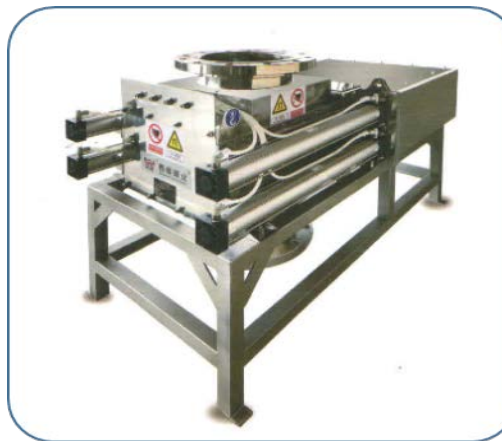


# 02 Mainly Products and Featured Products



NdFeB Magnets

Magnetic Assembly

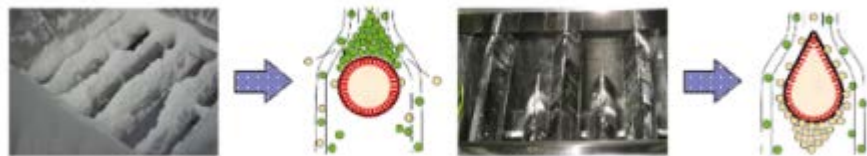


Magnetic Separator

## Pear Shape Magnetic bar for Accumulation-prone Materials



- 2500Gs -13000Gs
- Seamless tube sus304 or Sus316L



- Max working temp 300 °C



## Magnetic Trap for Liquid



- 80000-14000Gs
- Food Grade available
- Easy cleaning available
- Famous customer: Many Brand Customers for Battery Materials.

# Rotary Grate Magnets For Clogging and Bridging Materials



- 10000-14000Gs, Tight Seal, Prevents Material Leakage with 2kg Pressure
- Food grade available
- Special design can avoid risk of secondary contamination during cleaning
- Serviced customers from Japan and Germany, and Many brand customers of Battery Materials.

# Automatic Self Cleaning Grate Magnets for Powder



## Market-Proven Reliability

**5,000+ Industrial Deployments** Globally verified in high-standard battery, chemical, and food production lines.



## Patented Sealing & Durability

**Multi-Pressure Leak Prevention** Patented double-seal structure **prevents powder migration** under **positive**, negative, or atmospheric pressures.

**Extended Service Lifespan** Rigid metal framework paired with specialized scraping rings minimizes mechanical wear.



## Continuous Automated Purification

**Non-Disruptive Online Cleaning** Sequential multi-layer cleaning operates **without interrupting raw material feeding.**

**Minimized Material Retention** Integrated auxiliary vibration modules optimize powder flow and mitigate raw material loss.



## Intelligent Control & Low OPEX

**Seamless Automation Integration** Industrial PLC + HMI touchscreen allows programmable local control and factory DCS adaptation.

**Eco-Efficient Power Consumption** Actual average power consumption is **under 0.04 kW**, aligning with corporate carbon-reduction initiatives.

# Automatic Magnetic Liquid Filter



- 8000-10000Gs
- Automatic self-cleaning
- **Working Pressure:**  $\leq 1.0$  MPa or  **$\leq 1.6$  MPa** (optional)
- Unique Cleaning Structure Design for Exceptional Results , Customer feedback: Materials are not easily deposited and have a long maintenance cycle, Superior to peers
- **Market-Proven Reliability**  
**5,000+ Industrial Deployments** Globally verified in high-standard battery, chemical production lines.



# Electromagnetic Separator for Dry or Wet materials



## Market-Proven Reliability

**500+ Industrial Deployments** Globally verified in high-standard battery, chemical production lines.



## Magnetic Field & Interception

- **FEA Peak Field: 23,000–24,000 GS** Finite Element Analysis verified peak magnetic intensity, ensuring highly efficient capture of micron-scale weak magnetic particles.
- **Industry-Leading Magnetic Zone Height** Maximizes the effective functional area to extend material magnetization time and increase capture rates.
- **Zero Thermal Field Decay** Constant-field control maintains magnetic performance between cold and hot operational states with virtually no attenuation.
- **High-Durability Coils** Engineered with advanced insulation materials, delivering high-voltage resistance and robust protection against dielectric breakdown.



## Purging & Automation

- **Symmetrical Dual-Vibrator Layout** Deploys balanced, wide-amplitude mechanical vibration to ensure complete residue mobilization and maximum slag discharge during demagnetization.

# Electromagnetic Separator for Dry or Wet materials



- **Seamless Remote Integration**

Features industrial PLC infrastructure supporting **Remote DCS/Central Control System Integration** for unattended, automated cycling.

-  **Fluidization & Internal Flow**

- **Seamless Screen Welding & Maximum Rigidity**

Utilizes proprietary dry-powder screens with a fully welded, zero-leak-point design to establish robust structural integrity.

- **Streamlined Powder Flow**

Optimized internal geometries reduce material drag and friction coefficients, ensuring fluent product passage and low bridging risk.

-  **Enclosure & Cleanliness**

- **Hermetic Multi-Pressure Pipeline Flow** Fully enclosed flow path mitigates particulate emission under both positive and negative pressure pneumatic conveying systems.

- **Contamination-Free Engineering** All product-contact components utilize certified inert, high-grade stainless steel to ensure zero secondary chemical or mechanical contamination.

# Lab & Pilot Scale Slurry Electromagnetic Separator



## **Magnetic Performance & Viscosity Adaptation**

- **FEA Peak Field: 17,000–18,000 GS** ensuring high-efficiency extraction of micron-scale weak magnetic particles.

- **High-Viscosity Slurry Compatibility**

## **Plug-and-Play Deployment & Low OPEX**

- **Zero-Commissioning Initialization**

- **3.5 kW Eco-Efficient Power Consumption**

## **Lightweight Matrix & Simplified Maintenance**

- **Ergonomic Lightweight Screens** minimizes manual labor during disassembly and accelerates batch changeovers.

- **Pure-Water Flushing & Rapid**

## **Verified Application Feedback**


- **Proven Multi-Industry Acceptance**



## Self Cleaning Belt Magnetic Separator



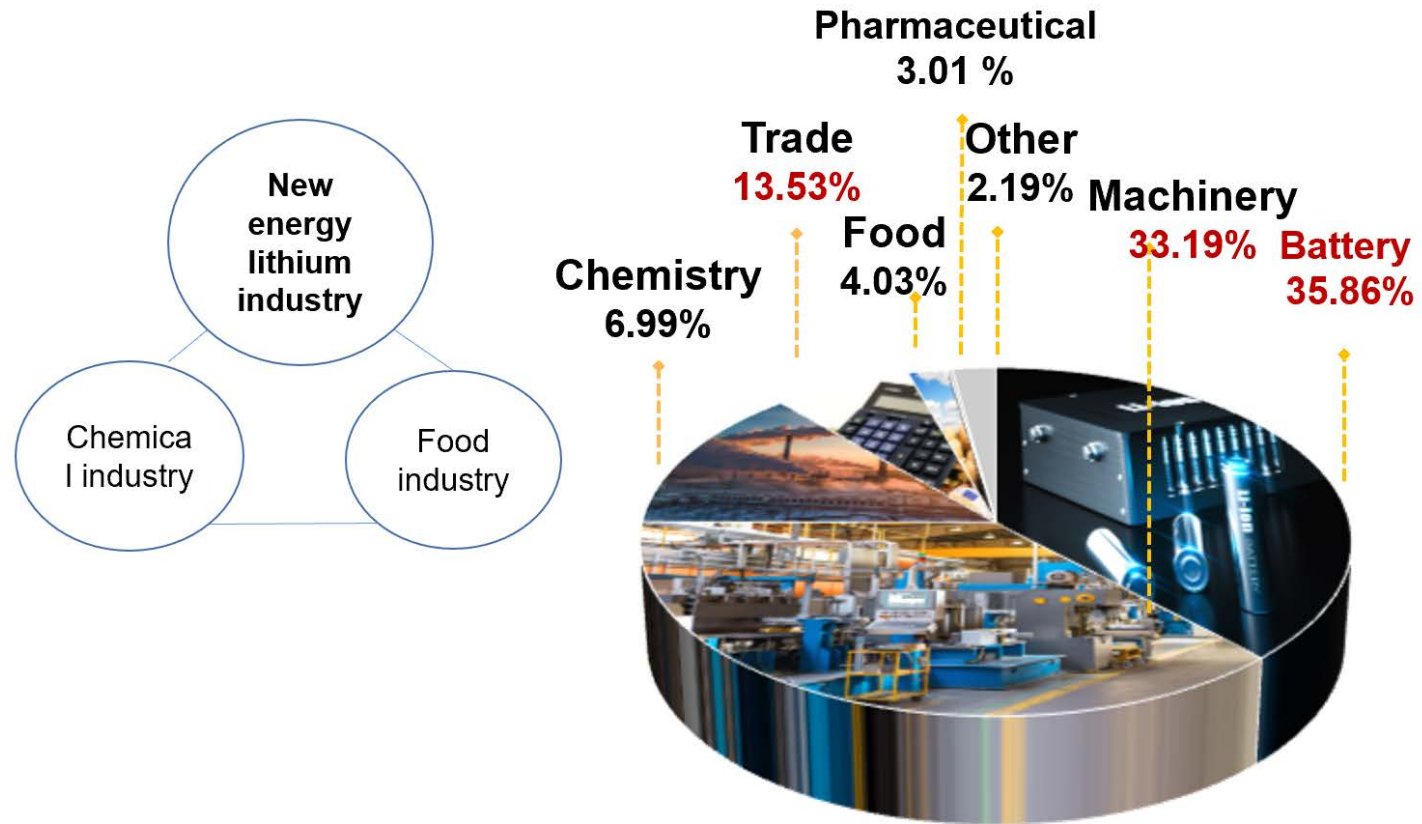
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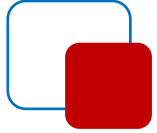


- Pulley with 15000Gs + plate Magnets
- Automatic Self-Cleaning
- Ideal for plastic pellet iron removal



# 03 APPLICATION





# Field Application Cases Of Automatic Powder Magnetic Separator



Iron Phosphate Powder



Positive Pressure



Carbon Black Powder

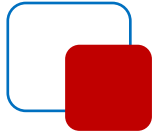


Zirconia Powder



Garlic Clove Material



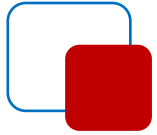


# Automated Magnetic Liquid Filter Field Application Cases



## Lithium iron phosphate production line site





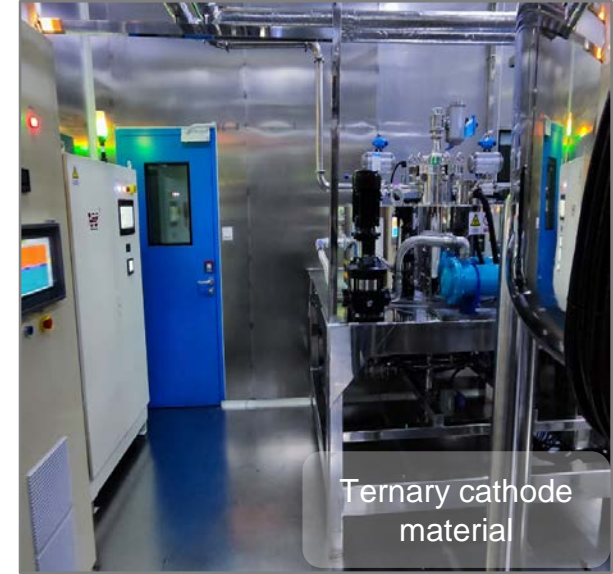
# Electromagnetic Separator Field Application Cases



Lithium iron phosphate



Silicon carbon  
negative electrode



Ternary cathode  
material



Lithium carbonate



Graphite anode



PVDF



## Mission

**Green Magnetic & Intelligent Solution Expert** — delivering trusted purity worldwide through automatic magnetic separation, advancing a greener, smarter, more sustainable industrial future.

*Web: [www.magnetact.com](http://www.magnetact.com) | Email: [act@mag-spring.com](mailto:act@mag-spring.com) | Tel: 0086-574-86666833*

凡经我手 必属佳品  
TO BE, TO BE THE BEST